

2016

RBWH

Research Report



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RBWH

Royal Brisbane and Women's Hospital



Executive Director's Report



Dr Amanda Dines
Executive Director
Royal Brisbane and Women's Hospital

Research is at the heart of every medical breakthrough and with each discovery the lives of people across Australia and around the world are changed forever.

Research is the foundation of excellence in clinical care and education at RBWH. I am incredibly proud of the research capability we are building across our facility.

Every year we make a bigger impact on global health and as I look back at 2016, it is clear it was another successful year for us.

Our researchers were awarded \$42 million in funding to continue their clinical research activity spanning medical, nursing and allied health and almost every speciality—from burns trauma and emergency medicine to pregnancy, cancer and antibiotic resistance.

In 2016, 59 departments at RBWH were actively involved in research. RBWH researchers were also heavily involved in supporting others in their work—getting involved in some 300+ collaborative research projects as well.

Our researchers were acknowledged nationally and internationally through 98 book chapters, receiving 115 awards, delivering 730 oral presentations and were invited to speak at 40 conferences and events around the world.

This growing presence on the research landscape affirms the capability and expertise we are fostering at RBWH and makes us an increasingly sought after research partner for many organisations.

We believe that working together creates an environment for innovation and continuous service improvement and partnership remains a key aspect of our business. Each year our relationships get stronger and we continue to work closely with our partners including Metro North Hospital and Health Service, QIMR Berghofer, Queensland University of Technology, The University of Queensland and Griffith University and interstate universities such as Monash University and University of New South Wales.

By working together we're informing evidence-based care, identifying life-changing improvements in our health services and bridging the gap between research and patient care like never before.

As always, the annual RBWH Healthcare Symposium remains the highlight of our research calendar. The best and brightest researchers and innovators continue to converge on the Herston campus, it is clear that we have built a world-leading research, healthcare and education hub here in Queensland.

Finally, I'd like to thank Professor Lawrie Powell AC for his leadership and commitment to fostering research at RBWH over the past 16 years. Professor Powell is a tireless advocate for research and researchers and his legacy will continue. I welcome Dr Marilyn Banks to the role of Executive Director of Research and look forward to witnessing the work of our researchers and innovators in 2017.

Research Director's Report



Dr Merrilyn Banks
Executive Director Research
RBWH

On 4 March 2016 Professor Lawrie Powell AC retired as Director of Research RBWH after 60 years of service to the Royal Brisbane and Women's Hospital. Professor Powell commenced in 1958 as a Senior Medical Student and he went on to complete his clinical training at the hospital. In addition, Professor Powell's passion for clinical research has rewarded him with numerous national and international awards for his research into liver disease and haemochromatosis.

Professor Powell retired as Director of QIMR Berghofer in 2000 and then commenced his role as Director of Research at the RBWH, establishing a Research Centre which was named the Centre for Advancement of Clinical Research. Professor Powell's tireless work also saw him provide expert guidance and advice through the Research Advisory Committee on behalf of the RBWH and the RBWH Foundation.

On behalf of the RBWH, I would like to commend Professor Powell for his dedication to, and support of, the research community here at the RBWH and highly valued collaborations across the globe.

2016 proved again to be an extremely busy and rewarding year for researchers. The inaugural Metro North Research Awards, which attracted high calibre submissions, rewarded RBWH researchers with six of the seven awards on the night.

- Researcher of the Year – Professor Michael Breakspear (Mental Health).
- Rising Star – Dr Dylan Flaws (Mental Health).
- Promoting Health Minds and Bodies – Professor James Scott (Mental Health).
- Chronic Disease and Community Care – D Helen Healy and the CKD.QLD Collaborative team (IMAC).
- Improving Patient Outcomes in an Acute Care Setting – Professor Alison Mudge (IMAC).
- Integrated Care – Health Service Research – Professor Louise Cullen and the Emergency Cardiology Research Group (CC&CSS).

Congratulations also to all RBWH staff nominated as possible winners of the prestigious awards for research across all clinical specialties and professions.

Also, during 2016 Emergency Physician, Professor Louise Cullen, Cardiologist Professor Will Parsonage and Project Officer Tanya Milburn received the honour for leading the Accelerated Chest Pain Risk Evaluation (ACRE) Project and accepted the prestigious Ko Awatea International Excellence in Health Improvement Award at the APAC Forum, one of the largest healthcare improvement conferences in the world. Our clinicians won an international award for translating their innovative research into clinical practice, enabling faster diagnosis of heart attacks and quicker treatment of patients presenting with chest pain. The project introduced an accelerated diagnostic protocol (ADP) across state emergency departments, providing guidelines to safely and quickly deliver care to patients who are not suffering a heart attack. Professor Cullen said she felt honoured to receive international recognition for the project, and hopes the ADP will become standard practice within ED's Australia-wide.

"This has reduced the demands on our emergency and inpatient services," Professor Cullen said. "We have been able to reassure patients earlier that they have not suffered a heart attack and this has also reduced the total average emergency department length of stay by 34 minutes".

2016 RBWH Symposium

The 2016 RBWH Symposium provided a unique opportunity for our researchers to showcase their work, exchange ideas and collaborate with different groups across Metro North. Award winners for 2016 included:

- Health Services Oral presentation – Professor Adam Scott.
- The Professor Lawrie Powell AC Early Career Award – Nienke Zomerdijk.
- The Professor William Egerton Award for Medical Research – Dr Richard Cheng.
- The Cecilia Brazil Nursing Research Award – Nicole Marsh.
- The Health Practitioners Research Award – Sonia Baker.

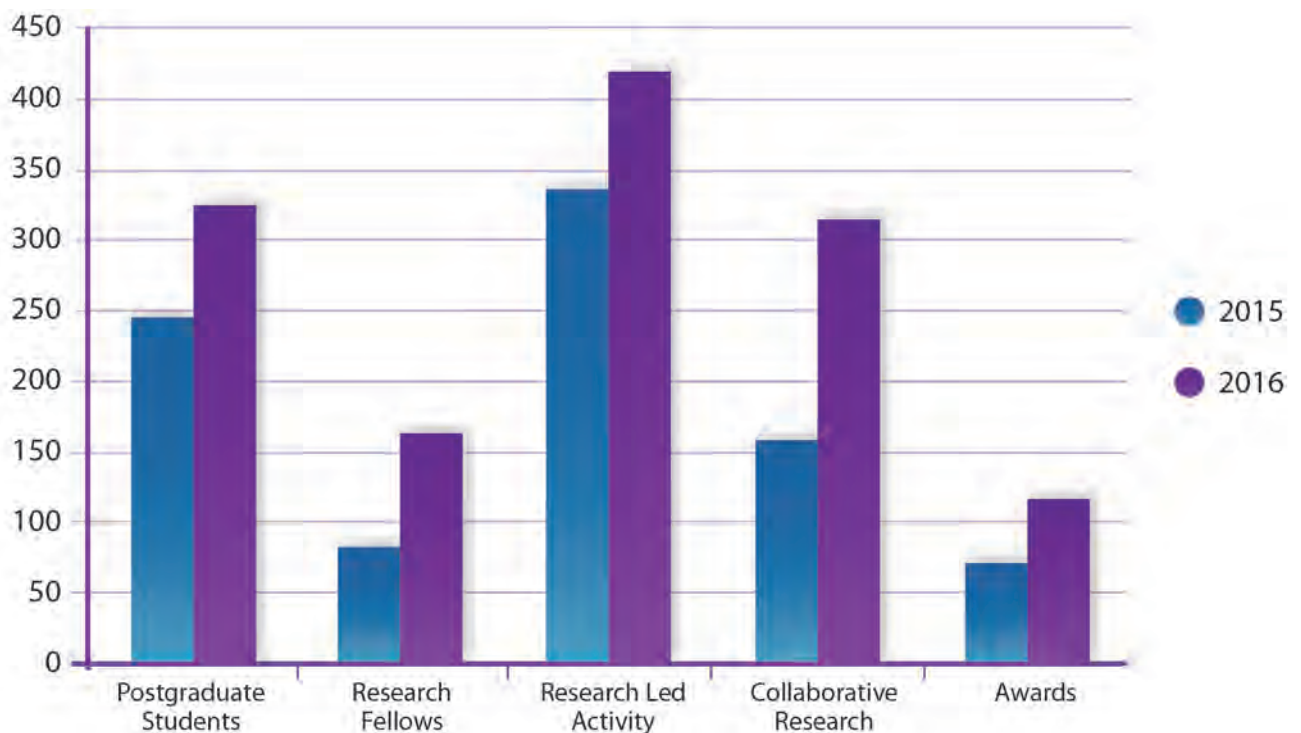
The best overall research award was presented to Clare Burns. Planning for the 2017 RBWH Research Symposium is well underway.

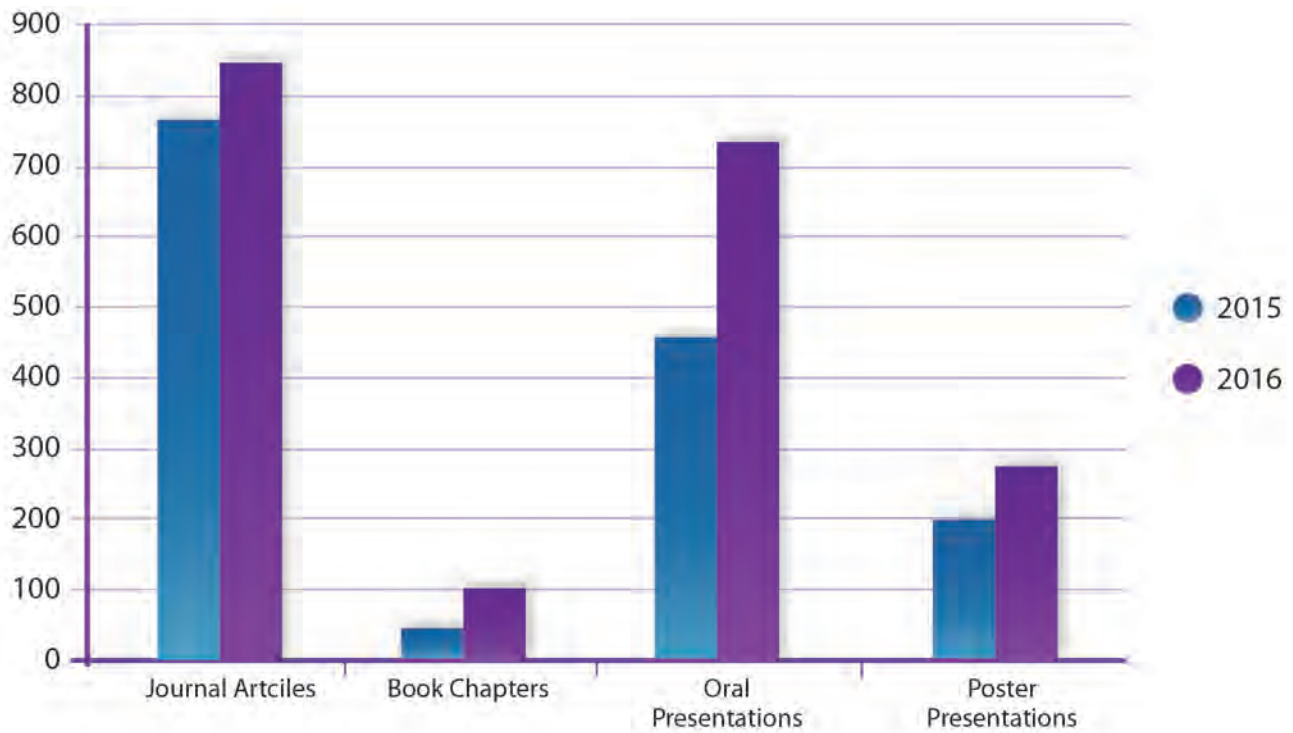
Partnerships

RBWH encompasses on site partnerships with The University of Queensland's Faculty of Medicine, University of Queensland's Centre for Clinical Science, Queensland Institute of Medical Research Berghofer, and Queensland University of Technology. These partnerships encompass the Herston Imaging Research Facility (HIRF), the Australian Centre for Health Services Innovation (AusHSI) and the Centre for Palliative Care Research and Education (CPCRE). In addition, during 2016, RBWH worked collaboratively with the Brisbane Diamantina Health Partnership strengthening its support of BDHP's excellence in clinical care, teaching and research. The strength of these onsite partnerships with RBWH attracts and retains highly cited researchers to our campus.

Publications and Presentations

Overall papers published across the globe by RBWH Researchers during 2016 numbered 853, a reputable effort for our clinical researchers. Increases were also noted in book chapters, poster presentations and oral presentations.

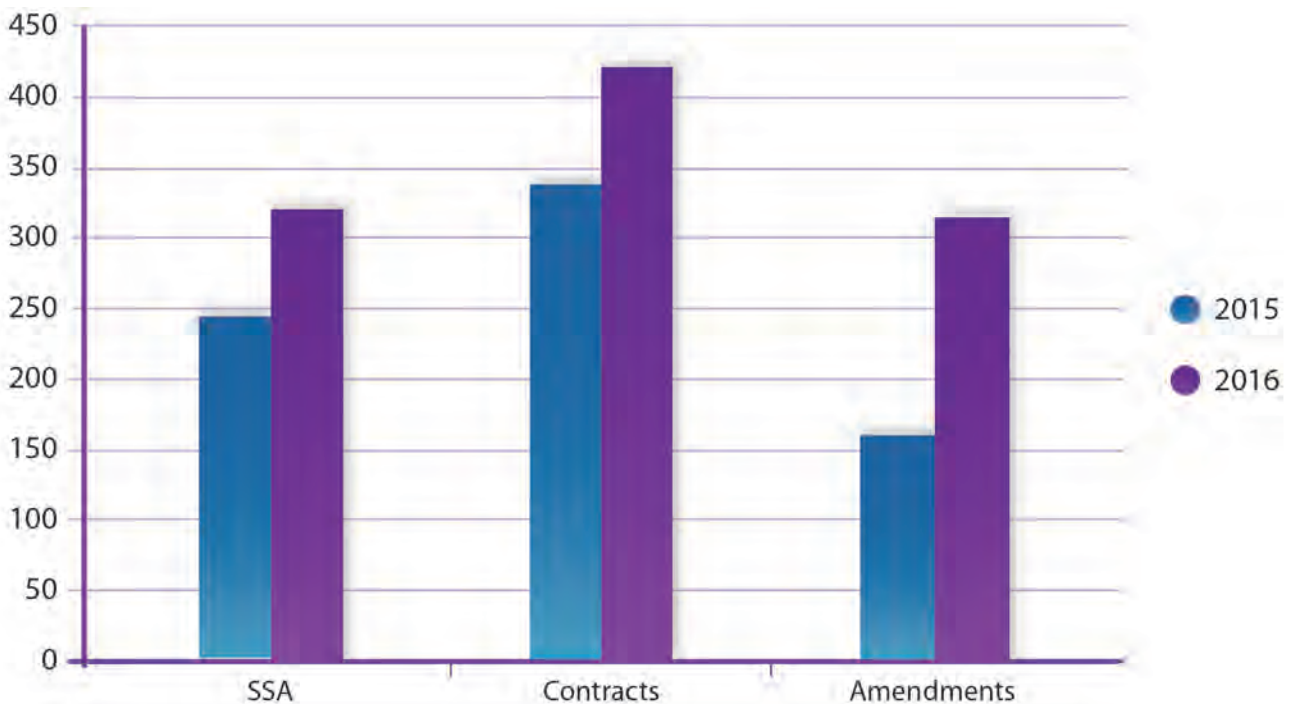




Studies – Research Governance Office.

2016 proved to be a particularly busy year for the RBWH Research Governance Office team who actioned 288 Site Specific Applications, (SSA's) 352 Contracts and 406 Amendments.

The RBWH Human Research Ethics Committee reviewed 221 studies and the HREC Chairperson also exempted 105 Audit/Quality Improvement from reviewed requests.



RBWH Human Research Ethics Committee's Report

Associate Professor Sue Patterson
Acting Chair
RBWH HREC (EC00721)

The National Statement on Ethical conduct in Human Research (The national Statement published by the National Health and Medical Research Council (NHMRC) obliges all institutions and researchers to ensure the safety of all those involved in research. One of the mechanism through which safety is promoted is review of all proposed studies involving human participants by an appropriately constituted Human Research Ethics Committee (HREC). As one of more than 200 HRECs registered by the NHMRC, the RBWH HREC plays an integral prole in ensuring research across Australia, but particularly within the RBWH, is ethically acceptable.

As required by the National Statement, the RBWH HREC comprises people from various walks of life who draw on diverse experiences and expertise to assess each proposal in accordance with relevant standards and guidelines. The 30 members, appointed for their knowledge, qualities and experience, and not as representatives of any organisation, group or opinion, include researchers, clinicians, scientists, lawyers, I.T. experts, ministers of religion and 'lay' people.

Each member contributes around 2 days per month voluntarily, reviewing studies for discussion at monthly meetings which can run for several hours. In addition to research proposals submitted for full ethical review, members may be asked to consider other submissions outside the committee structure, to enable expedited review of audit, evaluation or quality assurance projects which may be exempt from full HREC review. The HREC, through the chairperson and office staff, also provide advice and support to both experienced and novice researchers to facilitate the integration of research and practice.

In 2016, the RBWH HREC reviewed 221 studies with an additional 105 quality improvement and evaluation projects reviewed and considered exempt from review by the Chairperson. None of this work would be possible without the exceptional support of the HREC Office Coordinator Ann-Maree Gordon and Assistant coordinator, Ulani Hearn, who do an amazing job managing applications and enquiries. Their detailed and comprehensive knowledge of legislation, regulations and process, and willingness to go the extra mile to support researchers, are critically important to the excellent reputation of the RBWH HREC.

RBWH and RBWH Foundation Research Advisory Committee's Report



Professor Gerard Byrne
Chair
Research Advisory Committee

The Research Advisory Committee (RAC) is responsible for adjudicating applications for research Scholarship and Grant funding by the RBWH and by the RBWH Foundation. The RAC has a diverse membership of senior researchers and clinicians representing the medical, nursing and allied health streams. RAC members provide their services on an honorary basis.

In 2016 the RBWH Private Practice Trust Fund provided \$1,500,000 for competitive Scholarships and research Grants and the RBWH Foundation provided \$329,000 for competitive research Grants for the calendar year 2016. The RAC gives priority to Scholarships over Grants, and those postgraduate research students who obtain competitive external support (e.g. from NHMRC or ARC) are eligible for top-up funds.

The RAC received 19 applications for postgraduate Scholarships, of which 14 were successful (74% success rate). Scholarships were awarded to both MPhil and PhD students. Five of the 15 scholars were enrolled part-time. Students were enrolled at the University of Queensland, Queensland University of Technology and Griffith University. Their clinical disciplines included nursing, allied health and medicine. The total value of Scholarships was \$393,314.28.

In addition, the RAC received 124 applications for research Grants, of which 36 were successful (29% success rate). Nine research Grants were supported by funds from the RBWH Foundation and 27 research Grants were supported by funds from the RBWH Private Practice Trust Fund. The total value of research Grants was \$1,343,202. The disciplines represented among successful grantees included medicine, surgery, psychiatry, imaging, nursing, allied health and technical support.

I thank the RBWH Private Practice Trust Fund and the RBWH Foundation for their continuing support of research on campus.

2016 RAC Membership:

Dr Merrilyn Banks PhD
*Executive Director of Research,
Research Services, RBWH*

Dr Roger Allison MBBS, D Obst, MRCP, FRCP, FRACR, FACHPM
*Director of Oncology,
Cancer Care Services, RBWH*

Ms Kaelah Bosanquet CA, BBus(Accounting), Grad Cert (Bus Admin)
*CFO,
RBWH Foundation*

Professor Gerard Byrne MBBS, BSc (Med), PhD, FRANZCP
*Head, Academic Discipline of Psychiatry,
UQ and Director of Geriatric Psychiatry,
RBWH*

Adjunct Associate Professor Ian Coombes
*BPharm, MSc, PhD
Director of Pharmacy,
RBWH*

Adjunct Associate Professor Robyn Fox
*RN, RM, BEd, MNL, PhD, FACN
Nursing and Midwifery Director of Education,*

Professor Murray Mitchell DPhil, DSc, FRSNZ
Director, UQ Centre for Clinical Research

Professor Grant Ramm BSc, PhD
*Group Leader, Hepatic Fibrosis Laboratory,
QIMRB*

Professor Claire Rickard RN, BN, GradDip (CritCare), PhD, FAAHMS,
FACN
*NHMRC Centre of Research Excellence in Nursing Interventions
Griffith Health Institute Centre for Health Practice
Innovation*

Dr Peter Roeser MD, FRACP, FRCP –
*Retired last year, Retired Physician,
RBWH*

Professor Jenny Strong PhD, MOccThy, BOccThy
*Former Head of the Department of Occupational Therapy UQ and
Professor Emeritus
UQ*

Professor Robert Tindle BSc, PhD
*Retired Director Sir Albert Sakzewski Virus Research Centre, RCH
and Clinical Medical Virology and Professor Emeritus
UQ*

Mr Peter Treseder AM, KSJ, CCEO, FAICD, FAIM, FIIDM, CFRE, MBA
*CEO,
RBWH Foundation*

Dr Jacobus Ungerer MBChB, MMed (Chem. Path.), MBL, FRCPA
*Director, Chemical Pathology,
Pathology Queensland*

Professor Joan Webster RN, RM, BA, PhD
*Director of Nursing Research,
RBWH*

Dr Ian Wilkey MBBS, BSc, LLB, FRCPA, FAFPHM
*Former Medical Superintendent
RBH*

Herston Imaging Research Facility

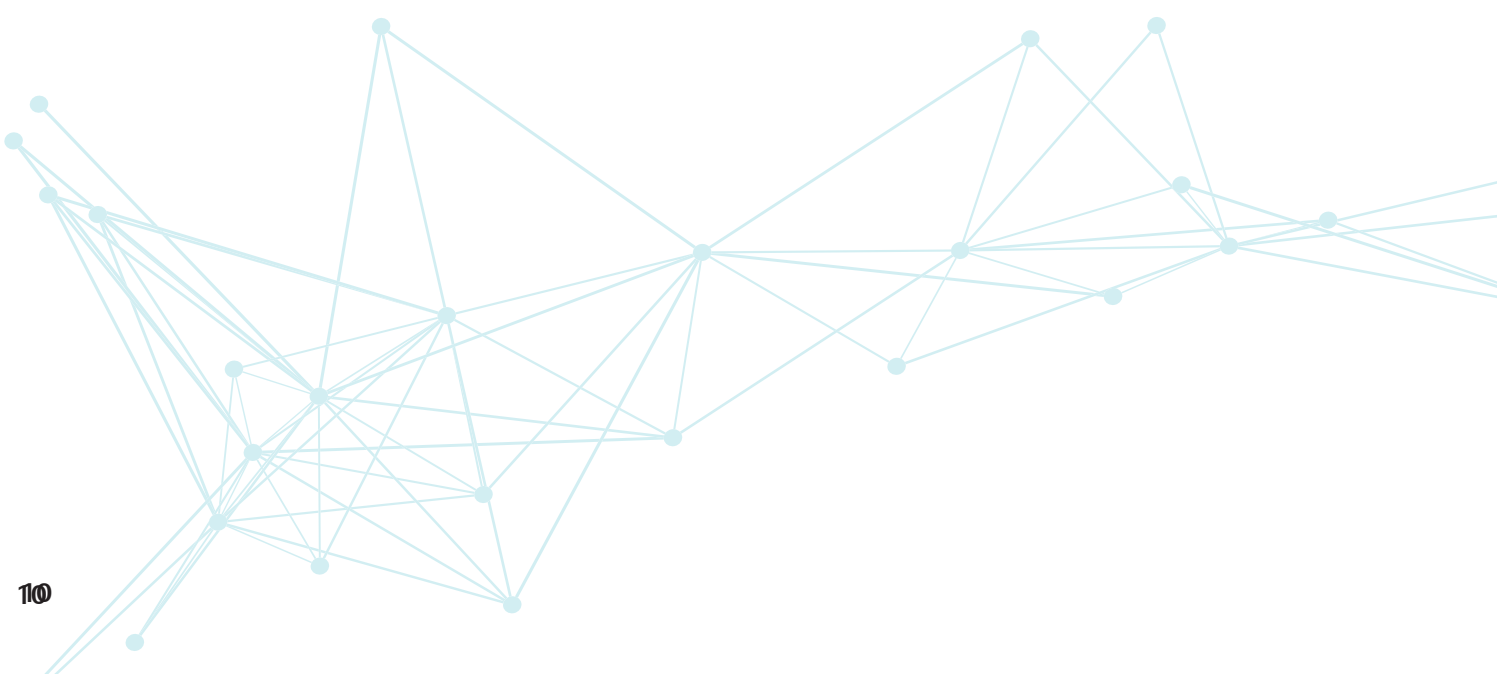


Associate Professor Paul Thomas
Director
Herston Imaging Research Facility

The Herston Imaging Research Facility (HIRF) is a dedicated facility for human imaging research here on the RBWH campus. The facility houses one of only four combined PET and MR scanners in Australia, a 3T Prisma MRI scanner and a PET/CT scanner, along with supporting infrastructure. HIRF is operated as a unit of RBWH, using RBWH radiographers and nuclear medicine technologists to operate the scanners. Being a standalone facility separate to the clinical radiology and nuclear medicine departments, HIRF offers greater access and booking certainty to scanners than is possible in a busy clinical environment, and makes a more pleasant place for volunteers to attend. For researchers, the availability of three cutting edge collocated scanners opens up research possibilities not available elsewhere, as participants can be moved quickly from scanner to scanner so that the optimal scanner is used to ensure the best possible images to address the research questions.

HIRF is a collaboration of four partners: Queensland University of Technology, University of Queensland, Metro North and Queensland Institute of Medical Research-Berghofer. Researchers from all of the partners, as well as external institutions, collaborate on imaging research at HIRF. HIRF also collaborates closely with the radiopharmaceutical laboratory of the nuclear medicine department at RBWH to make available a wide variety of PET tracers to researchers for use at HIRF.

2016 marked the first full year of operations of HIRF and saw a significant ramp up in research studies, such that there were over 20 projects that had commenced or were in the pre commencement phase by the end of 2016. HIRF supports the imaging component of a variety of sponsored commercial research trials, but most studies performed at HIRF are investigator initiated. The projects cover a wide range of disciplines, with particular expertise in neuroimaging and cancer research.



Brisbane Diamantina Health Partners



Ms Areti Gavrilidis
General Manager
Brisbane Diamantina Health Partners



Brisbane Diamantina Health Partners (BDHP) Queensland’s first academic health science network, brings together leading universities, research institutions and healthcare providers focussing on research, clinical care, and education (and please see BDHP infographic).

Our ten partners, based in south-east Queensland, aim is to integrate innovative research, training and healthcare practice to enable rapid translation of evidence-based research and to deliver the highest quality healthcare to our community. “BDHP’s focus is bringing innovative research from the laboratory to patients as efficiently and effectively as possible” Ms Areti Gavrilidis General Manager BDHP.

The Brisbane Diamantina Health Partner members are Metro North Hospital and Health Service, Metro South Hospital and Health Service, Children’s Health Queensland Hospital and Health Service, Mater Health Services, The University of Queensland, Queensland University of Technology, Translational Research Institute, QIMR Berghofer Medical Research Institute, Queensland Department of Health, and Brisbane South PHN. As part of Metro North Hospital and Health Service, the Royal Brisbane and Women’s Hospital plays an important role in Brisbane Diamantina Health Partners. The hospital is providing quality research that is contributing to the strategic objectives of the partners.

Brisbane Diamantina Health Partners has nine key focus areas where the translation of innovative research into clinical practice is leading to better healthcare for Queenslanders. These areas are:

- Ageing.
- Brain and mental health.
- Cancer.
- Chronic disease.
- Evidence and innovation in clinical care and recovery.
- Immunity, inflammation, infection.
- Maternal and child health.
- Skin and Skin Cancer.
- Trauma, critical care.

Late last year the BDHP submitted an application to the National Health and Medical Research Council (NHMRC) for recognition as an Advanced Health Research and Translation Centre (AHRTC) and were shortlisted for an interview. The interview involved a contingency of six BDHP members representing the partners in front an international panel to address predetermined criteria.

We are looking forward to a positive announcement on the outcome of the application in the near future.

For further information about Brisbane Diamantina Health Partners please visit the BDHP website www.brisbanediamantina.org.au/

Griffith University



Professor Suzanne Chambers
Director
Menzies Health Institute

The Menzies Health Institute Queensland (MenziesHIQ) at Griffith University and the Royal Brisbane Women's Hospital (RBWH) have maintained a strong working relationship into 2016. Ground breaking clinical research has continued to form the foundation of this partnership with clinical trials and joint staff appointments in place to support improvements in patient care.

The partnership between MenziesHIQ and the RBWH founded the Alliance for Vascular Access Teaching And Research (AVATAR) group in 2007. AVATAR conducts world leading research improving access to veins and arteries for medical treatment.

This this alliance has resulted in over \$10 million in research funding, 150+ publications including many large randomised controlled trials, 20+ researchers trained at Honours, Masters or PhD level, and numerous clinical nurses and doctors participating in the research. This work is referenced in global clinical practice guidelines such as those of the US Centers for Disease Control, the UK's NHS Infection prevention Guidelines and the international Standards of Infusion Therapy.

Griffith University's MenziesHIQ will continue to collaborate with the RBWH to generate translatable research outcomes that improve health and wellbeing for patients and communities alike.

Pathology Queensland



Prof Sunil Lakhani
Executive Director Research

Pathology Queensland recognises the key role of research in the delivery of good clinical care. It has recently established a Research Office – with the appointment of Professor Sunil Lakhani as Executive Director Research. Prof Lakhani participated as a ‘capability expert’ on The National Research Infrastructure Roadmap 2016, chaired by the Chief Scientist, Dr Alan Finkel AO (www.education.gov.au/2016-national-research-infrastructure-roadmap) Collaborative initiatives include (but not limited to):

Anatomical Pathology:

Breast Cancer (Sunil Lakhani) in collaboration with the RBWH Breast Surgery, Neurosurgery, Oncology and Radiology. The work is supported by NHMRC Program and Project grants to UQ/QIMR collaborative and has resulted in publications in all the major scientific and clinical journals. A pilot clinical trial to test a PET-drug conjugate uptake in Brain Metastases is about to begin at The Herston Imaging Research Facility (HIRF).

Lung cancer (Sunil Lakhani, Mahendra Singh, Laxmi Nandkumar) project with Dr David Fielding and colleagues in UQCCR and QIMRB to develop next generation sequencing analysis of cytology smears from endoscopic aspirates.

Chemical Pathology:

The Chemical Pathology R&D Unit (Jacobus Ungerer and colleagues) supports collaborative research to improve patient care. Activities include diagnostic testing, data acquisition, laboratory bench work and development of new test methodology. Core technologies include robotics, mass spectrometry and immunochemistry with collaborations in cardiology, emergency medicine, intensive care, renal disease, gastroenterology and endocrinology. The work resulted in peer-reviewed publication and changes to clinical practice.

Microbiology:

The Microbiology group (Graeme Nimmo and colleagues) participate in the Australian Group on Antimicrobial Resistance surveillance programs for *Staphylococcus aureus*, *Enterococcus* and gram-negative bacteraemia – these are a major component of Australia’s response to antimicrobial resistance (www.agargroup.org).

Prof Nimmo is a member of the editorial boards of *Pathology*, the *European Journal of Clinical Microbiology and Infectious Disease* and the *Global Journal of Antimicrobial Resistance* and is chief investigator in the Centre of Research Excellence in Reducing Healthcare Associated Infections.

Haematology:

The Pathology Qld Transfusion Haematology department (John Rowell and colleagues) is assisting with two studies (FEISTY, PROPHICCY) that measure coagulation status using viscoelastic haemostatic assays, which are Bank) at RBWH since June 2014 performed on ROTEM machines. ROTEM testing has been provided by the transfusion laboratory (Blood Genetic Pathology):

Pathology Queensland and its partners have recently been awarded the capability project ‘*Integrating next generation genomic platforms into routine clinical practice*’ by the Queensland Genomic Health Alliance. This will further cement the role that pathology plays at the RBWH and across Queensland.

QIMR Berghofer Medical Research Institute



Professor Frank Gannon
Director and Chief Executive Officer
QIMR Berghofer Medical
Research Institute

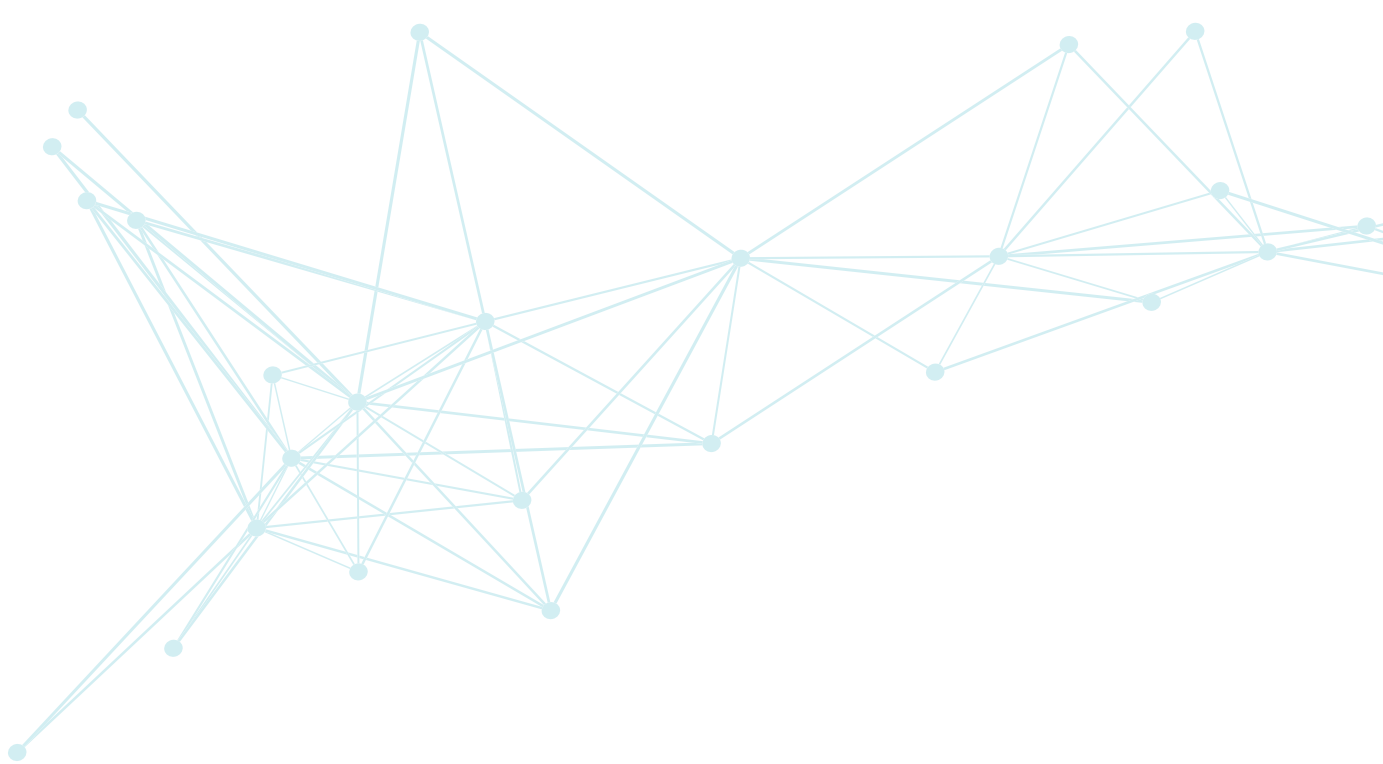
Collocation at Herston could mean that there are two entities that are physically adjacent but that was the extent of the interaction. However, each year it is clear that the collocation of QIMR Berghofer and the RBWH is the basis of ever-increasing and mutually beneficial cooperation and collaboration.

As Queensland's medical research institute with a statutory responsibility to improve the health of Queenslanders, we are very aware that we are responding to the challenges that come from clinicians (and society generally) as we try to provide solutions to these problems. We see ourselves as 'The Future of Health' because of our conviction that better health care outcomes will arise only from high-quality and clinically-informed medical research. The strong engagement between researchers here and the RBWH ensures that our work is relevant and that we are jointly and synergistically improving the wellbeing of our community.

Although partnerships can take many forms, we have ensured the solidity and persistence of collaborations through formal agreements such as the Brisbane Diamantina Health Partners (BDHP) and the Herston Imaging Research Facility. QIMR Berghofer and the RBWH are fortunate and privileged to share joint appointments for many of the nation's leading clinical researchers, further underscoring the deep engagement and shared mission of our two institutions. This happens when some of our lead researchers are active clinicians, but also when active clinicians in the RBWH, and elsewhere, are appointed as Honorary Group Leaders and have their laboratories in the Institute. The long-established RBWH-QIMR Berghofer conjoint laboratories are also an important indication of our cooperation. We encourage and wish to promote these clinical-research linkages even further.

The past year has seen a reinvigoration of the Herston Precinct. Exciting plans for the Herston Quarter were announced, and plans for the development of the RBWH are moving from discussion to action. This has led to regular and fruitful meetings with the RBWH, UQ, QUT and ourselves in order to have the strongest possible medical and health precinct at Herston.

Through all these efforts we are ensuring that collocation is not simply an accident of address but rather one which grows to deliver the best for society and to fully use the skills which are available in both organisations. The outcomes highlighted in this report attest to the real progress that is being made.



Queensland University of Technology



Professor Ross Young
Executive Dean, Faculty of Health
Queensland University of Technology

QUT is a major university partner of the RBWH with a focus on health-related research, education and training. QUT's involvement is largely through our Faculty of Health, the QUT Health Law Centre, Science and Engineering Faculty, the Institute of Health and Biomedical Innovation (IHBI) and Brisbane Diamantina Health Partners.

Our productive partnership with the RBWH continued in 2016 with new opportunities recognised in the areas of regenerative medicine and imaging. Plans for the Herston Biofabrication Institute progressed over the past 12 months. This exciting collaboration between Metro North Hospital and Health Service and QUT will provide innovative, personalised and automated treatments. Our researchers are advancing knowledge and technology in 3D scanning, modelling and printing of bone, cartilage and other human tissue to repair tissue that is lost or damaged.

Collaboration through the Herston Imaging Research Facility entered its second year and is a unique opportunity for clinicians and researchers to work together to facilitate our understanding in the diagnosis and treatment of cancers, psychological disorders, cardiovascular disease, neurological disease and injury. The facility is an alliance between QIMR Berghofer, UQ, QUT, RBWH through the Metro North Hospital and Health Service, and industry partner Siemens. An academic joint-appointment with QIMR-B has facilitated the establishment of a program of clinical and preclinical molecular imaging research which is helping to assess new radiotracers for PET studies. Other projects, including those funded via RBWH seed grants, are currently in development.

In 2016, The Australian Centre for Health Services Innovation (AusHSI) provided advice and guidance on a number of projects with the RBWH around health services, including the development and proliferation of multi-criteria decision analysis tool, EPICentre, Reviewing Equitable Access to Care outside of Hours (REACH), evaluating costs and outcomes of the elective surgery pod, and analysis of cost effectiveness of the Comprehensive Epilepsy Surgical Program (CESP). AusHSI awarded an implementation grant to realign resources to reduce low value services aimed at improving nutritional care of acute hospital patients, and a partnership grant to improve emergency chest pain assessment. AusHSI is a collaboration between QUT, UQ, RBWH and Queensland Health and the RBWH Chief Executive, and Director of Research, are active members of AusHSI's governance team setting the strategic direction of the Centre.

Longstanding collaborations in nursing research and training continued with researchers receiving NHMRC funding for a clinical trial in nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy. A second clinical trial received funding from industry to look at radiation dermatitis in head and neck cancer patients. Two NHMRC Centres of Research Excellence bring QUT and RBWH researchers together. The QUT-based CRE in End-of-Life Care has three key programs addressing models of service delivery and end of life decision making. Outputs included publications in highly ranked journals including, 'BMC Palliative Care' and 'Palliative Medicine'. The NHMRC Chronic Kidney Disease CRE involves investigators and collaborators from across Australia and is led by UQ with MNHHS, QUT and other partners. Research outcomes have featured in 'BMC Nephrology' and 'Journal of Advanced Nursing'.

The QUT/RBWH Cancer Nursing Professorial Precinct team provides academic leadership to the 280 cancer nurses at the RBWH. Investigators were awarded a RBWH Foundation grant to conduct a pilot trial investigating a nurse-led survivorship intervention for cancer patients. Outputs in high-ranking international journals 'Journal of Clinical Oncology' and 'Journal of Cancer Survivorship' show the impact of this collaboration. QUT's joint professorial appointment with Critical Care Services leads the Intensive Care Nursing Professorial Unit at the RBWH. The unit developed a program of work focused on developing evidence-based approaches to nursing care and management of the mechanically ventilated critically ill patient in intensive care. A successful grant with the Wound Management CRC involved a clinical trial in relation to reduce pressure related injuries. This work has been published in the 'International Wound Journal', 'BMC Nursing' and 'Australian Critical Care'. QUT's joint professorial appointment with Internal Medicine Services has helped to establish the RBWH Stroke Nursing Professorial Unit. The team was awarded an RBWH Foundation Grant to investigate physical activity and its effect on neuroprotective peptides and contributes to two state-wide grants in the areas of stroke rehabilitation and reducing the impact of hospital stays. Recent outcomes have been published in 'Stroke'.

In addition to the above, publications demonstrate the productive links between academic staff, clinicians and students in health services, palliative care, nursing practice, renal health, nutrition, cardiovascular disease, cancer and neurophysiology. Researchers from QUT and RBWH have received new grants in the areas of brain trauma, cancer treatment and patient wellbeing, renal care, nursing practice, wound care and biomanufacturing that will ensure that QUT's partnership with the RBWH remains productive and beneficial for our organisations, patients and the community.

RBWH Foundation



Mr Peter Treseder
Chief Executive Officer
RBWH Foundation

Being the charity arm of Royal Brisbane and Women's Hospital is a privilege. We are honoured to work with and support some of the country's most brilliant researchers as well as work with extremely generous individuals and businesses in the community.

The generosity of these people and organisations is humbling, and we are truly grateful to them for their conviction to invest in the advancement of medical research in order to further improve patient outcomes at our hospital.

The Foundation and its donors understand that research is a long and costly endeavour with many unforeseen impediments, commonly caused by the unpredictable nature of research funding. We also understand how difficult it is for many researchers to obtain funding for their projects. RBWH Foundation is, therefore, committed to assisting our researchers in their endeavours by providing funds needed to sustain existing projects and seed funding for the establishment of new projects so the evidence can be gathered to support applications to larger funding bodies.

We are incredibly proud of the fact that our seed funding has enabled several RBWH researchers to obtain substantial grants from the NH&MRC in the past few years.

In 2015, Professor Jason Roberts received over \$2 million for his study into antibiotic resistance and Dr Andrew Mallett and his investigation team received \$1.2 million for a multi-centre study into inherited kidney disease.

Also as a result of the seed-funding grant received from RBWH Foundation for the initial BLING (Beta Lactam Infusion Group) Study (60 patients), the RBWH's ICU team received an NH&MRC grant to do a double blind Phase IIb RCT of 420 patients. This has now led to a further \$3.2 million grant over five years being awarded from NH&MRC in 2016 for BLING III. BLING III is an international randomised control study involving 7,000 patients and will be the definitive trial investigating effective modes of antibiotic administration of beta-lactam antibiotics.

In the 2015/16 financial year, the support we received through donations, sponsorships, bequests and participation at our various events, enabled RBWH Foundation to distribute \$4.5 million to a range of different research and patient care initiatives at the hospital.

RBWH Foundation also manages a number of 'tied' funds on behalf of researchers at the hospital and is an official administering institute of NH&MRC, the only official administering body for the hospital. Tied funds are typically comprised of donations instigated by the particular department that established the fund, as well as proceeds from fundraising events, bequests or other activities. The tied funds and any NH&MRC grants kept with the Foundation are simply administered by the Foundation for a zero to minimal administrative fee, and the department is able to access money when required. Full financial support and monthly reporting can also be provided.

RBWH Foundation's support for researchers at the hospital is therefore not just monetary. We also strive to assist in the journey of discovery by enabling them to focus on what they do best without having to worry about the financial reporting and other administrative details.

We thank all of our donors, sponsors and event participants for their munificent support and we thank the researchers for allowing us to be part of their journey of discovery. We are committed to continuing to build awareness for the incredible research conducted at RBWH and, of course, continuing to grow our support.

The University of Queensland



Professor Melissa Brown
Deputy Executive Dean and
Associate Dean (Research)
Faculty of Medicine and Biomedical Sciences
The University of Queensland

The two health-focused Faculties at UQ, Health and Behavioural Sciences (HaBS) and Medicine, have multiple active points of engagement with RBWH on the Herston campus, involving collaboration across research, teaching and clinical service delivery.

Both Faculties have a strong presence on the Herston campus. This includes the School of Dentistry, the Medical School, RBWH Clinical Unit, UQ-CCR and the School of Public Health, as well as a number of UQ-RBWH collaborative research centres: the Burns, Trauma and Critical Care Research Centre (BTCCRC), directed by Professor Jeffrey Lipman; the Perinatal Research Centre led by Professor Paul Colditz; and the Centre for Youth Substance Abuse Research (CYSAR), funded by philanthropy from the Graeme Wood Foundation and directed by Professor Jason Connor. The Recover Injury Research Centre, funded by the Queensland Motor Accident Commission, and situated in the UQ Oral Health Centre, has a number of close collaborations with RBWH physiotherapy. UQ is a partner with QUT, Queensland Health, and QIMR Berghofer in the Health Imaging Research Facility (HIRF) located in the CCR building. This provides state-of-the-art medical imaging to researchers in oncology, clinical neurosciences, and related fields.

The integration of the UQ School of Dentistry and the Brisbane Dental Hospital within the spectacular, purpose-built UQ Oral Health Centre has become a reality, with seamless integration of clinical teaching and service provision. We are delighted to have five senior conjoint positions ensuring the success of this collaboration. UQ is also an active partner in the development of a planned Specialised Rehabilitation and Ambulatory Care Centre on the Herston site, which will serve as a pathway from hospital to community for RBWH patients while at the same time providing unrivalled opportunities for interprofessional clinical education and translational research to benefit rehabilitation outcomes.



Professor Christina Lee
Associate Dean (Research)
Faculty of Health and Behavioural
Sciences
The University of Queensland

The University looks forward to continuing to strengthen its relationship with RBWH, with the aspiration of working collaboratively with the hospital and within the Brisbane Diamantina Health Partners to achieve evidence-based improvements in research, clinical care and education to deliver the highest quality healthcare for the benefit of Queensland patients.

The University of Queensland Centre for Clinical Research



Professor Gregory Rice
Acting Director
The University of Queensland
Centre for Clinical Research

UQ CCR's mission is to be a leading edge clinical research facility linking laboratory science to patient care and outcomes, and to drive collaborative research in health and medical research with clinical health providers. Since commencing operations, CCR researchers have published more than 2900 peer-reviewed research manuscripts that have received > 78,250 citations and has secured in excess of \$73 million in research funding. The ongoing research collaboration with the Royal Brisbane and Women's Hospital remains one of the most significant drivers of CCR's clinical research translation. Indeed, CCR's most frequent national collaborating organisation has been the Royal Brisbane and Women's Hospital.

The restructuring of the Faculty of Medicine in 2016 further enhanced research collaborations and engagement between CCR and RBWH with the relocation of more than 40 clinical and pre-clinical research active staff into UQCCR, including Professors Lipman and Roberts, Burns Trauma and Critical Care Research Centre; Professor Leonie Callaway, Obstetric Medicine; and Associate Professor Lata Vadlamudi, Neurogenetics.

As of December 2016, CCR supports the research activities of 220 staff and students, and provides international industry standard training for Research Higher Degree students and post-doctoral fellows. Centre staff published 444 peer-reviewed research manuscripts, including 12 high impact publications in Nature, The Lancet, and the New England Journal of Medicine. RBWH clinical staff co-authored 40% of CCR's primary research output. The contribution to research output by research themes was: 27% in Brain and Mental Health; 20% in Mothers Babies and Life; 17% in Cancer; 14% Infection and Immunity; and 20% other. The most frequently cited research contributions in 2016 were in the global burden of disease, cancer and infectious diseases (Professor David Paterson was again honoured as a Thomson Reuters Highly Cited Researcher).

CCR's clinical outpatient floor continues to be a focal point for engagement with RBWH staff. In 2016, 1444 patients engaged with 31 different clinical research projects and trials. We continue to seek opportunity to further develop this facility with RBWH clinical researchers and incorporate these activities within CCR's quality management systems. Consistent with CCR's commitment to continuous quality improvement in all aspects of its operation, the Centre holds NATA accreditation for research and development, and complies to ISO standards for the development of medical devices and in vitro diagnostics. Through its quality programs, CCR is able to provide collaborators with assurance about the robustness and reproducibility of research outcomes.

As Acting Director of UQ CCR, I thank and acknowledge our clinicians, healthcare practitioners, scientists and students for striving for excellence in their research and commitment to improving community health and well-being. The Centre seeks to further develop collaborative clinical research engagement with RBWH, the continued development of evidence-based practice and the training of a new generation clinical researchers. This will be the product of continuing communication and alignment of research of objectives and end-user requirements, as excellence can only be achieved when everyone shares a deep commitment to common goals.

Doctors of Philosophy Completed in 2016

Allied Health

Name	Name of Project
Clare Burns	Telehealth and Speech Pathology Management of Head and Neck Cancer
Jade Dignam	Factors influencing treatment –induced language recovery in chronic, post-stroke aphasia

Mental Health

Name	Name of Project
Clare Burns	Telehealth and Speech Pathology Management of Head and Neck Cancer
Jade Dignam	Factors influencing treatment –induced language recovery in chronic, post-stroke aphasia

Women's and Newborn Services

Name	Name of Project
Fabio Gomes	Development of an assay for total vitamin D content in milk and application to study the effect of pasteurisation in breastmilk

Telehealth and Speech Pathology Management of Head and Neck Cancer



Dr Clare Burns

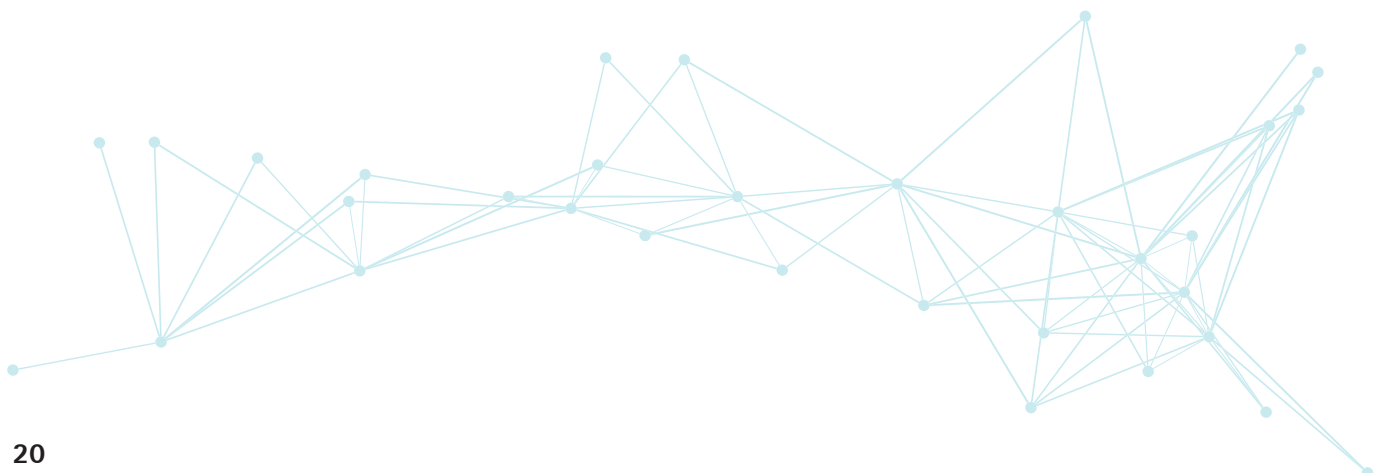
As a speech pathologist in working in cancer care over many years, I developed an understanding of the challenges our patients experience in accessing expert care, and also the issues clinicians face in delivering these services. Speech pathology intervention is necessary to optimize the swallowing and communication rehabilitation of patients with head and neck cancer (HNC). Given the specialist nature of this intervention, not all clinicians are able to manage this group independently, and historically support is provided by RBWH via email/phone contact to the local speech pathologist, and/or the patient travels to Brisbane for intervention.

Health services now have a wonderful opportunity integrate technology with the delivery of care, to improve access to specialist services, and in doing so enhance patient outcomes and service efficiencies. My PhD focused on developing and evaluating new telepractice service models to support speech pathology cancer care intervention. Using purpose-built videoconferencing systems connected via the QHealth telehealth network, weekly telehealth appointments were conducted online between the RBWH speech pathologist and patients and local clinicians at three regional cancer facilities: Nambour, Hervey Bay and Rockhampton. The benefits of this Australian-first service were significant, with results of a multi-site randomized controlled trial demonstrating improved patient outcomes, service efficiencies and cost saving for both the patient and speech pathology services in comparison to standard care. Importantly patients also preferred the telehealth model, and clinicians benefited from the online training opportunities.

One of the many benefits of my PhD journey was learning about new technology and how it can be adapted to support health care delivery. Developing new collaborations with specialist staff at Statewide Telehealth Services, RBWH AV Telemedicine Department and Mr Ben Keir, Medical Physicist, highlighted to me the importance of integrating the expertise of clinical, research and technology staff when developing and evaluating these new services, to ensure clinical efficacy and utility is optimised.

I received wonderful support throughout my PhD journey, and I would like to thank my supervisors, Professor Liz Ward and Dr Annie Hill; Mrs Lynell Bassett, Director, RBWH Speech Pathology and Audiology Department; the RBWH, Nambour, Hervey Bay and Rockhampton Speech Pathology Departments, and the Telehealth Support Unit; the funding grants received from the RBWH Foundation and AusHHS; and importantly the patients who graciously gave their time to participate in this research.

I feel excited to be able to continue to develop new telehealth services. With the assistance of a 2017 RBWH Post Doctoral Research Fellowship, I am expanding the PhD telehealth model, into an integrated speech pathology and dietetics service, providing home-based and facility-based intervention to RBWH patients with HNC both within Metro North HHS, and statewide. It's wonderful to share my knowledge and experience with clinicians to support the development of similar services in their own health facilities, and I am excited to see the opportunities that technology will bring to optimize health care delivery in the future.



Factors influencing treatment-induced language recovery in chronic, post-stroke aphasia"



Jade Dignam PhD

Summary: This thesis evaluated factors influencing treatment-induced language recovery in adults with chronic, post-stroke aphasia in response to the comprehensive aphasia rehabilitation program, Aphasia LIFT. The influence of individuals' language and cognitive ability as well as the effect of treatment intensity on language and communication outcomes was assessed. Comparable, if not superior, therapy outcomes were found for distributed versus intensive aphasia therapy. Furthermore, individuals' baseline language, cognitive and verbal learning profiles influenced therapy outcomes for anomia. This research advances our understanding of the mechanisms facilitating treatment-induced language recovery and contributes to our understanding of behavioural predictors of aphasia treatment success.

PhD Abstract Natural Recovery of People with Cannabis Use and Psychosis



Dr Shane Rebgetz

Shane, a psychologist who has been working in Child and youth mental health services for 10 years began his PhD studies in 2009. The program of research that underpinned his thesis grew from observations in clinical practice – Shane noticed that some people presenting with psychosis who used cannabis were stopping or reducing use without formal treatment. With a view to informing practice and improving outcomes, Shane set about understanding 'this Natural Recovery'.

Shane describes commencing a PhD in 2009 as '*daunting*', and the processes around getting research running in the service as time consuming. "Navigating the ethical approval and SSA approval processes takes time about 300% longer than first anticipated", he said. Recruitment of participants, dependent on busy clinicians, was also challenging and slower than expected. Shane overcame recruitment and other challenges over the years by establishing relationships with clinicians and showing how the study could be useful to practice. Shane says support of service managers was very important and being able to access SARAS leave enabled him to complete his studies successfully. Reflecting on his experiences Shane noted a progressive openness to research across Metro North MH over recent years and commended managers and clinicians for embracing the challenge. His key 'tip' for others embarking on the research/Phd path is to align research with organisational direction and patient outcomes.

People with psychosis who use cannabis have much worse outcomes, but treatments typically have only limited effects that are poorly sustained. This program of research explored how people with psychosis cease using cannabis without substantial assistance, to see if this shed light on how treatments could be improved. The studies suggested that greater focus on employment, separate accommodation, and social and emotional support for cessation would result in stronger outcomes than at present. Similar reasons were found for strategies to maintain a reduction in use; while relapse was associated with substance using peers, and problems with relationships and negative emotions. The research underpinning the PhD was published in seven papers in journals over three years.

Allied Health Professionals



Peter Buttrum
Executive Director
Allied Health Professions

The Allied Health Professions (AHP) service line comprises the professions of Audiology, Nutrition and Dietetics, Occupational Therapy, Orthotics and Prosthetics, Physiotherapy, Psychology, Rehabilitation Engineering, Social Work and Speech Pathology, as well as the Clinical Multimedia Unit. The professions support RBWH clinical services lines within multiprofessional teams and provide high quality and evidence based services across the continuum of care.

Aligned to the RBWH vision of being a world class academic health centre, Allied Health is committed to the integration of research within clinical care. This research investment, along with ongoing education, underpins the evidence base, effectiveness, and efficiency of our service delivery, and outcomes are aimed at transforming clinical service delivery within the rapidly changing healthcare environment.

The RBWH Allied Health research program is supported by both the RBWH Centre for Allied Health Research and Metro North HHS Collaborative for Allied Health Research, Learning and Innovation (CAHRLI). CAHRLI is a strategic network of allied health clinicians and researchers that formally links research, learning and patient care, capitalising on our existing resources to enhance capacity and output. Key achievements of 2016 included the CAHRLI Research Forum in May and the successful implementation of the Pre-PhD scholarship program which enabled several RBWH AHP staff to progress towards enrolment in a research higher degree (RHD). Overall, seven out of the eight CAHRLI scholarship recipients who completed the 2016 program are progressing to a RHD. Evaluation of the Pre-PhD scholarship program has led to a further three RBWH AHPs being awarded scholarships for 2017.

Throughout 2016, Allied Health clinicians have continued to build on previous success in research outcomes. AHP staff were successful in authoring 62 peer reviewed publications and attracting \$1.28m dollars in external grant funding. Additionally staff presented over 100 presentations or posters at national and international conferences. There were also 20 AHPs undertaking higher research degrees at RBWH while an additional 26 RHD students were supervised by RBWH AHPs.

Exceptional achievements for 2016 included Associate Professor Jenny Paratz (Physiotherapy) being awarded the CAHRLI Outstanding Leadership in Research award and Dr Nicole Andrews (Occupational Therapy) being awarded a highly commended in the inaugural Metro North Research Excellence Awards.

Other significant achievements included Dr Clare Burns (Speech Pathology) winning the RBWH Symposium Research Medal and the Overall Superior Quality Achiever Award (RBWH QuARRIE Awards) and Charlotte Hockey awarded the CAHRLI Novice Research Award. Furthermore, Teresa Brown (Nutrition and Dietetics) was recognised by numerous awards including the prestigious Sir Robert Menzies Memorial Scholarship for Allied Health Sciences, the Dr Alf Howard International Scholarship (UQ) and the RBWH Symposium 'Best Clinical Science Oral' prize.

We are extremely proud of our ongoing commitment to high quality research. We also appreciate and thank the contribution of university partners, without whom this level of research success would not be possible, and look forward to their ongoing collaboration. Finally, and most importantly, sincere thanks and congratulations are extended to all the Allied Health staff for their dedicated efforts and achievements in 2016.

Centre for Allied Health Research

The Centre for Allied Health Research (CAHR) is a network of Allied Health clinician researchers with a vision to build research capacity and to facilitate research advances which translate into real benefits for patients. CAHR currently comprises Allied Health researchers who are funded from RBWH as well as a research position which is funded by Metro North Hospital and Health Service.

Key activities of researchers within CAHR in 2016 included the evaluation of new innovative models of care (i.e., Allied Health first contact clinics) and supporting novice clinician researchers progress their innovative ideas into research programs. The research agenda of CAHR is wide ranging and encompasses collaborations with diverse group of university partners and other health services.



Supervised Post-graduate Research Students

Name	Current Studies University (<i>duration</i>)	Research Project Title	Supervisors
Lachlan Standfield	PhD, Griffith University completed 2017	Economic modelling methods for the estimation of resource use, cost-effectiveness and allocative efficiency of health care provision in a capacity constrained health care system	Tracy Comans , Paul Scuffham
Erin Pitt	PhD, Griffith University (2015–2018)	Early childhood food consumption and dietary patterns: the influence of socio-economic and demographic factors and the food environment.	Tracy Comans , Cate Cameron
Michelle Periera	PhD, University of Queensland (2014–2017)	A combined workplace-based intervention for non-specific neck pain to reduce the economic burden of health-related productivity losses in office personnel: An employer's	Venerina Johnson, Tracy Comans
Darryn Marks	PhD, Griffith University (2014–2018)	Substitution of an orthopaedic surgeon with a physiotherapist in the management of shoulder pain	Leanne Bisset, Paul Scuffman, Tracy Comans ;
Miia Rahja	PhD, Flinders University (2016–2019)	The role of Occupational Therapists in the management of dementia care in the community	Kate Laver, Tracy Comans
Michelle Cottrell	PhD, University of Queensland (2015 – 2019)	Bridging the gap: Telerehabilitation in the multidisciplinary management of patients with chronic musculoskeletal conditions	Shaun O'Leary , Tracy Comans
Ian Parker	PhD, ACU (2013 – 2019)	The Prevalence, Profile and Efficacy of conservative management for Hospital Ear Nose and Throat Category 2 and 3 wait list patients with vestibular dysfunction.	Nancy Low Choy, Tracy Comans
Alexia Rohder	PhD, UQ (2012-2017)	Evidence-based identification of aphasia using a rational clinical examination approach	Prof Linda Worrall, Dr Robyn O'Halloran, Dr Erin Godecke, Dr Anna Farrell
Leisa Turkington	PhD, UQ (2013-2019)	Neurogenic dysphagia and sensory enhancement strategies	Prof Liz Ward, Dr Anna Farrell

Research Fellows

Name	Type of Fellowship	Research Program	University (years)
Tracy Comans	Cojoint Fellow	Health economics and Health services research	Griffith University (2015 – 2017)
Peter Buttrum	Adjunct Associate Professor	School of Health and Rehabilitation Sciences	UQ (2016 – current)
Anna Farrell	Allied Health Research Fellow	Centre for Allied Health Research	
Angela Chang	Allied Health Research Coordinator	Centre for Allied Health Research	

Current RBWH Led Research Activity

RBWH Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Tracy Comans	Veronika Schoeb, Petrea Cornwell, Louise Gustafsson, Carine Milcent	Discharge planning in public and private hospitals in Hong Kong and Australia: How does it work and how cost-effective is it?
Tracy Comans	Shaun O'Leary (Physiotherapy), Maree Raymer (Physiotherapy)	Are physiotherapy led screening clinics cost effective in improving orthopaedic outpatient services?
Angela Chang	Anna Farrell (Speech Pathology), Merrilyn Banks (Nutrition and Dietetics), Peter Buttrum (Allied Health)	How much time do allied health clinicians spend undertaking research?
Anna Farrell	Anna Rumbach, Stacey Verner-Wren, Dr Rebecca Nund, Nerina Scarinci, Nicole Hutchinson, Robert Henderson, Dr Pamela McCombe	Patient and family carer experiences of dysphagia in Motor Neurone Disease: Determining speech pathology service needs for those living in rural and remote locations

Other Current Collaborative Research Activity

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Michelle Stute	Peter Buttrum, Merrilyn Banks, Maree Raymer, Tracey Comans, Sonia Sam, Nicole Moretto, Marita Plunkett	Allied Health Specialist Clinics Project
Jennifer Paratz	Rob Boots (Thoracic Medicine), Justin Kenardy (UQ CONROD), Fiona Coyer (RBWH & QUT Nursing), Peter Thomas (Physiotherapy), Tracy Comans (RBWH), Jack Iwashyna (University of Michigan), Ignacio Martin-Loaches (University of Dublin), Carol Hodgson (Monash University), Bernadette Bissett (Canberra University)	Improving the outcome of sepsis: RCT
Maree Raymer	Angela Chang, Shaun O'Leary , Belinda Gavaghan (AHPOQ), Liza-Jane McBride (AHPOQ)	Investigating representation rates to orthopaedic and neurosurgery services in patients discharged from Physiotherapy Screening Clinics in Metro North Hospital and Health Service
Maree Raymer	Nicole Moretto, Angela Chang, Shaun O'Leary , Lachlan Standfield (Griffith University), Tracy Comans	Implementing economic modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient Services within Cairns and Hinterland, Gold Coast and West Moreton Hospital and Health Services (Background data collection)
Maree Raymer	Angela Chang, Shaun O'Leary, Nicole Moretto, Tracy Comans , Sonya Osborne (AushSI), Hannah Carter (AushSI), Dean Blond (Gold Coast), Tania Cavanagh (Cairns and Hinterland), David Smith (West Moreton)	Implementing simulation modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient services in the Cairns and Hinterland, Gold Coast and West Moreton Hospital and Health Services (Implementation evaluation)

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Shaun O'Leary	Stephen McPhail (PAH), Tracy Comans , Maree Raymer , Asad Khan	Optimising patient selection and resource utilization for the non-surgical management of common orthopaedic conditions
Ally di Bella	Merrilyn Banks (Nutrition and Dietetics) , Tracy Comans , Ingrid Hickman (PAH)	Prevalence and impact of obesity in acute hospital setting
Suzanne McGavin (Nuclear Medicine)	Toni Halligan (Medical Radiation Professionals) , Travis Pearson (Nuclear Medicine) , Angela Chang	Ultrasound guided radioisotope injections in Lymphoscintigraphy administered by Nuclear Medicine Scientists
Alice Pender (Audiology)	Angela Chang , Tracy Comans , Carla Rose (Audiology)	Patient outcomes following cochlear implant surgery
Georgia Thomas (UQ) Prof David Copland (UQ)	Nadia Borgna , Sarah Heaton , Dr Anna Farrell , Lindy Jefree	The use of functional magnetic resonance imaging and MRI diffusion tractography for pre-surgical mapping and investigation of neuroplasticity in adults with a brain tumour
Prof Linda Worrall (UQ), Prof David Copland (UQ), Melissa Lawrie (Gold Coast HHS), Prof Liz Ward (UQ), Dr Moya Pattie (Wesley)	Penni Burfein , Anna Farrell	Can a new, intensive model of aphasia rehabilitation achieve better outcomes than usual care?

Research Awards and Achievements

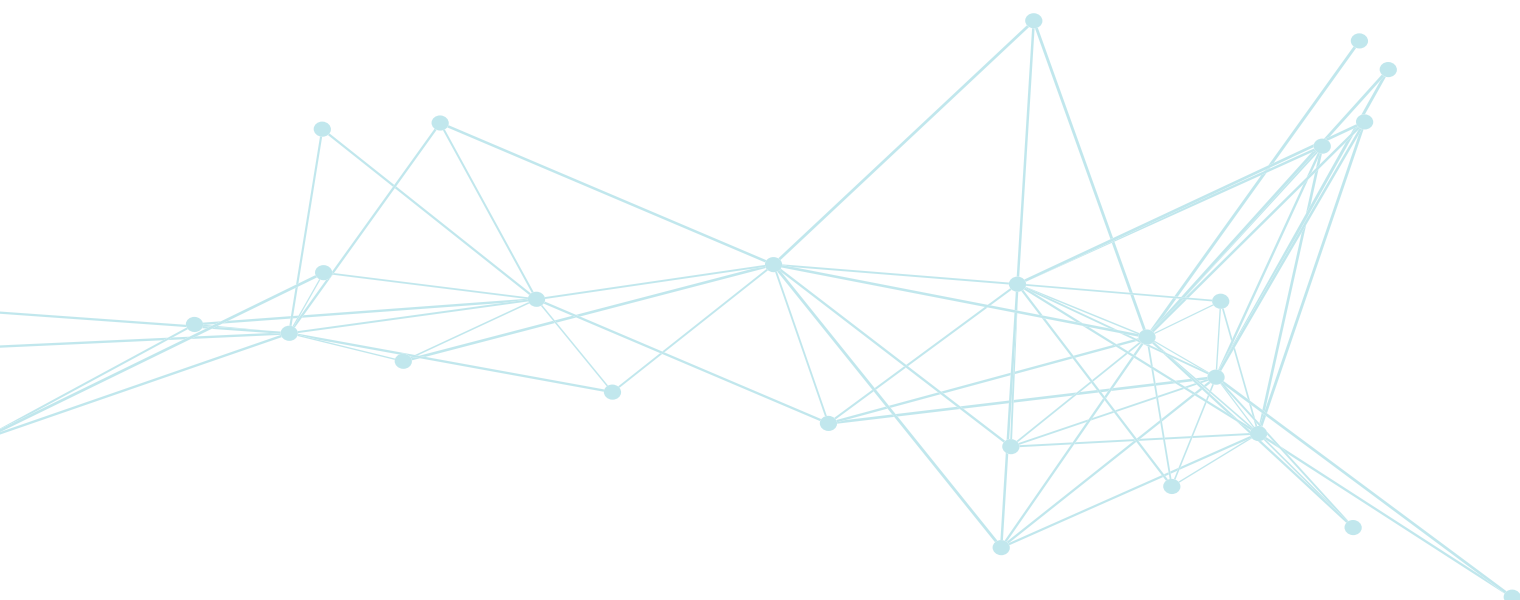
Recipient	Award	Event
Felicity Fox	Outstanding Site Award (NHMRC funded studies)	PaCCSC Annual Research Conference, 21 st February 2015

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups/ Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Maree Raymer , Tracy Comans , Shaun O'Leary , Angela Chang , Lachlan Standfield, Dean Blond, Tania Cavanagh, David Smith	RBWH Physiotherapy and OPSC and MDS	Implementing economic modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient services	AushSI Implementation Grant.	\$75,000	\$150,000 (2016-2017)
Shaun O'Leary , Maree Raymer , Anne J Hill (UQ), Tracy Comans , Mark Cruickshank , Perry Judd , Patrick Swete Kelly, Trevor Russell (UQ)	Physiotherapy Department, RBWH N/OPSC & MDS, RBWH School of Health & Rehabilitation Sciences, UQ	Bridging the gap: telerehabilitation in the multidisciplinary management of patients with chronic musculoskeletal conditions	Queensland Health	\$17,427	\$17,427 (2016)
Alexia Rohde , Anna Farrell , Linda Worrall, Erin Godecke, Robyn O'Halloran	Speech Pathology	Evidence-based identification of aphasia using a rational clinical examination approach	RBWH Foundation, Research Project Grant	\$40,000	\$40,000 (2016)
Anna Farrell , Anna Rumbach, Stacey Verner-Wren, Robert Henderson , Nicole Hutchinson	Speech Pathology and Neurology	Patient and family carer experiences of dysphagia in Motor Neurone Disease	HP Research Grant	\$7,500	\$15,070 (2015-2017)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Comans T, Raymer M, O'Leary S , Smith D, Scuffham P. Cost-effectiveness of a physiotherapist-led service for orthopaedic outpatients. <i>J Health Serv Res Policy</i> . 2014;19(4):216-23.
Journal Article	Marks D, Comans T , Thomas M, Ng SK, O'Leary S , Conaghan PG, Scuffham P, Bisset L. (2016) Agreement between a physiotherapist and an orthopaedic surgeon regarding management and prescription of corticosteroid injection for patients with shoulder pain. <i>Manual Therapy</i> . (accepted for publication – 2/10/2016).
Journal Article	Marks D, Bisset L, Comans T , Thomas M, Ng SK, O'Leary S , Conaghan PG, Scuffham P. (2016) Increasing capacity for the treatment of common musculoskeletal problems: a non-inferiority RCT and economic analysis of corticosteroid injection for shoulder pain comparing a physiotherapist and orthopaedic surgeon. <i>PLoS ONE</i> 11(9): e0162679. doi: 10.1371/journal.pone.0162679.
Journal Article	Standfield L, Comans T, Raymer M, O'Leary S , Moretto N, Scuffham P. (2016) The efficiency of increasing the capacity of physiotherapy screening clinics or traditional medical services to address unmet demand in orthopaedic outpatients: a practical application of discrete event simulation with dynamic queuing. <i>Applied Health Economics and Health Policy</i> .14(4):479-91. doi: 10.1007/s40258-016-0246-1
Journal Article	Robert Smith, Bruce Y. Lee, Aristides Moustakas, Andreas Zeigler, Mélanie Prague, Romualdo Santos, Matthias Chung, Robin Gras, Valery Forbes, Sixten Borg, Tracy Comans, Yifei Ma, Niekoo Punt, William Jusko, Lucas Brotz, and Ayaz Hyder. (2016). Population modelling by examples ii. In <i>Proceedings of the Summer Computer Simulation Conference (SCSC '16)</i> . Society for Computer Simulation International, San Diego, CA, USA, Article 51 , 8 pages.
Journal Article	Goeman D, Comans T , Enticott JC, Renehan E, Beattie E, Kurrle S, Koch S (2016); Evaluating the Efficacy of the “Support for Life” Program for People with Dementia and Their Families and Carers’ to Enable Them to Live Well: A Protocol for a Cluster Stepped Wedge Randomized Controlled Trial. <i>Frontiers in Public Health</i> , 4:245
Journal Article	Comans TA , Peel NM, Hubbard R, Mulligan AD, Gray LC and Scuffham PA (2016); The increase in healthcare costs associated with frailty in older people discharged to a post-acute transition care program; <i>Age and Ageing</i> . 45(2):317-320: DOI: 10.1093/ageing/afv196
Journal Article	Pereira MJ, Straker LM, Comans TA and Johnston V (2016); Inter-rater reliability of an observation-based ergonomics assessment checklist for office workers; <i>Ergonomics</i> 59(12): 1606-1612 DOI: 10.1080/00140139.2016.1157215
Journal Article	Comans TA , Sealey, S, Mervin M, Barker R (2016) Exploration of the Economic and Quality of Life Impact on Carers of Individuals Undergoing Community Rehabilitation. <i>International Journal of Therapy and Rehabilitation</i> . 23 (10) pp 493-498: DOI: http://dx.doi.org/10.12968/ijtr.2016.23.10.493
Journal Article	Turkington L , Nund R, Ward E, Farrell A . (2016) Exploring current sensory enhancement practices within videofluoroscopic swallow study (VFSS) clinics. <i>Dysphagia</i> . doi: 10.1007/s00455-016-9747-1
Journal Article	Turkington L , Ward E, Farrell A . (2016) Carbonation as a sensory enhancement strategy: A narrative synthesis of existing evidence. <i>Disability and Rehabilitation</i> . doi: 10.1080/09638288.2016.1213894.



2016 Conference Presentations- Invited Speaker, Oral Poster

Type (Oral / Poster / Invited)	Publication information (RBWH staff in bold)
Poster	Plunkett M, Buttrum P, Banks M. Allied Health Specialist Outpatient Clinics: New models of care to enhance care, drive throughput and reduce wait lists. RBWH Healthcare Symposium, October 2015
Oral	Smith S. Developing a protocol for ... 13 th National Conference. Melbourne, May 2015
Invited	Comans TA; Using Anylogic multi-method for health economics CONTEMPORARY ECONOMIC MODELLING – STATE OF THE ART; ISPOR-Australia Chapter workshop March 2016, Sydney Australia (Invited Speaker)
Oral	Comans TA; Lessons learnt in modelling orthopaedic health services. The Australian Health Economics Conference, Perth WA, September 2017.
Oral	Turkington L, Ward, E., Farrell A. Carbonation and Neurogenic Dysphagia. University of Queensland Post-graduate Research Conference, 23 rd November 2016
Poster	Rohde A, Worrall L, O'Halloran R, Godecke E, & Farrell A. Brisbane Evidence-Based Language Test for Acute Stroke, Brisbane EBLT: a speech pathology assessment for the identification of acute post-stroke language disorders. International Aphasia rehabilitation congress. London 16 th December 2016
Oral	Banks, M & Farrell, A. Growing Research Capacity. RBWH Cancer Care Research Retreat. Brisbane, 10 th November 2016
Poster	Turkington L, Ward E, Farrell A. Sensory Enhancement Strategies in VFSS. RBWH Healthcare Symposium, September 2016

Research Publications / Presentation summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Centre for Allied Health Research	10	0	4	2



Department of Nutrition and Dietetics

Research vision

Our research vision is to be leaders in dietetic research, with the overall aim of providing excellent and evidence-based nutrition and dietetic services for inpatients and outpatients of the RBWH. This is achieved through developing capacity within the department to support all dietitians to engage in research at all levels of the process (i.e. research consumers, participants and generators) and building strong relationships and research networks with researchers across RBWH, MN and universities.

Benefits for patients

Our research agenda is based on improving the nutrition and health of our patients through knowledge generation and translation to ensure we are delivering evidence based dietetic care. Specifically our research has led to enhanced prevention and treatment of malnutrition and pressure injuries through supportive meal time environments, nurse-led nutrition protocols, appropriate provision of hospital foodservices and medical nutrition therapy, and exploration of novel post discharge procedures. For patients with a diagnosis of cancer, appropriate treatment with early supportive enteral nutrition prevents nutritional decline, improves recovery and patient outcomes. Through a greater understanding of factors impacting on excess weight in pregnancy, appropriate health services can be delivered to prevent and manage excess weight which is associated with chronic disease in women and children throughout the life course.

Achievements

Research success has been celebrated in Nutrition and Dietetics in 2016. As a department (and in collaboration with our research partnerships), we have been awarded funding in excess of \$1.8mill in competitive national and local research grants, and have published a further 20 peer-reviewed research papers and 15 oral and invited research presentations at national and international conferences. Three of our clinicians are completing research higher degrees, with a further seven PhD students supervised by researchers in our department.

Research Collaborations

Our department has strong research networks within RBWH, Metro North HHS and beyond. Locally, we collaborate with Internal Medicine, Cancer Care, Gastroenterology and Hepatology, Womens and Newborn, and Nursing and Midwifery Services at RBWH. We partner with a number of universities to conduct research and supervise research students (undergraduate, Masters and PhD). Academic partners include Queensland University of Technology (QUT), University of Queensland (UQ), Griffith University; University of Sunshine Coast (USC), Australian Catholic University (ACU) and Queensland Institute of Medical Research (QIMR). State-wide, national and international networks include: Australasian Society of Parental and Enteral Nutrition (AuSPEN); European Society of Clinical Nutrition and Metabolism (ESPEN), Academy of Nutrition and Dietetics, Australian and New Zealand Intensive Care Research Centre (ANZIC-RC); as well as Nursing Research Centre of Excellence, and collaborations with other hospitals, including Princess Alexandra Hospital and The Prince Charles Hospital.





BDHP Award Winners

Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Sarah Andersen	MPhil, UQ (2015-2016)	Early nutrition support in patients undergoing BMT	Judy Bauer, Merrilyn Banks
Teresa Brown	PhD, UQ (2012-2017)	Optimising nutrition support in patients with head and neck cancer	Judy Bauer, Merrilyn Banks , Brett Hughes
Angela Byrnes	PhD, UQ (2015-2018)	Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards	Judy Bauer, Adrienne Young , Merrilyn Banks , Alison Mudge
Nerida Hart	PhD, QUT (2015-2018)	What makes a quality hospital foodservice?	Mary Hannan-Jones , Merrilyn Banks
Claire Nelson	PhD, QUT (2014-2016)	Investigation of nutrition status of community adults with lower leg wounds	Merrilyn Banks , Mary Hannan-Jones , Kathleen Findlayson
Quoc Quong Tran	PhD, QUT (2014-2017)	Nutritional status of patients in Vietnamese hospitals	Danielle Gallegos, Merrilyn Banks , Mary Hannan-Jones
Katrina Ridout	PhD, QUT (2016-2021)	Understanding and improving pregnant women's participation in government funded prenatal nutrition and lifestyle intervention programs	Susie de Jersey , Danielle Gallegos
Carrie-Anne Lewis	MPhil, UQ (2016-2017)	Micronutrient status and monitoring in bariatric surgical patients	Ingrid Hickman, Susie de Jersey , Emma Osland
Nina Meloncelli	PhD, QUT (2016-2018)	Management of gestational diabetes mellitus exploring practices, evidence base and models of care among the multidisciplinary team	Susie de Jersey , Adrian Barnett

Research Fellows

Name	Type of Fellowship	Research Program	University (years)
Merrilyn Banks	Adjunct Associate Professor	Efficacy and cost effectiveness of nutrition in healing pressure ulcers	Queensland University of Technology (2012-current) University of Queensland (2012-current)
Adrienne Young	Visiting Research Fellow	Nutrition in Older Adults	Queensland University of Technology (2013 – current)
Adrienne Young	Research Coordinator (Nutrition and Dietetics)	Royal Brisbane and Women’s Hospital	
Susie de Jersey	Visiting Research Fellow, and Adjunct Senior Lecturer	Nutrition and weight gain in the perinatal and post-partum period	Queensland University of Technology (2013 – current) University of Sunshine Coast (2014-current)
Lynda Ross	Visiting Fellow	Healthy Eating and Lifestyle Program (HELP) intervention evaluation and follow up	Griffith University (2014-current)
Mary Hannan-Jones	Honorary Research Fellow and Senior Lecturer	Improving quality of Food Services	Queensland University of Technology (2014 – current)

Current RBWH Led Research Activity

Name	Type of Fellowship	Research Program
Carrie-Anne Lewis	Ingrid Hickman, Susan de Jersey, Emma Osland, Siobhan Wallin , Lindsay Web (PAH), George Hopkins (Surgery), Blair Bowden (Surgery), Benjamin Dodd (Surgery), Viral Chikani (Endocrinology), Anthony Cheng (Surgery) ,Chung Kwun Won (Surgery), Kath Bradley (Surgery), Lara Maidment (Endocrinology)	Micronutrient and protein energy malnutrition outcomes in a weight loss surgery population
Paula MacDermott	Chris Chapman-Kiddell, Lynda Ross (Griffith), Anita Pelecanos (QIMR), Graham Radford-Smith (Gastroenterology)	Is there any correlation between dietary patterns in Inflammatory Bowel Disorder and genetics pre-diagnosis?
Teresa Brown	Merrilyn Banks (Nutrition and Dietetics), Brett Hughes (Cancer Care), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Judy Bauer (UQ)	A randomized comparison of early prophylactic feeding via gastrostomy versus standard care in high risk patients with head and neck cancer (2012-current)
Teresa Brown	Merrilyn Banks (Nutrition and Dietetics), Brett Hughes (Cancer Care), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Judy Bauer (UQ)	Impact of non-adherence to swallow and nutrition guidelines for head and neck cancer
Teresa Brown	Kym Wittholz (UQ), Mandy Way (QIMR), Merrilyn Banks (Nutrition and Dietetics), Brett Hughes (Cancer Care), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Judy Bauer (UQ)	Investigation of p16 (HPV) status, chemotherapy regimen and other nutrition markers for predicting gastrostomy in patients with head and neck cancer
Claire Blake	Teresa Brown (Nutrition and Dietetics), Rainbow Lai (UQ), Laura Moroney (SP), Jennifer Helios (SP), Brett Hughes (Cancer Care), Liz Kenny (Cancer Care), Anita Pelecanos (QIMR), Judy Bauer (UQ)	Nutrition outcomes and toxicities from tomotherapy in head and neck cancer patients
Teresa Brown	Aaron Chan (UQ), Kathleen Dwyer (Nutrition and Dietetics), Merrilyn Banks (Nutrition and Dietetics), Brett Hughes (Cancer Care), Judy Bauer (UQ), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Jane Crombie (Speech Path), Ann-Louise Spurgin (Speech Path)	Revalidation of swallow and nutrition guidelines in tomotherapy

Name	Type of Fellowship	Research Program
Sarah Andersen	Merrilyn Banks (Nutrition and Dietetics), Glen Kennedy (Cancer Care), Teresa Brown (Nutrition and Dietetics), Nicholas Weber (Cancer Care), Geoff Hill (Cancer Care), Judy Bauer (UQ)	Does early proactive enteral nutrition improve outcomes post allogeneic stem cell transplantation – A randomized comparison to standard care (2015-current)
Susie de Jersey	Leonie Callaway (UQ, IMS), Lynda Ross (Griffith Uni), Taylor Guthrie (Nutrition and Dietetics), Jeanette Tyler (Women's and Newborn), Nickie Moreton (Women's and Newborn), Karen New (UQ, Women's and Newborn), Janelle Laws (Women's and Newborn)	Evaluation of workforce training to support Healthy Pregnancy Healthy Baby
Susie de Jersey	Leonie Callaway (UQ, IMS), Taylor Guthrie (Nutrition and Dietetics), Jeanette Tyler (Women's and Newborn), Nickie Moreton (Women's and Newborn), Karen New (UQ, Women's and Newborn)	Efficacy of a low intensity consumer held pregnancy weight monitoring tool to prevent excess gestational weight gain
Angela Byrnes	Adrienne Young (Nutrition and Dietetics), Merrilyn Banks (Nutrition and Dietetics), Alison Mudge (IMS), Judy Bauer (UQ)	Investigating the nutritional status and care of older (≥ 65 years) patients on two general surgical wards: A multiphase, action research study
Claire Blake	Merrilyn Banks (Nutrition and Dietetics), Mark Appleyard (Gastroenterology)	Cost effectiveness of Dietitian-led PEG service
Jane Musial	Mary Hannan-Jones (Nutrition and Dietetics), Adrienne Young (Nutrition and Dietetics), Susie de Jersey (Nutrition and Dietetics), Bonnie Lau, Robbie Mullins	Evaluation of combined QUT-RBWH diabetes clinic – patient and service outcomes
Susie de Jersey	Natasha Lorenzen (Nutrition and Dietetics)	Gestational Diabetes Service Nutrition Practice Guidelines and Outcomes clinical audit
Clare Byrne	Hillary Jimmieson, Susie de Jersey, Adrienne Young	Evaluation of the New Beginnings program
Claire Gardiner	Carrie-anne Lewis, Clare Byrne, Adrienne Young	Evaluation of the Acute Eating Disorder Dietitian role
Claire Blake, Emma Osland	Kay Lasenby (Gastroenterology)	Service evaluation of the management of complex nutrition patients (PEN PALS Project)
Ally di Bella	Merrilyn Banks (Nutrition and Dietetics), Tracy Comans, Ingrid Hickman (PAH)	Prevalence and impact of obesity in acute hospital setting
Ally di Bella	Claire Blake, Adrienne Young, Teresa Brown	Reliability of the patient-completed Malnutrition Screening Tool in the oncology outpatient setting
Claire Dux	Susie de Jersey, Emma Osland, Sandra Heaydon (Surgery), Lindy Jeffree (Surgery)	Evaluation of the Transition Feeding Pathway on the Neurosurgery Ward

Other Current Collaborative Research Activity

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Melissa Eastgate (Cancer Care, RBWH)	David Wyld (Cancer Care), Teresa Brown (Nutrition and Dietetics)	Patient perceptions of diet and cancer – survey of cancer care patients
Alison Mudge (IMS, RBWH)	Merrilyn Banks (Nutrition and Dietetics), Adrian Barnett (QUT), Irene Blackberry (Latrobe), Ann Chang (QUT), Nick Graves (QUT), Ruth Hubbard (UQ), Sharon Inouye (Harvard), Sue Kurrle (Uni of Sydney), Kwan Lim (Uni of Melbourne), Prue McRae (IMS), Nancye Peel (UQ), Adrienne Young (Nutrition and Dietetics)	CHERISH Collaborative for Hospitalised Elders: Reducing the Impact of Stays in Hospital
Priya Cherian (Radiology, RBWH)	Claire Blake (Nutrition and Dietetics), Mark Appleyard (Gastro)	Radiologically inserted gastrostomy (RIG) an Interventional Radiology Procedure that promotes high value healthcare.
Lynda Ross (Griffith, RBWH)	Robin Hay (Nutrition and Dietetics), Angela Byrnes (Nutrition and Dietetics)	Healthy Eating and Lifestyle Program (HELP) intervention evaluation and follow up
Annette Collins (Speech Pathology, RBWH)	Clare Burns (Speech Pathology), Claire Blake (Nutrition and Dietetics), Teresa Brown (Nutrition and Dietetics), Jane Crombie (Speech Pathology), Liz Kenny (Cancer Care), Phil Greenup, Daniel Best (Telehealth), Liz Ward (UQ)	In home model of care telehealth for head and neck post-treatment - efficiency and efficacy
Judy Bauer (UQ)	Teresa Brown (Nutrition and Dietetics), Merrilyn Banks (Nutrition and Dietetics), Brett Hughes (Cancer Care), Charles Lin (Cancer care), Liz Kenny (Cancer Care), Louise Campbell (Qld PET Service)	Comparison of body composition methods in head and neck cancer patients undergoing chemoradiotherapy – PET-CT vs BIA
Jude Maher, Lauren Hurst (USC)	Susan de Jersey (Nutrition and Dietetics)	Health priorities of women during pregnancy: A discrete choice experiment
Jude Maher (USC)	Susan de Jersey (Nutrition and Dietetics); Gary Slater, Chris Askew, Elizabeth Swanepoel, Nina Melloncelli	The CHANGE study (body Composition, pHysical Activity, pregNancy, enerGy metabolism, diEt); Investigating womens' body composition change during pregnancy
Loris Pironi (Home Artificial Nutrition Group, ESPEN)	Emma Osland (Nutrition and Dietetics)	International benchmarking of Home Parenteral Nutrition service provision and validation of ESPEN chronic intestinal failure classifications.
Louise Cooney (PAH)	Teresa Brown (Nutrition and Dietetics), Eliza Kern (Nutrition and Dietetics), Suzie Ahern (Nutrition and Dietetics), Liz Kenny (Cancer Care), Brett Hughes (Cancer Care)	Comparison of nutrition and clinical outcomes in H&N cancer patients following reactive and proactive nutrition support approaches
Leonie Callaway (Women's and Newborns)	Marloes Dekker (UQ), David Paterson (Infectious Diseases), Helen Barrett (Women's and Newborns), Susan de Jersey (Nutrition and Dietetics)	Is the resistome in the gut microbiome in pregnant women changing pregnancy outcomes?
Helen Barrett	Leonie Callaway (Women's and Newborns), David McIntyre, Marloes Dekker (UQ), Michael D'Emden (Endocrinology), Susan de Jersey (Nutrition and Dietetics)	Postprandial triglycerides in diabetes in pregnancy: A pilot study

Research Awards and Achievements

Recipient	Award	Event
Jane Musial	Overall winner, People's choice, Partnership category	My Translation Rules (BDHP)
Sarah Andersen	Highly Commended	My Translation Rules (BDHP)
Claire Gardiner	Education category	My Translation Rules (BDHP)
Claire Dux	Collaboration category	My Translation Rules (BDHP)
Susie de Jersey	Highly Commended, PEN prize	DAA national conference
Teresa Brown	Winner, Best Clinical Science Oral	25th Annual RBWH Healthcare Symposium 2016
Teresa Brown	Dr Alf Howard International Travel Scholarship	School of Human Movement and Nutrition Sciences, UQ
Teresa Brown	Best Presentation in the Nutrition & Dietetics session	School of Human Movement and Nutrition Sciences Postgraduate Conference, UQ

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Susan de Jersey	Nutrition and Dietetics	Projects promoting healthy weight gain in pregnancy	Advance Old Women's Academic Fund	\$10,500	\$10,500 (2016)
Teresa Brown	Nutrition and Dietetics	Does early commencement of nutrition support in patients with head and neck cancer improve outcomes?	Menzies Foundation	\$55,000	\$55,000 (2016)
Sarah Andersen	Nutrition and Dietetics	Early nutrition support in patients undergoing BMT	RBWH research scholarship	\$25,000	\$25,000 (2016)
Kathleen Dwyer	Nutrition and Dietetics	Pre-higher research degree scholarship	Collaborative for Allied Health Research Learning and Innovation (MNHHS)	\$12,000	\$12,000 (2016)
Carrie-Anne Lewis, Susie de Jersey, George Hopkins, Ben Dodd, Kathleen Bradley	Nutrition and Dietetics, Surgery	Dietetic Extended Scope of Practice Model of Care for nutritional biochemistry monitoring in a surgical weight management clinic.	HP Research Scheme	\$12,500	\$25,000 (2016-2017)
Annette Collins, Clare Burns, Claire Blake , Jane Crombie, Elizabeth Ward, Teresa Brown	Speech Pathology, Nutrition and Dietetics	Evaluation of a telepractice model for providing home swallowing and nutrition management for patients following health and neck cancer	HP Research Scheme	\$11,405.50	\$22,811 (2016-2017)
Leonie Callaway, Marloes Dekker, David Paterson, Helen Barrett, Susan de Jersey	Women's and Newborns, Nutrition and Dietetics	Is the resistome in the gut microbiome in pregnant women changing pregnancy outcomes?	RBWH Foundation	\$38,968	\$38,968 (2016)
Helen Barrett, Leonie Callaway, David McIntyre, Marloes Dekker, Michael D'Emden, Susan de Jersey	Women's and Newborns, Endocrinology, Nutrition and Dietetics	Postprandial triglycerides in diabetes in pregnancy: A pilot study	RBWH Foundation	\$36,740	\$36,740 (2016)
Mudge A, Banks M, Barnett A, Blackberry I, Chang A, Graves N, Hubbard R, Inouye S, Kurrle S, Lim K, McRae P, Peel N, Young A	Internal Medicine and Aged Care, Nutrition and Dietetics	CHERISH Collaborative for Hospitalised Elders: Reducing the Impact of Stays in Hospital	Accelerate Partnership Grant	\$533,333	\$1,600,000 (2015-17)
Mudge, A, Hubbard R, Gray L, Beattie E, Graham F, McRae P, Banks M	Internal Medicine and Aged Care, Nutrition and Dietetics	Older Person Friendly Hospital	BDHP strategic initiative grant	\$12,500	\$25,000 (2016-17)
Hickman I, Wilkinson S, Hill J, Banks M, Young A, McCray S, Campbell M, Osborne S	Nutrition and Dietetics	Dietetics Research Translation Award	BDHP strategic initiative grant	\$10,000	\$20,000 (2016-17)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Banks M, Ross L, Webster J, Mudge A, Stankiewicz M, Dwyer K, et al. Pressure ulcer healing with an intensive nutrition intervention in an acute setting: a pilot randomised controlled trial. <i>Journal of Wound Care</i> . 2016;25(7):384-92.
Journal article	Brown T, Banks M, Hughes B, Lin C, Kenny L, Bauer J. Comparison of nutritional and clinical outcomes in patients with head and neck cancer undergoing chemoradiotherapy utilizing prophylactic versus reactive nutrition support approaches. <i>J Academy of Nutrition & Dietetics</i> . 2016;in press.
Journal article	Brown T, Getliffe V, Banks M, Hughes B, Lin C, Kenny L, et al. Validation of an updated evidence-based protocol for proactive gastrostomy tube insertion in patients with head and neck cancer. <i>European Journal of Clinical Nutrition</i> . 2016;70(5):574-81.
Journal article	Brown T, Wittholz K, Way M, Banks M, Hughes B, Lin C, et al. Investigation of p16 status, chemotherapy regimen and other nutrition markers for predicting gastrostomy in patients with head and neck cancer. <i>Head Neck</i> . 2016;in press.
Journal article	Brown TE, Crombie J, Spurgin AL, Tripcony L, Keller J, Hughes BG, et al. Improving guideline sensitivity and specificity for the identification of proactive gastrostomy placement in patients with head and neck cancer. <i>Head & Neck</i> . 2016;38(Suppl 1):E1163-71.
Journal article	Chaboyer W, Bucknall T, Webster J, McInnes E, Gillespie BM, Banks M, et al. The effect of a patient centred care bundle intervention on pressure ulcer incidence (INTACT): A cluster randomised trial. <i>International Journal of Nursing Studies</i> . 2016;64:63-71.
Journal article	de Jersey SJ, Mallan K, Callaway L, Daniels LA, Nicholson JM. A Cross Sectional Comparison of Predisposing, Reinforcing and Enabling Factors for Lifestyle Health Behaviours and Weight Gain in Healthy and Overweight Pregnant Women. <i>Maternal and Child Health Journal</i> . 2016:1-10.
Journal article	Hannan-Jones M, Capra S. Developing a valid meal assessment tool for hospital patients. <i>Appetite</i> . 2017;108:68-73.
Journal article	Mallan KM, Sullivan SE, de Jersey SJ, Daniels LA. The relationship between maternal feeding beliefs and practices and perceptions of infant eating behaviours at 4 months. <i>Appetite</i> . 2016;105:1-7.
Journal article	Marshall S, Reidlinger DP, Young A, Isenring E. The nutrition and food-related roles, experiences and support needs of female family carers of malnourished older rehabilitation patients. <i>Journal of Human Nutrition and Dietetics</i> . 2016 Jul 14. doi: 10.1111/jhn.12397.
Journal article	Marshall S, Young A, Bauer J, Isenring E. Malnutrition in Geriatric Rehabilitation: Prevalence, Patient Outcomes, and Criterion Validity of the Scored Patient-Generated Subjective Global Assessment and the Mini Nutritional Assessment. <i>Journal of the Academy of Nutrition and Dietetics</i> . 2016;116:785-94
Journal article	Marshall S, Young A, Bauer J, Isenring E. Nutrition Screening in Geriatric Rehabilitation: Criterion (Concurrent and Predictive) Validity of the Malnutrition Screening Tool and the Mini Nutritional Assessment - Short Form. <i>Journal of the Academy of Nutrition and Dietetics</i> . 2016;116:795-801.
Journal article	Osland, E., R. M. Yunus, S. Khan, T. Alodat, B. Memon and M. A. Memon (2016). "Postoperative Early Major and Minor Complications in Laparoscopic Vertical Sleeve Gastrectomy (LVSG) Versus Laparoscopic Roux-en-Y Gastric Bypass (LRYGB) Procedures: A Meta-Analysis and Systematic Review." <i>Obes Surg</i> 26(10): 2273-2284.
Journal article	Osland, E., R. M. Yunus, S. Khan, B. Memon and M. A. Memon (2016). "Changes in Non-Diabetic Comorbid Disease Status Following Laparoscopic Vertical Sleeve Gastrectomy (LVSG) Versus Laparoscopic Roux-En-Y Gastric Bypass (LRYGB) Procedures: a Systematic Review of Randomized Controlled Trials." <i>Obesity Surgery</i> : 1-14.
Journal article	Osland, E., R. M. Yunus, S. Khan, B. Memon and M. A. Memon (2016). "Diabetes improvement and resolution following laparoscopic vertical sleeve gastrectomy (LVSG) versus laparoscopic Roux-en-Y gastric bypass (LRYGB) procedures: a systematic review of randomized controlled trials." <i>Surgical Endoscopy</i> : 1-12.
Journal article	Osland, E., R. M. Yunus, S. Khan, B. Memon and M. A. Memon (2016). "Late Postoperative Complications in Laparoscopic Sleeve Gastrectomy (LVSG) Versus Laparoscopic Roux-en-y Gastric Bypass (LRYGB): Meta-analysis and Systematic Review." <i>Surgical Laparoscopy Endoscopy & Percutaneous Techniques</i> 26(3): 193-201.
Journal article	Roberts S, McInnes E, Wallis M, Bucknall T, Banks M, Chaboyer W. Nurses' perceptions of a pressure ulcer prevention care bundle: a qualitative descriptive study. <i>BMC nursing</i> . 2016;15(1):64.
Journal article	Ross L, Chong SH, Mason B, Healy H. Development and Evaluation of a Scored Sodium Questionnaire–Screening Form for Kidney Disease Patients. <i>Journal of Renal Nutrition</i> . 2016;26(3):159-67.
Journal article	Ross LJ, Wallin S, Osland EJ, Memon MA. Commercial Very Low Energy Meal Replacements for Preoperative Weight Loss in Obese Patients: a Systematic Review. <i>Obesity Surgery</i> . 2016;26(6):1343-51.
Journal article	Young A, Allia A, Jolliffe L, de Jersey S, Mudge A, McRae P, et al. Assisted or Protected Mealtimes? Exploring the impact of hospital mealtime practices on meal intake. <i>Journal of advanced nursing</i> . 2016;72(7):1616-25.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Ellick, J., de Jersey, S., Lewis, C., Young, A., Rogers, L., M., B. and Juffs, P. (2016). Bistro versus centrally plated meal service: Comparing patient intake and satisfaction in a sub-acute setting. Dietitians Association of Australia . Melbourne.
Oral	Young, A., Banks, M., Mudge, A., Demedio, K. and Isenring, E. (2016). Hospital to home outreach for malnourished elders: Evaluating dietetic support for older people after hospital discharge. Dietitians Association of Australia . Melbourne.
Oral	Nelson, C., Banks, M., Hannan-Jones, M. and Finlayson, K. (2016). Measuring nutrition status of community dwelling adults with chronic leg and foot ulcers: a systematic review and pilot study. Dietitians Association of Australia . Melbourne.
Oral	Morgan, K., Young, A. and Banks, M. (2016). Patient experience with nutrition care 2: 'It's not their job': Qualitative study in the sub-acute hospital setting. Dietitians Association of Australia . Melbourne.
Oral	Hatzirodos, M., Ellick, J., Hannan-Jones, M., Banks, M. and Rogers, L. (2016). Comparing paper menu to electronic menu ordering: Is the key to improving satisfaction and nutritional intake in hospital patients a spoken menu? Dietitians Association of Australia . Melbourne.
Oral	Guthrie, T. and de Jersey, S. (2016). Towards person-centred maternity care for overweight and obese women: A qualitative evaluation of midwives' perceptions across models of care. Dietitians Association of Australia . Melbourne.
Oral	Newman, C., Cornwell, P., Ward, E., McErlain, A. and Young, A. (2016) Exploring an extended scope for rural allied health assistant (AHA) role in nutrition and dietetics: Can AHAs assist in malnutrition assessment? Services for Australian Rural and Remote Allied Health . Port Lincoln.
Oral	Osland, E., Blake, C. and Lasenby, K. (2016) How can we serve you better?" Consumer and clinician engagement insights for our home parenteral nutrition service. Australasian Society for Parenteral and Enteral Nutrition Annual Scientific Meeting . Melbourne.
Oral	Blake, C., Osland, E. and Lasenby, K. "How can we serve you better?" Consumer and clinician engagement insights for our gastrostomy service. Australasian Society for Parenteral and Enteral Nutrition Annual Scientific Meeting ; Melbourne.
Oral	Ross, L., Chong, SH., Mason, B. and Healy, H. (2016) A short questionnaire for screening sodium intakes - a first step to effective blood pressure management. International Congress of Dietetics . Granada.
Poster	Brown T, Wittholz K, Wockner L, Banks M, Hughes B, Lin C, Kenny L, Bauer J. (2016). Investigation of p16 status, chemotherapy regimen and other nutrition markers for predicting gastrostomy in patients with head and neck cancer. Multinational Association of Supportive Care in Cancer , Adelaide
Poster	Sassano, T., Ross, L. and Hay, R. (2016). Do overweight and obese men and women require different lifestyle interventions? Dietitians Association of Australia . Melbourne.
Poster	Roddick, J., Young, A., Gallegos, D. and Banks, M. (2016). Patient experience with nutrition care 4: A survey of current methods used in Australian hospitals. Dietitians Association of Australia . Melbourne.
Poster	Roddick, J., Young, A., Gallegos, D. and Banks, M. (2016). Patient experience with nutrition care 3: 'A missed opportunity': Qualitative study in the acute hospital setting. Dietitians Association of Australia . Melbourne.
Poster	Robertson, T., Young, A. and Banks, M. (2016). Patient experience with nutrition care 1: Developing a qualitative methodology. Dietitians Association of Australia . Melbourne.
Poster	Juffs, P., Rogers, L., Ellick, J., Banks, M., Hannan-Jones, M., McMaster, J., Mok, K., Handley, S., Galton, A. and Suter, J. (2016). Can large hospitals serve decent toast efficiently? And does it improve patient satisfaction and consumption? Dietitians Association of Australia . Melbourne.
Poster	Ross, L., Osland, E., Wallin, S. and Ashraf, M. (2016) Feasibility of commercial meal replacement products prior to elective surgery in obese patients: A systematic review. International Congress of Dietetics . Granada.
Poster	Barry A, Bolton E, Callaghan A, Carswell A, de Jersey SJ, Dowey C, McIntyre D, Smith L, Soan E, Wilkinson S, Peacock A. Gestational Diabetes Mellitus e-learning series for health professionals. Australasian Diabetes in Pregnancy Society Annual Scientific Meeting, Gold Coast 2016 (poster)
Poster	de Jersey SJ; Mallan K, Callaway LK, Daniels LA and Nicholson JM. Previous weight management experiences are important: lifestyle specific health cognitions associated with excess gestational weight gain. Australian and New Zealand Obesity Society Scientific Meeting, Brisbane, 2016
Poster	Mallan KM, Daniels LA, Byrne R, de Jersey SJ. Self - reported breastfeeding problems, use of infant formula and early cessation of breastfeeding. Similarities and differences between healthy weight and overweight mothers. Australian and New Zealand Obesity Society Scientific Meeting, Brisbane, 2016
Invited	Brown T. "Prophylactic enteral feeding" Treating the person, Managing the functionality: An Advanced Symposium for Health Professionals working in Head and Neck Cancer, Brisbane, 2016
Invited	Brown T, Banks M, Hughes B, Lin C, Kenny L, Bauer J. "Optimising nutrition outcomes in patients with head and neck cancer – the role of proactive gastrostomy tubes" CAHRLI Forum, May 23, Brisbane, 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Brown T. "Multidisciplinary team management of head and neck cancer – the role of the dietitian". Qld Chapter of the Cancer, Palliative Care and Lymphoedema Network, Australian Physiotherapy Association, April 19, Brisbane, 2016.
Oral	Cruikshank, D., Ellick, J. and Banks, M. (2016). Embedding quality audits into foodservices. <u>Dietitians Association of Australia</u> . Melbourne.
Oral	Young, A., Porter, J., Conchin, S., Huxtable S. (2016) Implementing complex healthcare interventions into practice. Protected mealtimes as a case study. <u>Dietitians Association of Australia</u> . Melbourne.
Invited	Brown, T. "A patient led nutrition assessment tool – the PGSGA". Research Forum, 10th International Head and Neck Quality of Life Conference, Liverpool, UK, 2016.
Oral	Cooney L, Brown T , Elvin-Walsh L, Kern E, Ahern S, Smith D, Kenny L, Hughes B , Porceddu S, Hickman I, Cartmill B "A comparison of prophylactic versus reactive tube feeding approaches on unplanned hospital admissions and weight loss in head and neck cancer patients receiving radiotherapy +/- chemotherapy" Clinical Oncological Society of Australia ASM, Gold Coast, 2016
Oral	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J. Does early feeding via a prophylactic gastrostomy improve quality of life in patients with head and neck mucosal SCC (HNSCC)? 10th International Quality of Life in Head and Neck Cancer Conference, Liverpool UK 2016
Oral	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J. Early feeding via a prophylactic gastrostomy – a randomised controlled trial in high risk head and neck mucosal SCC (HNSCC) patients. UQ School of Human Movement and Nutrition Sciences Post Graduate Conference, Brisbane 2016
Oral	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J. Early feeding via a prophylactic gastrostomy – preliminary findings from a randomised controlled trial in high risk head and neck mucosal SCC (HNSCC) patients undergoing chemoradiotherapy. 25th Annual Royal Brisbane & Women's Hospital Healthcare Symposium, Brisbane 2016.
Poster	Blake C, Lai R, Moroney L, Helios J, Hughes B, Chua B, Bauer J, Brown T "Nutrition outcomes and toxicities following H-IMRT in patients with head and neck cancer" Clinical Oncological Society of Australia ASM, Gold Coast, 2016
Poster	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J "Understanding initiation of nutrition support in patients with head and neck cancer (HNC) and adherence to recommendations – a patient perspective" Clinical Oncological Society of Australia ASM, Gold Coast, 2016
Poster	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J. Prophylactic gastrostomy use post treatment in patients with head and neck cancer (HNSCC) – is there really a problem? 10th International Quality of Life in Head and Neck Cancer Conference, Liverpool UK 2016
Poster	Brown T, Banks M, Hughes B, Lin C, Kenny L , Bauer J "Early feeding via a prophylactic gastrostomy – preliminary findings from a randomised controlled trial in high risk head and neck mucosal SCC (HNSCC) patients undergoing chemoradiotherapy" Australia and New Zealand Head and Neck Cancer Society (ANZHNCs), Auckland, 2016
Poster	Brown T, Chan A, Dwyer K, Banks M, Hughes B, Lin C, Kenny L , Crombie J, Spurgin AL, Bauer J "Validation of a protocol to predict proactive gastrostomy tube placement in patients with head and neck cancer receiving Helical-Intensity Modulated Radiotherapy" Australia and New Zealand Head and Neck Cancer Society (ANZHNCs), Auckland, 2016
Oral	Nelson C, Banks M, Hannan-Jones M , Finlayson K "Chronic wounds and nutrition: confidence of health professional in their knowledge and abilities" World Union of Wound Healing Societies, Italy, 2016
Oral	Nelson C, Banks M, Hannan-Jones M , Finlayson K "Malnutrition practices of Australian health professionals working with people with chronic wounds" Wounds Australia, Melbourne, 2016

Other Communications and Outputs

Researcher	Media Outlet	Title	Date	Link
Susie de Jersey	Channel Nine News	Weight gain in pregnancy	18 th March 2016	
Young A, Allia A, Jolliffe L, de Jersey S, Mudge A, McRae P, Banks M	Journal of Advanced Nursing blog and podcast	Protected mealtimes – worth the effort?	23 rd March 2016	www.journalofadvancednursing.blogspot.com.au/2016/03/protected-mealtimes-worth-effort.html
Susie de Jersey S	Q Weekend	Fat State	23 rd July 2016	www.couriermail.com.au/news/queensland/qweekend-when-will-queensland-wake-up-to-obesity-epidemic/news-story/2bf9879a08abc05046b0e7dbfe05e63f

Research Publications / Presentations Summary Table Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Nutrition and Dietetics	20	0	22	15



CAHRLI Awards

Department of Occupational Therapy

Occupational Therapy, RBWH has a pro-active research culture, participates in and applies contemporary research and evidence to maximise patient function and outcomes in clinical practice. Occupational Therapy works collaboratively with health care consumers, internal and external stakeholders through local and service-wide networks and research collaborations with OT professional and multidisciplinary partners, state wide & internationally. Expanding and integrating research activity into daily practice continues to be a key action for OT and outcomes for 2016 include development of OT research framework, development for OT governance protocol to prioritise research support, approval of 4 new projects, expanded research and service improvement outputs (new initiatives and completed projects) and delivery of formal research education via the OT meeting and OT Skills Development Program.

Some identified clinical benefits of the 2016 research projects include:

1. Identifying factors which predict adherence to pressure garments for patients with Burns.
2. Comparing current upper limb & stroke rehabilitation for stroke patients with recommended guidelines.
3. Evaluation of the effectiveness of conservative management of carpal tunnel syndrome as an alternative pathway of care.
4. Development of tools and training methods to support the development of Occupational Therapy.
5. Application of activity pacing as a treatment strategy to reduce the development of habitual overactive behaviour in patients with chronic pain.
6. Evaluation of interventions used for patients with chronic diseases including orthopaedic conditions (OT OPSC) & chronic pain (Mind body program).

Anticipated outcomes of these projects will assist determine best care, improved intervention pathways and patient compliance.

Other highlights for OT research in 2016 include increased collaborations with state wide and international stakeholders, recognition of 4 staff members in research practice including Australian Hand Therapy best poster award, high commendation in MNHHS Research Excellence Awards and elite reviewer award for a prestigious journal (see section 6).

Occupational Therapy continues to embrace research as an integrated component to clinical practice and daily patient care. Looking forwards to the future, key directions for 2017 include:

- Expanding collaborations and partnerships with university networks.
- establishment of OT Research Co-ordinator role.
- Expanded post-graduate research & candidates linked to role outputs.
- Progressing research through new awarded grants.



Supervised Post-graduate Research Students

Name	Media Outlet	Title	Date	Link
Susie de Jersey	Channel Nine News	Weight gain in pregnancy	18 th March 2016	

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Nicole Andrews	Honorary Lecturer	School of Health and Rehabilitation Sciences	University of Queensland (2015- 2016)

Current RBWH Led Research Activity

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
Tennille Rowland	Sue Laracy, Giovanna Tornatore, Beverley Lewis, Simon Finnigan	Occupational therapy stroke audit: Measuring compliance of occupational therapy practice with evidence-based guidelines
Sue Laracy	Cate Fitzgerald, Merryl Turpin, Beverley Lewis	Supporting the transition to practice of new graduate occupational therapist using a clinical education framework.
Kirsten Cook	Sue Laracy, Simon Finnigan	Evaluation of the Primary Contact Occupational Therapy Hands Pathway in the Treatment of Carpal Tunnel Syndrome
Michelle Donovan	Michael Muller, Jennifer Paratz, Zephania Tyack	Interim Pressure Garment Therapy: An investigation into the use of low level pressure therapy for burns donor site support and scar management.
Sarah Kekki	Giovanna Tornatore, Chris Barr	What is the current level of Occupational Therapy upper limb practice intensity in an inpatient rehabilitation unit for stroke patients? An observational study.
Nicole Coghlan	Dr Jenny Strong, Dr Jodie Copley, Dr Tammy Aplin, Ms Sue Laracy	Patient experiences of wearing compression garments post burn injury
Nicole Andrews	Marlien Varnfield, David Ireland	Towards understanding how much is too much for individuals with chronic pain
Nicole Andrews	Sue Laracy	Evaluation of occupational therapy interventions within the orthopaedic physiotherapy screening clinic
Linda Atkinson	Nicole Andrews, Sue Laracy , Helen Rowe	Evaluation of a mind body program for individuals with chronic pain



Other Current Collaborative Research Activity

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Emma Schleiger	Simon Finnigan, Andrew Wong, Stephen Read, Tennille Rowland	Quantitative EEG in Stroke: Role of Quantitative EEG in diagnosis, prognostication and management of acute stroke.
Shanithi Kanagarajah	Sue Laracy, Kana Appadurai, Kathleen Richter, Gisela Brittain	Hospital Wide clinician led audit of patients requiring sub acute care in a large tertiary hospital
Lynn DeBar (Kaiser Permanente Centre for Health Research, Portland, USA) Meghan Mayhew (Kaiser Permanente Centre for Health Research, Portland, USA)	Nicole Andrews (Occupational Therapy)	PPACT Administrative Supplement for Research on Sleep Disturbances and Impact on Chronic Pain

Research Awards and Achievements

Recipient	Award	Event
Cherie Aceto, Kirsten Cook and Sue Laracy	The Leanne Breen Award for The Best Poster 'Queensland Health State-wide Implementation of a Primary Contact Occupational Therapist Hands Model of Care'	The Australian Hand Therapy Association National Conference, August 2016.
Nicole Andrews	Highly commended award in the chronic disease category	Metro North Hospital and Health Service District 2015 Research Excellence Awards, May 2016
Nicole Andrews	Elite reviewer award for Archives of Physical Medicine and Rehabilitation	

Research Grants - Awarded

Investigators RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Kirsten Cook, Sue Laracy, Michelle Stute and S Senewiratne	Occupational Therapy Department	Evaluation of First Contact Hand Clinic at RBWH	AHPOQ	\$27,162	\$27 162 (2015-2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Andrews, N., Strong, J., Meredith, P., & Fleming J. (2016). The relationship between overactivity and opioid use in chronic pain: A five day observational study. Pain, 157, 466-474. doi: 10.1097/j.pain.0000000000000384
Journal article	Donovan, M.L., Muller. M. J., Simpson. C., Rudd, M., Paratz. J. (2016) Interim pressure garment therapy (4 – 6mmHg) and its effect on donor site healing in burns patients: a study protocol for a randomised controlled trial. Trials 17:214 DOI 10.1186/s13063-016-1329-x
Journal article	Schleiger E, Wong A, Read S, Rowland T, Finnigan S. Poststroke QEEG informs early prognostication of cognitive impairment. Psychophysiology. 2016. doi: 10.1111/psyp.12785
Journal article	Andrews, N., Deen, M. (2016). Defining activity pacing: Is it time to jump off the merry-go-round? Journal of pain, 17 (12), 1359-1362. doi: 10.1016/j.jpain.2016.05.001

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Schleiger E, Wong A, Rowland T , Read S, Finnigan S . Quantitative EEG in Stroke: Role of Quantitative EEG in diagnosis, prognostication and management of acute stroke. RBWH Healthcare Symposium, October 2016.
Oral	Rowland T . Clinical challenges of referring patients following stroke to occupational rehabilitation services. Quarterly Brain Injuries Services Meeting, PAH, March 2016.
Oral	Rowland T . Clinical challenges of referring patients following stroke to occupational rehabilitation services. Statewide Stroke Forum, Hervey Bay. May 2016.
Oral	Turpin M, Fitzgerald C, S Laracy . Supporting New Graduate Occupational Therapists. Qualitative Health Research Conference, Canada, September 2016.
Poster	Aceto C, Cook K, Laracy S . Queensland Health State-wide Implementation of a Primary Contact Occupational Therapist Hands Model of Care. The Australian Hand Therapy Association National Conference, August 2016.
Invited	Andrews N . Overactivity in chronic pain. 2016 Mind and Pain in Motion Symposium. Bochum, Germany, June, 2016.
Invited	Andrews N . Translation of research into clinical practice within the Professor Tess Cramond Multidisciplinary Pain Centre. 2016 RBWH healthcare symposium. Brisbane, September, 2016.
Oral	Rowland T, Lewis B , Tornatore G, Laracy S. Measuring compliance of occupational therapy practice with evidence-based stroke guidelines. Statewide Stroke Clinical Network Forum, Gold Coast. November 2016.
Poster	Coghlan N , Copley J, Aplin T, Strong J. Patient experiences and decisions influencing the wearing of compression garments post burn injury. Australian and New Zealand Burn Association Scientific Meeting, Auckland, October 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Department of Occupational Therapy	4	0	7	2



Department of Physiotherapy

Aims of research group / department

The Department of Physiotherapy research program is diverse and is reflective of the broad range of physiotherapy services delivered to both inpatients and outpatients of the RBWH who have or potentially have an underlying movement dysfunction. Services are provided across a range of quaternary, tertiary and secondary services including medicine, surgery, neurosurgery, orthopaedics, critical care, burn, rehabilitation, trauma services, oncology obstetrics, gynaecology, neonatology and other musculoskeletal, neurological and cardiorespiratory specialties. The physiotherapy research program is aimed at establishing and embedding a culture of exploration and inquiry, that encourages all staff to participate in the process of improving both the clinical outcomes of clients, and the effectiveness and efficiency of physiotherapy services.

Clinical benefits of research / how does your research help your patients

The high level of collaboration between dedicated research staff and physiotherapy clinical teams ensures that the translation of research into clinical practice is central to the program and can deliver immediate benefits to patients. Research translation highlights include:

- Primary contact physiotherapy services research in vestibular, pelvic health and musculoskeletal outpatients, along with primary contact emergency department services, has resulted in earlier access for patients to the right care pathway to better manage their condition.
- Research into telerehabilitation is delivering access to appropriate multidisciplinary care, directly into the homes of patients with complex non-surgical musculoskeletal conditions, who live in geographically remote locations.
- Physiotherapy extended scope of practice research is facilitating patients to gain earlier access to appropriate pain relief as part of their physiotherapy management in the emergency department.

In addition to these particular research areas of focus, projects investigating heart failure management, 3-dimensional motion analysis for patients with movement dysfunction, burns and critical care management, lymphoedema and pre-entry student education are underway to improve the level of physiotherapy service provided.

Achievements

2016 was another successful research year for the Department of Physiotherapy with 24 peer reviewed publications, 14 national and international conference presentations and close to \$300,000 in competitive grant funding. Five staff are currently completing research higher degrees with a further 15 being supervised by researchers within the physiotherapy department and two physiotherapy research staff received awards at the 2016 CAHRLI symposium. 2016 also saw the Queensland Motion Analysis Centre led by Dr Robyn Grote merge into the Department of Physiotherapy, bringing 3-dimensional motion analysis capability and research opportunities to the department.

Research Collaborations

The Department of Physiotherapy continues to enjoy strong research collaborations at a local, national and international level. In particular, Conjoint Research Fellow positions with Griffith University (Assoc Prof Jenny Paratz) and the University of Queensland (Dr Shaun O'Leary) continued in 2016 with significant benefit to physiotherapy research output through both their individual research programs and the engagement of clinical staff in research activities. The department has a clear vision to build on this by further developing the engagement of all physiotherapy staff in research activities that span the full range of clinical services provided.

"Being able to access treatment direct into my house has been fantastic. I probably wouldn't have been able to travel the distance to the hospital because of my commitments here on the farm.....in fact, as soon as I finish this appointment I'll be heading out to muster the sheep!" Rural client accessing direct to home telerehabilitation.



Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Alan Wan	PhD UQ (2016-2019)	Movement Evoked Pain Sensitivity in Chronic Spinal Pain	Shaun O'Leary , Michael Sullivan, Michelle Sterling
Bernadette Bissett	PhD UQ (Completed, awarded February 2016)	Inspiratory muscle training in ventilated patients	Jennifer Paratz, Rob Boots
Deokhoon Jun	PhD UQ (2013-2017)	A longitudinal study of risk factors for neck pain in office workers. workers	Shaun O'Leary , Venerina Johnston, Steven McPhail
Elise Gane	PhD UQ (2013-2017)	Identifying risk factors for poor functional recovery of the neck and shoulder after neck dissection surgery in patients with head and neck cancer.	Shaun O'Leary, Steven McPhail, Anna Hatton
Ian Parker	PhD, ACU (2013-2019)	The Prevalence, Profile and Efficacy of conservative management for Hospital Ear Nose and Throat Category 2 and 3 wait list patients with vestibular dysfunction.	Nancy Low Choy, Ann Rahman, Tracy Comans, David Goode
Jemima Boyd	MPhil, Griffith (2016-2018)	Haemodynamic measurement in mobility post cardiac surgery	Jennifer Paratz, James Walsh
Judith Bellapart	PhD UQ (2013-2017)	Cerebral microcirculation in head injury: an ovine model	John Fraser, Jennifer Paratz, Rob Boots
Julie Adsett	PhD, Griffith (2013-2018)	Hydrotherapy in heart failure	Norm Morris, Allison Mudge, Jennifer Paratz
Khalid Jaber	MPhil UQ (2015-2017)	Pain sensory and psychological predictors of response to total knee replacement:	Shaun O'Leary , Michael McAuliffe, Michelle Sterling
Lauren O'Connor	PhD, Griffith (2015-2018)	The effect of the Passy Muir valve on postural retraining	Jennifer Paratz, Norm Morris
Maureen Peasy		Physical activity in COPD	Jennifer Paratz, Norm Morris
Michelle Cottrell	PhD, UQ (2015-2019)	Evaluating the impact of a telerehabilitation model of care in an orthopaedic physiotherapy-led screening clinic & multidisciplinary service	Trevor Russell, Shaun O'Leary , Anne J Hill, Tracy Comans
Michelle Spermon	PhD UQ (2013-2016) Completed awarded February 2016	Pressure garments on donor sites in burns	Jennifer Paratz , Michael Muller, Zephania Tyack
Michelle McGrath	MPhil, QUT (2014-2017)	"The use of 3 dimensional motion analysis to determine whether quantitative criteria can be found for the Prechtl's Qualitative Assessment Method of General Movement (GMsA) classifications of writhing and fidgeting in the normative infant population"	Ian Turner, Robyn Grote , Joe Young, Mark Percy
Olivia Galea	PhD UQ (2015-2018)	The role of cervical musculoskeletal impairment in concussion	Shaun O'Leary , Julia Trelevan

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Orlando Flores	PhD UQ (2014-2018)	Metabolism in Burns	Jennifer Paratz, Kellie Stockton, Zephania Tyack
Peter Window	PhD UQ (2013-2017)	2D motion analysis measurements in low back pain	Shaun O'Leary , Kylie Tucker, Paul Hodges, Trevor Russell
Rebecca Kelly	MPhil, Griffith (2015-2017)	Factors predicting daily physical activity post heart transplantation	Jennifer Paratz, Norm Morris
Xiaoqi Chen	PhD UQ (2013-2017)	A workplace-based exercise intervention to prevent and reduce the economic and personal burden of non-specific neck pain in the office personnel	Venerina Johnston, Shaun O'Leary
Yaheli Bet-Or	PhD UQ (2013-2017)	Is there a difference in scapular kinematics between healthy controls and people with chronic neck pain?	Venerina Johnston, Shaun O'Leary

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Jennifer Paratz	Conjoint Principal Research Fellow	Multiple projects in the area of ICU and Burns	Griffith University (2014 -2019)
Shaun O'Leary	Conjoint Fellow	Multiple projects in the area of Musculoskeletal Physiotherapy and supervision of Honours, Masters & PHD students	University of Queensland (2016-2018)
Robyn Grote	Principal Research Fellow Qld Motion Analysis Centre, RBWH Adjunct Professor, Faculty of Health, QUT Honorary Senior Fellow, UQ Centre for Clinical Research	Projects in 3-dimensional motion analysis in newborns, & patients with severe burns Cost-effective analysis of the use of 3-dimensional gait analysis in the treatment of severe burns The development of a hypertonicity register for patients in S-E Qld.	University of Qld 2010- current QUT 2016- current

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Helen Edwards	Janelle Greitschus, Jenny Nucifora, Sonia Sam, Susanne Keys	Effectiveness of a Gynaecology Physiotherapy Screening Clinic (GPSC) in improving health outcomes and access to care for women on gynaecology outpatient waiting lists.
Hildegard Reul Hirche	Jennifer Paratz, Sonia Sam	Risk factors in lymphodema
Jennifer Paratz	Rob Boots (Thoracic Medicine) , Justin Kenardy (UQ CONROD), Fiona Coyer (RBWH & QUT Nursing) , Peter Thomas (Physiotherapy) , Tracy Comans (RBWH) , Jack Iwashyna (University of Michigan), Ignacio Martin-Loaches (University of Dublin), Carol Hodgson (Monash University), Bernadette Bissett (Canberra University)	Improving the outcome of sepsis: RCT
Jennifer Paratz	Geetha Kayambu (national University Hospital, Singapore), Rob Boots (Thoracic Medicine)	i-perform - Early rehabilitation in sepsis
Jennifer Paratz	Peter Thomas (Physiotherapy) , Kellie Stockton (LCCH)	Saline installation in respiratory therapy in ICU, a crossover study
Jennifer Paratz	Rob Boots (Thoracic Medicine) , Michael Muller (Surgery) , Rajeev Hegde (ICU) ,	Inhalation and right heart failure in burns

RBWH Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Jennifer Paratz	Jason Roberts (UQ, Pharmacy), Michael Muller (Surgery) , Kellie Stockton (LCCH), Rob Boots (Thoracic Medicine) , Orlando Flores (UQ Medicine)	Beta blocker therapy in burns: an RCT
Jennifer Paratz	Michael Muller (Surgery) , Anita Plaza (Physiotherapy) , Kellie Stockton (LCCH), Jonny Younger (Cardiology) , Orlando Flores (UQ, Medicine)	IMPACT- Improving physical and psychological outcomes in burns: an RCT
Jennifer Paratz	Kellie Stockton (LCCH), Rob Boots (Thoracic Medicine)	Exercise testing in the chronic critically ill
Jennifer Paratz	Jonny Younger (Cardiology) , Sanjoy Paul (QIMR), Kellie Stockton (LCCH)	Mortality in burns survivors
Jennifer Paratz	Jonny Younger (Cardiology) , Sanjoy Paul (QIMR), Kellie Stockton (LCCH)	Cardiovascular disease in burn survivors
Jennifer Paratz	Peter Thomas (Physiotherapy) , Alice Jones, George Ntoumenopolous (SUT), Antonio Torres (University of Barcelona), Gianluigi (University of Barcelona)	Location Et identification of secretion retention in ICU patients
Jennifer Paratz	Michael Muller (Surgery) , Rob Boots (Thoracic Medicine)	Microcirculation as an endpoint to burn resuscitation
Joanna Hargreaves	Peter Thomas , Garry Kirwan	Development of a clinical educator survey tool for determining clinical placement quality - validity and reliability testing of the CPQS-E tool.
Kerina Denny	Jennifer Paratz (Physiotherapy) , David Paterson (Infectious Diseases) , Jeff Lipman (ICU) , Carl Pretorius (pathology) , Joel Dulhunty (ICU)	Biomarker for Sepsis to Thwart Antibiotic Overuse in the Intensive Care Unit
Mahender Samtani	Jennifer Paratz , Shaun O'Leary (Physiotherapy)	Management of Back Pain in DEM: an RCT
Maree Raymer	Angela Chang , Shaun O'Leary , Belinda Gavaghan (AHPOQ), Liza-Jane McBride (AHPOQ)	Investigating representation rates to orthopaedic and neurosurgery services in patients discharged from Physiotherapy Screening Clinics in Metro North Hospital and Health Service
Maree Raymer	Nicole Moretto , Angela Chang , Shaun O'Leary , Lachlan Standfield (Griffith University), Tracy Comans	Implementing economicsimulation modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient Services within Cairns and Hinterland, Gold Coast and West Moreton Hospital and Health Services (Background data collection)
Maree Raymer	Angela Chang , Shaun O'Leary , Nicole Moretto , Tracy Comans , Sonya Osborne (AushSI), Hannah Carter (AushSI), Dean Blond (Gold Coast), Tania Cavanagh (Cairns and Hinterland), David Smith (West Moreton)	Implementing simulation modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient services in the Cairns and Hinterland, Gold Coast and West Moreton Hospital and Health Services (Implementation evaluation)
Mark Cruickshank	Maree Raymer , Deborah Lenaghan, Darryn Marks, Sonia Sam , Tania Cavanagh, Lisa Nissen, Mark Nelson, Dean Blond, Rod Ellem, Cherie Hearn, Nicole Bellet	Physiotherapy Defined Scope of Practice (Prescribing)
Michelle Cottrell	Shaun O'Leary , Maree Raymer , Anne J Hill (UQ), Trevor Russell (UQ)	Validity and diagnostic accuracy of telerehabilitation in physiotherapy-led assessments of common musculoskeletal conditions.
Michelle Cottrell	Shaun O'Leary , Maree Raymer , Anne J Hill (UQ), Trevor Russell (UQ)	Evaluation of clinician's knowledge, acceptance and satisfaction of an innovative telehealth model of care for the multidisciplinary management of patients with chronic musculoskeletal conditions.
Michelle Cottrell	Shaun O'Leary , Maree Raymer , Anne J Hill (UQ), Tracy Comans , Mark Cruickshank , Perry Judd , Patrick Swete Kelly , Trevor Russell (UQ)	Telerehabilitation in the multidisciplinary management of patients with chronic musculoskeletal conditions: a prospective cohort study
Michelle Cottrell	Shaun O'Leary	Evaluating the impact of a telerehabilitation model of care in an orthopedic screening Et multidisciplinary service
Sarah Blatchford	Jennifer Paratz , Fiona Coyer (ICU Nursing) , Peter Thomas (Physiotherapy)	Identifying Ventilator Associated Torticollis and the significance in long term mechanically ventilated patients.
Shaun O'Leary	Stephen McPhail (PAH), Tracy Comans (Centre for Allied Health) , Maree Raymer , Asad Khan.	Optimising patient selection and resource utilization for the non-surgical management of common orthopaedic conditions
Shaun O'Leary	Stephen McPhail (PAH), Pim Kuipers (PAH), Megan Dalton	Do clinicians have the necessary skills to facilitate optimal utilisation of health services by patients with chronic musculoskeletal disorders?
Shaun O'Leary	Gwendolyn Jull (UQ), Stephen McPhail (PAH), Glen Volker , Peter Tonks (PAH)	Physical Therapy for Neck Pain – Are we moving in the right direction?

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Rohan Grimley	Brita Hughes	Building efficient and equitable pathways to and through rehab in stroke (BEEPRS)
Simon Miller (UQ)	Julie Adsett	Getting to the heart of the matter: What is the landscape of exercise rehabilitation for patients with HF in Australia?
Elise Gane	Shaun O'Leary	Identifying risk factors for poor functional recovery of the neck and shoulder after neck dissection surgery in patients with head and neck cancer.
Deokhoon Jun	Shaun O'Leary	A longitudinal study of risk factors for neck pain in office workers.
Tracy Comans	Shaun O'Leary, Maree Raymer	Are physiotherapy led screening clinics cost effective in improving orthopaedic outpatient services?
Venerina Johnston	Shaun O'Leary	A workplace-based exercise intervention to prevent and reduce the economic and personal burden of non-specific neck pain in the office personnel
Yaheli Bet-Or	Shaun O'Leary	Is there a difference in scapular kinematics between healthy controls and people with chronic neck pain?
Khalid Jaber	Shaun O'Leary	Pain sensory and psychological predictors of response to total knee replacement:
Xiaoqi Chen	Shaun O'Leary	Prevention and reduction of neck pain in office workers and the effect of a workplace- based intervention
Olivia Galea	Shaun O'Leary	The role of cervical musculoskeletal impairment in concussion
Alan Wan	Shaun O'Leary	Movement evoked pain sensitivity in chronic spinal pain
Michelle Stute	Peter Buttrum, Merrilyn Banks, Maree Raymer, Tracey Comans, Sonia Sam, Nicole Moretto, Marita Plunkett	Allied Health Specialist Clinics Project
Sandy Brauer (UQ, SHRS)	Jennifer Paratz (Physiotherapy)	IMproving Physical ACTivity with Treadmill training following stroke: the stroke-IMPACT trial
Sue Berney (Austin Hospital),	Jennifer Paratz (Physiotherapy) Linda Denehy (University of Melbourne), Dale Needham (John Hopkins University, USA), Ramona Hopkins (Brigham Young University)	Estim cycle early rehabilitation in ICU: RCT
Michael Muller	Jennifer Paratz, David Reutens (UQ), Hana Burianova (UQ), Joel Dulhunty (ICU)	Burn prevention, an advertising campaign utilizing functional MRI
Fiona Coyer	Jessica Ingleman, Anthony Holley, Peter Thomas, Greg McNamara, Mohsina Kahatun, Chris Edwards	Extreme II - Critically ill patient tissue reperfusion in two body positions and varied timed periods of load. RBWH
Matthew Linnane	Amanda Corley, Amy Spooner, Peter Thomas, Lawrence Caruana, Oystein Tronstadt, James Walsh, John Fraser	A comparison of the effects of manual hyperinflation and ventilator hyperinflation on restoring end-expiratory lung volume after airway suctioning.

Research Awards and Achievements

Recipient	Award	Event
Jennifer Paratz	Outstanding leadership in Allied Health research, Learning and Innovation	CAHRLI symposium 2016
Charlotte Hockey	Novice Researcher Award	CAHRLI symposium 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Brita Hughes , Dr Rohan Grimley	Physiotherapy Department RBWH, QLD statewide Stroke Clinical Network, Rehabilitation Clinical Network	Building efficient and equitable pathways to and through rehab in stroke (BEEPRS)	Sunshine Coast Hospital and Health Service	\$26,800	\$26,800 (2016)
Joanna Hargreaves , Peter Thomas , Garry Kirwan (Griffith Uni)	RBWH Physiotherapy Dept, CELM, Griffith University	Development of a clinical educator survey tool for determining clinical placement quality – validity and reliability testing of the CPQS-E tool	Directors Of Physiotherapy Services Queensland - CETI	\$11,062	\$22,124 (2016-2017)
Fiona Coyer, Jessica Ingleman, Anthony Holley, Peter Thomas , Greg McNamara, Mohsina Kahatun, Chris Edwards.	RBWH Physiotherapy Department, Burns Trauma and Critical Care Research Centre, School of Nursing, QUT	Critically ill patient tissue reperfusion in two body positions and varied timed periods of load: EXTREME pressure 2 study	Wound Management Innovation CRC	\$90,699	\$181,398 (2015-2016)
Maree Raymer , Tracy Comans , Shaun O'Leary , Angela Chang , Lachlan Standfield, Dean Blond, Tania Cavanagh, David Smith.	RBWH Physiotherapy and OPSC and MDS	Implementing simulation modelling to improve service planning in Specialist Orthopaedic and Neurosurgical Outpatient services	AushSI Implementation Grant.	\$75,000	\$150,000 (2016-2017)



2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Cottrell MA , Galea OA, O'Leary SP , Hill AJ, Russell TG. Real-time telerehabilitation for the treatment of musculoskeletal conditions is effective and comparable to standard practice: a systematic review and meta-analysis. <i>Clinical Rehabilitation</i> . (Online ahead of print).
Journal article	Hwang R, Morris NR, Mandrusiak A, Mudge A , Suna J , Adsett J , Russell T. Timed up and go test: A reliable and valid test in patients with chronic heart failure. <i>J Card Fail</i> . 2016.
Journal article	Gane EM, Michaleff ZA, Cottrell MA , McPhail SM, Hatton AL, Panizza B, O'Leary SP . Prevalence, incidence, and risk factors for shoulder and neck dysfunction after neck dissection: A systematic review. <i>European Journal of Surgical Oncology</i> . (accepted for publication – 01/11/2016).
Journal article	Scaddan E , Rowell J, O'Leary S . A preliminary case series evaluating the safety and immediate to short-term clinical benefits of joint mobilization in hemophilic arthritis of the lower limb. <i>Journal of Manual & Manipulative Therapy</i> . (accepted for publication – 30/10/2016).
Journal article	O'Leary S , Loraas Fagermoen C, Hasegawa H, Slettevold Thorsen AS, Van Wyk L. (2016) Differential strength and endurance parameters of the craniocervical and cervicothoracic extensors and flexors in healthy individuals - Technical Note. <i>Journal of Applied Biomechanics</i> . In Press (accepted – 11/10/2016).
Journal article	Marks D, Comans T , Thomas M, Ng SK, O'Leary S , Conaghan PG, Scuffham P, Bisset L. (2016) Agreement between a physiotherapist and an orthopaedic surgeon regarding management and prescription of corticosteroid injection for patients with shoulder pain. <i>Manual Therapy</i> . (accepted for publication – 2/10/2016).
Journal article	Marks D, Bisset L, Comans T , Thomas M, Ng SK, O'Leary S , Conaghan PG, Scuffham P. (2016) Increasing capacity for the treatment of common musculoskeletal problems: a non-inferiority RCT and economic analysis of corticosteroid injection for shoulder pain comparing a physiotherapist and orthopaedic surgeon. <i>PLoS ONE</i> 11(9): e0162679. doi: 10.1371/journal.pone.0162679.
Journal article	Standfield L, Comans T , Raymer M, O'Leary S , Moretto N, Scuffham P. (2016) The efficiency of increasing the capacity of physiotherapy screening clinics or traditional medical services to address unmet demand in orthopaedic outpatients: a practical application of discrete event simulation with dynamic queuing. <i>Applied Health Economics and Health Policy</i> .14(4):479-91. doi: 10.1007/s40258-016-0246-1
Journal article	Paratz J , Ntoumenopoulos G, Jones A. Management of the Critically Ill Patient In Denehy L, Main E <i>Cardiopulmonary Physical Therapy</i> , Churchill Livingstone Elsevier, London 2016
Journal article	Plaza A , Paratz J . Management Acute Burn Patient In Denehy L, Main E <i>Cardiopulmonary Physical Therapy</i> , Churchill Livingstone Elsevier, 2016
Journal article	Bellapart J , Abi-Fares C, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, Paratz J , Boots R , Fraser JF. Cerebral microcirculation during mild head injury after a contusion and acceleration experimental model in sheep. <i>Brain Inj</i> . 2016 Aug 26:1-10
Journal article	Bandeshe H , Boots R , Dulhunty J , Dunlop R, Holley A , Jarrett P , Gomersall CD, Lipman J , Lo T, O'Donoghue S, Paratz J , Paterson D , Roberts JA , Starr T , Stephens D, Stuart J , Thomas J, Udy A, White H. Is inhaled prophylactic heparin useful for prevention and Management of Pneumonia in ventilated ICU patients?: The IPHIVAP investigators of the Australian and New Zealand Intensive Care Society Clinical Trials Group. <i>J Crit Care</i> . 2016 Aug;34:95-102. doi: 10.1016/j.jcrc.2016.04.005.
Journal article	Bissett BM, Leditschke IA, Neeman T, Boots R , Paratz J . Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial. <i>Thorax</i> . 2016 Jun 2. pii: thoraxjnl-2016-208279. doi: 10.1136/thoraxjnl-2016-208279
Journal article	Bellapart J , Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, Paratz J , Boots R , Fraser J Cerebral microcirculation during experimental normovolaemic anaemia. <i>Front Neurol</i> 2016 http://dx.doi.org/10.3389/fneur.2016.00006
Journal article	Hockey CA , van Zundert A , Paratz JD . Does objective measurement of tracheal tube cuff pressures minimise adverse effects and maintain accurate cuff pressures? A systematic review and meta-analysis. <i>Anaesth & Intensive Care</i> 2016 44(5): 560-70
Journal article	Flores O, Stockton K, Roberts JA , Muller MJ , Paratz JD . The efficacy and safety of adrenergic blockade post burn injury: A systematic review and meta-analysis. <i>J Trauma Acute Care Surg</i> . 2016 Jan;80(1):146-55.
Journal article	Bissett B, Green M, Marzano V, Byrne S, Leditschke IA, Neeman T, Boots R , Paratz J . Reliability and utility of the Acute Care Index of Function in intensive care patients: An observational study. <i>Heart Lung</i> . 2016 Jan-Feb;45(1):10-4
Journal article	Paratz JD , Boots RJ . Dealing with the critical care aftermath: where to from here? <i>J Thorac Dis</i> . 2016 Sep;8(9):2400-2402. Invited editorial

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Gane EM, Michaleff ZA, Cottrell MA, McPhail SM, Hatton AL, Panizza B, O'Leary SP . Prevalence, incidence, and risk factors for shoulder and neck dysfunction after neck dissection: A systematic review. <i>European Journal of Surgical Oncology</i> . (accepted for publication – 01/11/2016).
Journal article	Jun D, Michaleff ZA, Johnston V, O'Leary S . Physical risk factors for developing non-specific neck pain in office workers: A systematic review and meta-analysis. <i>International Archives of Occupational and Environmental Health</i> . (accepted for publication – 01/11/2016).
Journal article	Singh B, Buchan J, Box R, Janda J, Peake J, Purcell A, Reul-Hirche H , Hayes S. Compression use during an exercise intervention and associated changes in breast cancer-related lymphedema, <i>Asia-Pacific Journal of Clinical Oncology</i> (2016) doi: 10.1111/ajco.12471
Journal article	Adsett J, Morris N , Kuys S, Hwang R, Mullins R, Khatun M, Paratz J, Mudge A . Aquatic Exercise Training is Effective in Maintaining Exercise Performance in Trained Heart Failure Patients: A Randomised Crossover Pilot Trial. <i>Heart Lung Circ</i> . 2016; S1443-9506(16) 31691-2.
Journal article	Skinner E, Thomas P , Reeve J, Patman S (2016): Minimum standards of clinical practice for physiotherapists working in critical care settings in Australia and New Zealand: a modified Delphi technique. <i>Physiotherapy Theory and Practice</i> June 32(6):468-482.
Journal article	Mudge AM, McRae P , McHugh K, Griffin L, Hitchen A, Walker J, Cruickshank M , Morris NR, Kuys S. Poor mobility in hospitalised adults of all ages <i>J Hosp Med</i> . 2016 Apr;11(4):289-91.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Cottrell MA, O'Leary SP, Raymer M , Hill AJ, Russell TG. Telerehabilitation as an additional service delivery option within an Australian orthopaedic physiotherapy screening service: a needs assessment. <i>International Federation of Orthopaedic Manipulative Physical Therapists (IFOMPT)</i> . Glasgow, Scotland: July 2016.
Poster	Cottrell MA, Galea OA, O'Leary SP , Hill AJ, Russell TG. Telerehabilitation is effective and comparable to standard practice in the management of musculoskeletal conditions: a systematic review & meta-analysis. <i>IFOMPT</i> . Glasgow, Scotland: July 2016
Poster	Adsett J, Mudge A, Paratz J , Morris N, Kuys S. Aquatic exercise is effective at maintaining exercise performance in trained heart failure patients : A randomised crossover trial. <i>European Society of Cardiology HF Congress</i> , May 2016
Invited	Adsett J . Aquatic exercise training and stable heart failure. <i>Heart Failure exercise training national workshop</i> . June 2016
Invited	Paratz J Facilitating clinicians to implement evidence into practice <i>RBWH Healthcare Symposium</i> September 2016
Oral	Hildegard Reul-Hirche , Juanine Passfield, Sonia Sam, Jennifer Paratz Clinicians' perceptions of risk factors and use of screening tools to identify and monitor for secondary upper limb lymphedema, <i>Australasian Lymphology Association Conference</i> , May 2016
Oral	Swete Kelly P, Judd P, Cruickshank M . A spinal pathway of care. Developing and implementing an equitable and evidenced pathway for all metropolitan and rural patients referred to a tertiary hospital. <i>International Federation of Orthopaedic Manipulative Physical Therapists (IFOMPT)</i> . Glasgow, Scotland: July 2016.
Oral	Swete Kelly P, Busuttin L, Hadley N . The pharmacist role within the an advanced musculoskeletal physiotherapy clinic and multidisciplinary service. <i>International Federation of Orthopaedic Manipulative Physical Therapists (IFOMPT)</i> . Glasgow, Scotland: July 2016.
Oral	Paratz J , Kayambu G, Boots R Early exercise and the effect on the microcirculation in sepsis. <i>ESICM</i> , Milan, October, 2016
Oral	Paratz J, Boots R , Follow up clinic for sepsis survivors, preliminary results & feasibility <i>ESICM</i> , Milan, October, 2016
Invited	Plaza A . Post-burn Adult Exercise Therapy. Integration into Rehabilitation and Impact on Outcomes. <i>International Society for Burn Injuries</i> . Miami, USA: August 2016
Oral	Caruana L, Corley A, Fraser J, Linnane M, Spooner A, Thomas P , Tronstad O, Walsh J. Manual and ventilator hyperinflation returns lung volume after suctioning: a randomised crossover study using electrical impedance tomography. <i>ANZICS/ACCCN Intensive Care Annual Scientific Meeting</i> , Perth, 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Coyer F, Clark M, Slattery P, Thomas P , McNamara G, Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey J. Exploring pressure and body positioning: a pilot evaluation among critically ill patients. 5 th World Congress of the World Union of Wound Healing Societies, Florence, 2016.
Oral	Raymer M, Comans T, Moretto N, O'Leary S, Chang AT , Standfield L; Implementing simulation modelling to improve service planning in specialist outpatient services, Australasian Implementation Conference Melbourne, Oct, 2016
Oral	Adsett J. Queensland Cardiovascular Health and Rehabilitation Association Conference 2016: HF and exercise training: What's new?
Oral	Adsett J. National Heart Foundation Qld Cardiovascular Research Showcase 2016 : Aquatic exercise is effective at maintaining exercise performance in patients with stable heart failure.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Physiotherapy	22	2	14	2



Department of Rehabilitation Engineering

Rehabilitation has continued to work across a broad range of research areas. While focusing primarily on improving clinical service delivery in our own area, the technology focus of our team has led to some broader collaboration, particularly in areas of pressure management of skin integrity with 2 conference papers resulting.

Rehabilitation Engineering continues strong links with the Queensland University of Technology (QUT) for Research and Engineering Education. 2016 marked the start of a new research association direction with work beginning on commissioning a new purposed design cyclic testing rig to determine the best construction methods for custom pressure management cushions. It is hoped that this rig will inform clinical decisions about cushion use. The Adjunct Associate Professor role for the Departmental Director in QUT continues to provide important links for research and education.

2016 was year with several important opportunities to showcase the research work of the Rehabilitation Engineering Centre. Two national conferences were held in South East Queensland, the 1st Australian Assistive Technology Conference (AATC) at the Gold Coast in July and the Australian Biomedical Engineering Conference (ABEC) in Brisbane in October. The Rehabilitation Engineering team presented papers covering our research in Tele-rehabilitation, pain and pressure relieving cushions and engineering education.

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Peter Slattery	Adjunct Associate Professor	Science and Engineering Faculty	QUT (2012 – current)

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Shailendra Maharaj (LCCH)	Peter Slattery (Rehabilitation Engineering)	Tele-Rehabilitation Engineering

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Fountain S, Maharaj S, Slattery P . Telerehabilitation: Measuring from a Distance. Australian Assistive Technology Conference 2016, Gold Coast July 2016.
Invited	Slattery P . Pressure Injury Mapping. Department of Education – Therapy, Nursing and Teaching Conference, September 2016
Oral	Coyer F (presenter) , Clark M, Slattery P , Thomas P , Mcnamara G , Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring Pressure and Body Positioning: A Pilot Evaluation Among Critically Ill Patients. World Union of Wound Healing Societies Conference, Florence Italy, 25th – 29th September 2016.
Oral	Slattery P , Epari D. The Engineering Clinician. Australian Biomedical Engineering Conference 2016, Brisbane October 2016
Oral	Slattery P , Fountain S, Maharaj S. Telerehabilitation: Moving to Manufacture from a Distance. Australian Biomedical Engineering Conference 2016, Brisbane October 2016
Oral	Mason O , Slattery P . Cushion Design to Aid Recovery from Gynaecological, Rectal and Anal Cancer Surgeries. Australian Biomedical Engineering Conference 2016, Brisbane October 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Physiotherapy	0	0	6	0

Department of Social Work and Psychology



Angela O'Maila
Director
Social Work and Psychology

The Social Work and Psychology Department's research vision is to be leaders in our field of health expertise. This is demonstrated by our commitment in promoting and supporting staff's engagement in all research activities and the development of new knowledge and skills relevant to social work and psychology practice. The Department aims to provide consumers and their carers at the RBWH with high standard of evidence based care. This year has seen a substantial growth in research activity which has benefitted our patients and grown research capacity in our staff. Research undertaken by social work has directly informed clinical practice and service delivery across a number of Service lines. In particular, the Long Stay Patient (LSP) project has supported staff to address the complex needs of long stay patients, thus reducing their length of stay. The evaluation of the Sexual Assault Response Team (SART) service ensures an evidence based counselling service is provided to clients. Engagement with our Cancer Care Services consumers through a focus group of Head and Neck survivors has contributed valuable information which enables social work staff to tailor our services to meet patients' psychosocial needs at key points in the cancer care journey. Psychology has been undertaking research in the areas of epilepsy and DSM-5.

These research projects have seen an increasing number of staff involved in research activity and total dedicated research in 2016 - 2017. Throughout the process, staff accessed training, guidance and mentoring from departmental staff with research skills, as well receiving research assistance from our university partners. These activities have increased clinician confidence and capability to engage in research. Additionally, in 2016 there was an increase in peer reviewed presentations across each team and many RBWH and Metro North staff participated in a workshop on "Writing for Publication" delivered by our social work clinical educator.

Several grants were received in 2016. A key achievement was the awarding of a SEED Innovation Grant of \$152,000 for the LSP project which provided funding for an advanced social work clinician and assistant to develop a new model of care to reduce length of stay of patients with psychosocial barriers to discharge. Of particular note is the collaborative work with AusHSI in the study to evaluate the cost effectiveness of the social worker led model of care in reducing length of stay for patients at RBWH.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Jemma Venables	PhD, UQ (2012-16) (completed)	Collaborative practice in statutory child protection practice: Parental agreements and procedural justice	Karen Healy, Gai Harrison
Sue Scull	PhD, UQ (2010-16) (completed)	Overseas-qualified professionals: The search for professional re-entry and its perceived impact on settlement	Gai Harrison , Rose Melville
Danielle Davidson	PhD, UQ (2008-16) (completed)	Youth counsellors' experiences of telephone counselling: A qualitative exploration	Gai Harrison , Philip Gillingham

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Angela O'Malia	Adjunct Senior Lecturer	School of Nursing, Midwifery & Social Work	UQ (2016-2018)
Gai Harrison	Honorary Senior Lecturer	School of Nursing, Midwifery & Social Work	UQ (2016-2018)
Mala McHale	Honorary Fellow	Psychology	UQ (2013-2016)
Elisabeth Hamernik	Honorary Fellow	Psychology	UQ (2008-2016)

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
Angela O'Malia	Adrian Barnett (AusHSI), Sonya Osborne (AusHSI), Hannah Carter (AusHSI), Gai Harrison (social work)	The long stay patient seed project: Evaluation of the senior social worker led model of care in reducing length of stay for patients at RBWH
Vanessa Walker	Peerke Murphy (social work), Erin Vaughan (social work), Gai Harrison (social work)	Evaluation of the Sexual Assault Response Team (SART) Service
Suzette Fox	Greg Lewis (social work)	Living With and Beyond Treatment for Head and Neck Cancer
Elisabeth Hamernik	Andrew Craker, Mala McHale, Maree Grier, Amanda Fairclough, Amanda Francis, Christina beckham, Desdemona Chung, Riley O'Donohue, Claire Jensen, Susan Elis, Scott Ruddell, Anna Salzgeber	Clinical utility of the DSM-5 cross-cutting measure in a medical setting
Martha Druery	Peter Newcombe (UQ), Cate Cameron (Griffith University), Jeffrey Lipman (UQ)	Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study.

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Alex Markwell (DEM)	Angela O'Malia , Tegwen Howell, Carol Windsor, Anthony Bell, Kevin Chu	Describing the experiences of SW in a Tertiary ED
University of Qld Centre for Clinical Research Blum, S., Scott, J., Spooner, D., Robison, G., Gillis, D., McKeon, G., Ryan, A., & Connell, M.	Kate Thompson	Anti-NMDA-receptor encephalitis: An Australian case series examining patterns and predictors of cognitive outcomes

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Angela O'Malia, Sarah Napier	Social Work	Long Stay Project	Innovation SEED funding	\$152,000	\$152,000 (2016)
Martha Druery	Social Work	Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study.	RBWH Foundation – Red Blanket Miracle	\$15,000	\$15,000 (2016)
Martha Druery	Social Work	Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study.	Professor Stuart Pegg Adult Burns Centre	\$20,000	\$20,000 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Heron-Delaney M., De Dassel, T. Bogossian, F. & Pritchard, M. Early Maternal reflective functioning and infant emotional regulation in a preterm infant sample at 6 months corrected age. <i>Journal of Pediatric Psychology</i> , 2016; 24, 1-9.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Napier, S., O'Malia, A. A social worker led model of care to minimise length of stay for long stay patients with complex psychosocial needs. 25th Annual RBWH Healthcare Symposium, September 2016
Oral	Fox, S. Living With and Beyond Treatment for Head and Neck Cancer. Oncology Social Work Australia (OSWA) Conference Melbourne, October 2016.
Oral	Vanessa Walker. Evaluation of SART counselling model against best practice standards for providing evidence based counselling services. AASW Queensland Branches State Conference, Brisbane, 25-26 Nov 2016
Oral	Sarah Napier and Angela O'Malia. Long stay patients with complex psychosocial needs: An innovative social worker led model of care. AASW Queensland Branches State Conference, Brisbane, 25-26 Nov 2016
Oral	Martha Druery. Small Burns, Big Issues: preliminary results from a Quality of Life outcomes study post-burns. AASW Queensland Branches State Conference, Brisbane, 25-26 Nov 2016
Oral	Martha Druery. Quality self-care in social work practice: The art and the science of building your own trauma resilience. AASW Queensland Branches State Conference, Brisbane, 25-26 Nov 2016
Oral	Martha Druery. From Fate to Good Fortune; One Social Worker's journey through redundancy, research and private practice. AASW Queensland Branches State Conference, Brisbane, 25-26 Nov 2016
Oral	Amanda Fairclough: Psychosocial aspects associated with breast reconstruction. Clinical Oncology Society of Australia. Annual Scientific Meeting, November 2016
Oral	Kate Thompson & Angela Spencer: Psychosocial support before and after epilepsy surgery: Queensland State Epilepsy Symposium. November 2016
Oral	Kate Thompson: Case Study: International League against Epilepsy: Neuropsychology in Epilepsy. June 2016
Oral	De Dassel, T., Wittman L., Hoellman H., & Gorzka, R. Posttraumatic nightmares in a military sample: gender differences and associations with psychopathology. Australian Conference on Traumatic Stress, September 2016.
Oral	Andrew Craker : The Three Faces of Resilience. A health hospital is a happier, safer and more productive place for care. Change Champions Seminar. Melbourne, October 2016
Oral	Jessica Maskell, J., Alexandra De Young, Martha Druery , Dale Edgar, Yvonne Singer. Current Psychosocial Care of Burn Patients: Screening and Support Provision across ANZBA burn centres. Australia and New Zealand Burn Association Annual Scientific Meeting (Auckland) 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Social Work and Psychology	1	0	13	0



Department of Speech Pathology and Audiology

The Speech Pathology and Audiology Department provides tertiary and quaternary level clinical services to adult inpatients and outpatients with swallowing and/or communication disorders of varying complexity and aetiology as well as providing audiology services to patients with otologic conditions. Services are provided at the RBWH Acute Hospital, the Geriatric Evaluation and Management Unit, and the Geriatric Assessment and Rehabilitation Unit, Rosemount.

The Department participates in a range of specialist multidisciplinary teams and has a strong commitment to clinical research and student education. In particular, the Speech Pathology and Audiology Department has established key research partnerships with the UQ Centre for Clinical Research & School of Health and Rehabilitation Sciences resulting in ongoing collaborative research projects and publications.

Key research areas include:

- Head and Neck Cancer – intervention, models of care and outcomes of patients following surgery and/or chemotherapy/radiotherapy.
- Stroke- assessment of aphasia, intensity of aphasia rehabilitation.
- Dysphagia – dysphagia screening, instrumental assessment, swallowing rehabilitation .
- Telehealth and telerehabilitation.
- Tracheostomy – simulated training .
- Cochlear implant.

Highlights of 2016:

In 2016 the research achievements in Speech Pathology and Audiology continued to flourish. This was achieved through extensive existing collaborations and the committed clinicians engaged in research across all of our teams. The overall research outputs for Speech Pathology and Audiology in 2016 were 9 peer reviewed publications in high impact journals, 11 oral conference presentations and 9 poster presentations.

Highlights included numerous awards with a number of our staff recognised at RBWH Healthcare Symposium including Dr Clare Burns winning the overall symposium research medal for her pioneering research investigating innovative telehealth models of care in Head and Neck Cancer. Furthermore, our department celebrated PhD completions for Dr Clare Burns and Dr Jade Dignam. Both Clare and Jade's PhD projects have made substantial impact on Speech Pathology clinical practice and we are very proud of their achievements.

We are also proud of the growth in the research capacity across all our teams and the number of novice researchers publishing in peer reviewed journals and presenting their research findings at international conferences for the first time in 2016. We are committed to the further development of our "clinician researchers of the future" in Speech Pathology and Audiology.

Benefits for clinical practice:

We have a clear vision to undertake research which translates into real benefits for our consumers and we are committed to rigorous evaluation of new innovative models of care (e.g., telehealth models of care in Head and neck Cancer, aphasia rehabilitation models). We look forward to building on the achievements of 2016 in the coming years.



Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Clare Burns	PhD, UQ (2013-2016) Completed December 2016	Telehealth and Speech Pathology Management of Head and Neck Cancer	Liz Ward, Annie Hill
Laura Moroney	MPhil, UQ (2015-2018)	Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy	Liz Ward, Jane Crombie
Alexia Rohde	PhD, UQ (2012-2017)	Evidence-based identification of aphasia using a rational clinical examination approach	Linda Worrall, Robyn O'Halloran, Erin Godecke, Anna Farrell
Leisa Turkington	PhD, UQ (2013-2019)	Neurogenic dysphagia and sensory enhancement strategies	Liz Ward, Anna Farrell
Shana Taubert	PhD (2016-2020)	Videofluoroscopic Swallow Studies: Education and training approaches	Liz Ward, Clare Burns
Georgia Thomas	PhD (2014-2017)	Language Outcomes in patients with Brain Tumours	Dave Copland, Katie McMahon
Kylie Wall	PhD (2014-2017)	Cognitive changes in people after stroke	Dave Copland, Katie McMahon
Jade Dignam	PhD (2012-2016) Completed May 2016	Factors influencing treatment -induced language recovery in chronic, post-stroke aphasia	Dave Copland, Amy Rodriguez

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Alice Pender	Honorary Associate Lecturer	Audiology, School of Health and Rehabilitation Sciences	University of Queensland (2016-2019)

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
Clare Burns	Liz Ward, Annie Hill, Lynell Bassett, Liz Kenny , Karen Malcolm, Franco del Rosso, Phil Greenup	Randomised Controlled Trial to evaluate a Speech Pathology telehealth service to support Head and Neck Cancer patients
Clare Burns	Liz Ward, Anne Hill, Ben Keir	Conducting instrumental assessments of adult dysphagia via telehealth
Clare Burns	Liz Ward, Annie Hill, Robyn Saxon, Brooke Cowie, Amy Gray	Development, implementation and evaluation of a Queensland Health telepractice model for the clinical assessment of adult dysphagia
Clare Burns & Shana Taubert	Liz Ward, Kelly McCarthy	Evaluating an e-Learning program for training in Adult MBS assessment
Annette Collins & Clare Burns	Liz Ward, Anne Hill	Evaluation of a telepractice model for providing in home swallowing and nutrition management for patients following head and neck cancer treatment
Alexia Rohde	Linda Worrall, Erin Godecke, Rd Robyn O'Halloran, Anna Farrell, Penni Burfein, Andrew Wong, Genevieve Skinner	Evidence-based identification of aphasia using a rational clinical examination approach
Dr Anna Farrell	Anna Rumbach, Stacey Verner-Wren, Rebecca Nund, Nerina Scarinci, Nicole Hutchinson, Robert Henderson, Pamela McCombe	Patient and family carer experiences of dysphagia in Motor Neurone Disease: Determining speech pathology service needs for those living in rural and remote locations
Leisa Turkington	Liz Ward, Anna Farrell	Neurogenic dysphagia and sensory enhancement strategies
Laura Moroney	Jane Crombie, Jennifer Helios, Clare Burns, Ann-Louise Spurgin, Liz Kenny, Brett Hughes, Clare Blake	Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy
Belinda Lehn, Sarah Wilson	Clare Burns, Ann-Louise Spurgin, Dr Robert Hodge, Martin Batstone	Evaluation of speech and swallowing outcomes following total laryngectomy and pharyngolaryngectomy
Jane Crombie, Ann-Louise Spurgin	Clare Burns, Liz Ward, Stephanie Ng, Teresa Brown, Liz Kenny, Brett Hughes, Lee Tripcony, Jaqueline Wells	RBWH Swallowing and Nutrition Guidelines for Head and Neck Cancer patients
Rebecca Cremer	Anna Rumbach	Dysphagia outcomes following caustic ingestion
Sarah Heaton, Anna Farrell	Anna Rumbach and Katrina Webster	Dysphagia outcomes in Subarachnoid Haemorrhage
Lynell Bassett, Sonia Baker	Rob Boots, Nanette Paxman, Karyn Heineger	Evaluation of the Tracheostomy Management Team (TMT)
Lynell Bassett	Jennifer Helios	Evaluation of the First Contact Dysphagia Clinic
Carla Rose	Lynell Bassett, Sharon Kelly	Evaluation of the First Contact Audiology Clinics

Collaborative Research Activity involving RBWH Research Group / Department

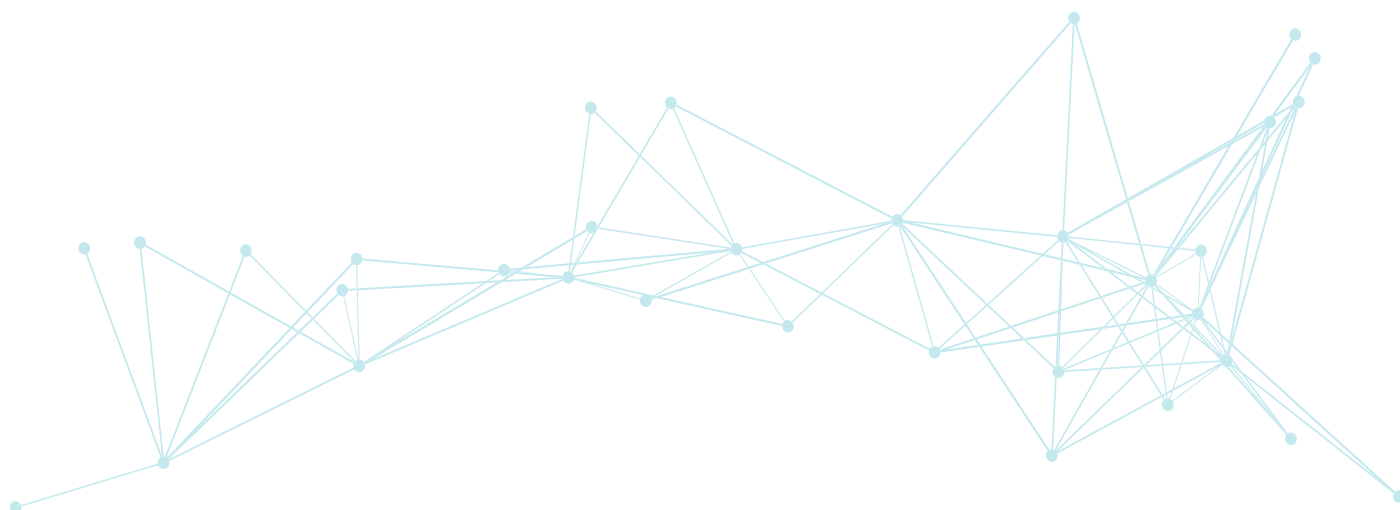
Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Georgia Thomas (UQ), David Copland (UQ)	Nadia Borgna, Sarah Heaton, Anna Farrell, Lindy Jefree	The use of functional magnetic resonance imaging and MRI diffusion tractography for pre-surgical mapping and investigation of neuroplasticity in adults with a brain tumour
Linda Worrall (UQ), David Copland (UQ), Melissa Lawrie (Gold Coast HHS), Liz Ward (UQ), Moya Pattie (Wesley)	Penni Burfein, Anna Farrell	Can a new, intensive model of aphasia rehabilitation achieve better outcomes than usual care?

Research Awards and Achievements

Recipient	Award	Event
Clare Burns	The Symposium Research Medal	RBWH Research Symposium, September 16 th 2016
Clare Burns	Overall Superior Quality Achiever Award	RBWH QuARRIE awards, 21 st July 2016
Clare Burns	Finalist Metro North Research Award: Innovation and Creativity	Metro North Hospital and Health Service Research Awards, July 2016
Leisa Turkington	Joint winner '3 minutes of Fame'	RBWH Research Symposium, September 16 th 2016
Sonia Baker	Health Practitioner Research Award	RBWH Research Symposium, September 16 th 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Alexia Rohde, Anna Farrell, Linda Worrall, Erin Godecke, Robyn O'Halloran	Speech Pathology	Evidence-based identification of aphasia using a rational clinical examination approach	RBWH Foundation, Research Project Grant	\$40,000	\$40,000 (2016)
Shana Taubert	Speech Pathology	Evaluation of an e-learning package for Modified Barium Swallow	CAHRLI Pre-PhD Scholarship	\$10,816	\$10,816 (2016)
Leisa Turkington	Speech Pathology	Neurogenic dysphagia and sensory enhancement strategies	RBWH PhD Scholarship	\$25,000	\$25,000 (2016)
Alexia Rohde	Speech Pathology	Assessment of acute Aphasia	RBWH PhD Scholarship	\$30,000	\$30,000 (2016)
Annette Collins, Clare Burns, Liz Ward, Anne Hill,	Speech Pathology	Evaluation of a telepractice model for providing in home swallowing and nutrition management for patients following head and neck cancer treatment	HP Research Grant	\$11,405	\$22,811 (2016-2017)
Anna Farrell, Anna Rumbach, Stacey Verner-Wren, Robert Henderson, Nicole Hutchinson	Speech Pathology and Neurology	Patient and family carer experiences of dysphagia in Motor Neurone Disease	HP Research Grant	\$7,500	\$15,070 (2015-2017)



2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Barnett, A.G., Campbell, M.L., & Burns, C.L. (2016). Research funding for telemedicine: An Australian perspective. <i>Journal of Telemedicine and Telecare</i> . 2016; 22(3), 189-191.
Journal article	Burns C , Ward E, Hill A, Phillips N. & Porter L. Conducting real-time videofluoroscopic swallow study via telepractice: A feasibility study. <i>Dysphagia</i> , 2016; 31(3), 473-483
Journal article	Burns, C.L., Taubert, S. , McCarthy, K., Ward, E.C., & Graham, N. MBS eLearning program: Supporting a standardised approach to Modified Barium Swallow Training. 2016, <i>Dysphagia</i> ; 31 (9), 812-813.
Journal article	Dignam J , Copland D., Rodriguez A, O'Brien C, & Burfein P . The relationship between novel word learning and anomia treatment success in adults with chronic aphasia. <i>Neuropsychologia</i> 2016; DOI: 10.1016/j.neuropsychologia.2015.12.026
Journal article	Dignam, J. , Copland, D., Rodriguez, A., Burfein, P., O'Brien, C., & Khan, A. Influence of cognitive ability on therapy outcomes for anomia in adults with chronic post-stroke aphasia. 2016. <i>Journal of Speech, Language, and Hearing Research</i>
Journal article	Dignam, J. , Rodriguez, A., & Copland, D. Evidence for Intensive Aphasia Therapy: Considerations of theories from neuroscience and cognitive psychology. <i>Physical Medicine and Rehabilitation</i> . 2016, 8(3), 254-267.
Journal article	Rumbach, A., & Cremer, R. (2016). The Challenges of Dysphagia Management and Rehabilitation in two complex cases post chemical ingestion injury. <i>American Journal of Speech Language Pathology</i> . 2016;2 5(4), 470-480.
Journal article	Turkington L , Nund R, Ward E, Farrell A . Exploring current sensory enhancement practices within videofluoroscopic swallow study (VFSS) clinics. <i>Dysphagia</i> . 2016 doi: 10.1007/s00455-016-9747-1
Journal article	Turkington L , Ward E, Farrell A . Carbonation as a sensory enhancement strategy: A narrative synthesis of existing evidence. <i>Disability and Rehabilitation</i> . 2016 doi: 10.1080/09638288.2016.1213894.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral /Poster / Invited)	Publication information (RBWH staff in bold)
Poster	Baker S, Heaton S, Bassett L . Consumer evaluation of Tracheostomy Management Team. RBWH Healthcare Symposium, September 2016
Oral	Baker, S. Tracheostomy management team. Speech Pathology Australia conference, May 2016
Poster	Baker, S. Tracheostomy management: consumer perspectives. Speech Pathology Australia conference, May 2016.
Oral	Banks, M & Farrell, A. Growing Research Capacity. RBWH Cancer Care Research Retreat. Brisbane, 10 th November 2016
Oral	Burfein, P. A model for intensive speech and language rehabilitation. Collaborative for Allied Health Research, Learning and Innovation (CAHRLI) Forum. Brisbane, 23 May 2016
Poster	Burns C , Taubert S, McCarthy K, Ward E & Graham N. MBS eLearning program: Supporting a standardised approach to Modified Barium Swallow Training. <i>Dysphagia Research Society (USA), Tuscon, USA. 25-27 February 2016</i>
Poster	Burns C , Taubert S, Ward E. MBS e-learning project. RBWH Healthcare Symposium, September 2016
Oral	Burns, C. Delivering speech pathology services via telepractice: An innovative model of care supporting patient rehabilitation post head and neck cancer treatment. International Cancer Congress. Paris, 31 Oct-3 November 2016
Oral	Burns, C. Evaluation of a speech pathology telehealth service supporting patients with head and neck cancer. CAHRLI Forum. Brisbane, 23 May 2016
Oral	Burns, C. Telehealth in Head and Neck Cancer Management. 3 minutes of Fame. RBWH Healthcare Symposium, September 2016
Oral	Burns, C. Telehealth models of care. Telehealth Centre for Research Excellence 18 th August 2016
Oral	Burns, C. Translating research into practice in telehealth models of care. RBWH Healthcare Symposium, September 2016
Oral	Heaton, S. Dysphagia management. Nestle Nutrition Institute of Dysphagia Conference. Melbourne, Australia, March 2016
Poster	Moroney L, Helios J , Ward E, Crombie J , Pelecanos A., Burns C , Spurgin A-L , Blake C , Kenny L , Hughes B . Patterns of dysphagia and acute toxicities in patients with oropharyngeal carcinoma undergoing helical IMRT +/- concurrent chemotherapy. Tomotherapy and dysphagia outcomes. Australian and New Zealand Head and Neck Cancer Society conference, Auckland, New Zealand, 25-27 October 2016.

Type (Oral /Poster / Invited)	Publication information (RBWH staff in bold)
Poster	Moroney, L, Helios J, Ward E, Crombie J, Pelecanos A, Burns C, Spurgin A-L, Blake C, Kenny L, Hughes B. Tomotherapy and dysphagia outcomes. RBWH Cancer Care Research Retreat. Brisbane, 10th November 2016
Poster	Rohde A, Worrall L, O'Halloran R, Godecke E, & Farrell A. Brisbane Evidence-Based Language Test for Acute Stroke, Brisbane EBLT: a speech pathology assessment for the identification of acute post-stroke language disorders. International Aphasia rehabilitation congress. London 16th December 2016
Poster	Rose C, Pender A, Chong C, McPherson I. Audiology led clinics for asymmetrical hearing loss. RBWH Healthcare Symposium, September 2016
Poster	Turkington L, Ward E, Farrell A. Sensory Enhancement Strategies in VFSS. RBWH Healthcare Symposium, September 2016
Oral	Turkington L, Ward, E., Farrell A. Carbonation and Neurogenic Dysphagia. University of Queensland Post-graduate Research Conference, 23rd November 2016
Oral	Turkington L. Sensory enhancement strategies in neurogenic dysphagia. 3 minutes of Fame. RBWH Healthcare Symposium, September 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Speech Pathology and Audiology	9	0	11	9



Cancer Care Services



Assoc. Prof. Glen Kennedy
Executive Director
Cancer Care Services

Cancer Care Services (CCS) at RBWH provides expert, highly skilled, evidence based care to patients affected by cancer and non malignant haematological conditions, including haemophilia. As a service committed to achieving excellence, our multidisciplinary research team is an essential part of ensuring the provision of cutting edge treatment to our patients. The Cancer Care research team includes the Cancer Nursing Professorial Precinct, Medical Oncology, Radiation Oncology, and Haematology (including the Haemophilia Centre and the BMT Unit). Research is considered core business within Cancer Care and a vehicle to the facilitation of progressive treatment for our patients.

2016 presented another year of fantastic achievement in research for Cancer Care. The annual CCS Research Retreat brought together investigators and clinicians from CCS along with senior hospital and district executives to facilitate forward planning to ensure that research remains at the forefront of our service both now and into the future.

The Cancer Nursing Professorial Precinct is a strategic collaboration between nurses in Cancer Care Services, Royal Brisbane and Women's Hospital (RBWH) and academics in the School of Nursing, Queensland University of Technology (QUT). The aim of the Precinct is to build capacity for embedding research and innovation into day-to-day clinical practice, and develop a world-class academic comprehensive cancer centre to improve patient outcomes. Our 2016 highlights include Professor Raymond Chan being awarded the prestigious Young Tall Poppy Award, and several cancer nurses being part of the RBWH Nursing Research Team that received a Highly Commended award for Improving Patient Outcomes in Critical Care in the 2016 Inaugural Metro North Hospital and Health Service Research Excellence Awards.



Gillian Nasato
Nursing Director
Cancer Care Services

The RBWH Haematology and Bone Marrow Transplant Clinical Research Unit has continued to develop and widen the opportunities for patients with haematological malignancy to participate in a comprehensive and collaborative research programs. In 2016, research staff from across the department of Haematology and Bone Marrow Transplant excelled with poster and podium presentations at well attended National and International meetings. The unit continues to publish widely in peer reviewed journals and has strong collaborations with QIMR Berghofer Medical Research Institute in supporting world class translational research programs investigating novel targeted leukaemia treatment and cellular therapies.

The Queensland Haemophilia Centre is a state-wide service which is based at the Royal Brisbane and Women's Hospital (RBWH). The centre provides comprehensive care for those with haemophilia and other inherited bleeding disorders and continues to support the important outcome data via the Australian Bleeding Disorders Registry with ongoing participation in key clinical trials utilising novel approaches to the prevention of bleeding complications.

It has been another productive year for cancer research in Radiation Oncology at RBWH. The aim and focus of the Radiation Oncology Research group is to promote, support and drive innovation, promote quality initiatives and ensure quality improvement projects to deliver evidence-based practice, ensuring safe treatment delivery. With the recent implementation of Deep Inspiration Breath Hold (DIBH), Stereotactic Body Radiation Therapy (SBRT), Stereotactic Ablative Body Radiotherapy (SABR), and soon to be released Catalyst Body Surface Scanning system, clinical benefits for patient outcomes are multi-fold; including more targeted treatment delivery, faster treatment times and effective sparing of critical structures.



Prof Geoff Hill
Research Director
Cancer Care Services

The CCS Medical Oncology Department has an ongoing, active clinical research program. A number of research grants were received in 2016 including those from the RBWH foundation and the newly established Herston Imaging Research Facility (HIRF). 2016 highlights include Dr Matthew Burge being awarded the 2016 AGITG Innovation fund prize and Natasha Roberts who was awarded the Best Nursing/Allied Health Poster presentation at the 2016 ANZUP Annual Scientific Meeting. Collaborative research is ongoing with other RBWH departments and external health partners as we continue to grow and develop an extensive research program across the district.

2016 represented a year of major changes within cancer research; the rapid evolution of immunotherapy including stunning results of chimeric antigen receptor (CAR) T cells in refractory leukaemia, the appreciation of the critical role of commensal microbiota in these and indeed most clinical therapies together with the widespread introduction of small molecules targeting the apoptotic pathway, developed here in Australia. Never before have new research-instructed paradigms transited so rapidly into clinical practice, bring new challenges to the cancer workforce. Importantly, these changes have been bought about by rapid changes in technology that bestow us with an increasing requirement for understanding related scientific disciplines, immunology and genomics in particular. It is thus fitting that Metro North and RBWH enter a new period with formalisation of research in our service. We welcome Scott Bell as the inaugural Director of Research in Metro North and the newly developed research strategy that seeks to embed research training and culture within RBWH.

Cancer Care continues to perform well in the research space, as Dr Kennedy has outlined in his review. I would highlight some notable achievements in 2016. Andrea Hendon won the coveted Baillie Medal for best work by a new investigator at the Haematology Society of Australia and NZ annual meeting in Melbourne. The study was part of Andrea's PhD work and she continues as a Haematologist in the Department. Ray Chan, Siok Tey and Steven Lane were awarded multiple NHMRC and CCQ grants. Kate Markey, a Haematology registrar based at RBWH received one of only five \$0.5M State-Wide QLD Health Junior Research Fellowships. Most impressively, Steven Lane received the inaugural CSL Fellowship, worth \$1.25M over 5 years. This is a major national achievement for Steve and the Department of Haematology, clearly placing him at the very top of his peer group in leukaemia research. We also congratulate Brett Hughes from Medical Oncology who co-authored a pivotal phase 2 study on a new ALK inhibitor in the very high impact Journal of Clinical Oncology. The Division was also successful in the Cancer Theme bid for the Brisbane Diamantina Health Partners (BDHP), led by myself and Euan Walpole from the PA Hospital together with Metro North theme leads in Blood Cancers (Steven Lane), Upper GI cancers (Matt Burge) and Lung Cancer (Brett Hughes). At the time of writing, BDHP is (confidently) awaiting the outcome of its NHMRC application for recognition as an Academic Health Research and Translation Centre, a vehicle likely to be integral to the disposal of funding from the Medical Research Future Fund. This new funding landscape will bring investigator driven research sharply into focus over the next 5 years and while our achievements this year place us in good stead, it will be important we continue to shape and mentor our young researchers to meet these challenges in the future.

Haematology, Bone Marrow Transplant and Haemophilia

The RBWH Haematology and Bone Marrow Transplant Clinical Research Unit has continued to develop and widen the opportunities for patients with haematological malignancy from Metro North, central zone and across Queensland to participate in a structured comprehensive research program enhanced by collaborations with QIMR Berghofer Medical Research Institute, The Australian Leukaemia & Lymphoma Group (ALLG), other RBWH clinical and allied health units including the Department of Intensive Care, Nutrition & Dietetics, Pharmacy and The Herston Imaging Research Facility (HIRF).

The unit maintains a comprehensive suite of clinical studies from phase I to IV trials investigating the optimal management of leukaemia, lymphoma, myeloma and myeloproliferative neoplasms and improving the outcomes of patients requiring allogeneic stem cell transplantation via the utilisation of novel approaches to the prevention and treatment of Graft versus Host Disease. Collaborations with QIMR Berghofer Medical Research Institute continue to support world class translational research programs investigating novel targeted leukaemia treatment and cellular therapies.

This year research staff from across the department of Haematology and Bone Marrow Transplant excelled with poster and podium presentations at well attended National and International meetings. The unit continues to publish widely in peer reviewed journals.

The Queensland Haemophilia Centre is a state-wide service based at the Royal Brisbane and Women's Hospital (RBWH). The centre provides comprehensive care for those with haemophilia and other inherited bleeding disorders and continues to support the important outcome data via the Australian Bleeding Disorders Registry with ongoing participation in key clinical trials utilising novel approaches to the prevention of bleeding complications.

Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nienke Zomerdijk	PhD, UQ (2015-2018)	A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors.	Geoff Hill, Jane Turner
Therese Vu	PhD, UQ (2013-)	Maintenance of blood stem cells and the development of haematological malignancies	Steven Lane
Rebecca Austin	PhD, UQ (2014-)	What factors drive immune response in acute myeloid leukaemia	Steven Lane
Simone Minnie	PhD, UQ (2015-2017)	Optimizing the cellular and molecular pathways for graft vs myeloma effects after bone marrow transplantation	Geoff Hill
Dr Andrea Henden, Haematologist	PhD, UQ (2014-2017)	Anti-leukemia effects of the type I and III Interferons	Geoff Hill
Melody Cheung	PhD, Griffith (2012-2016)	Optimization of CD8+ dendritic cell cross presentation for enhanced graft versus leukemia effects following haematopoietic stem cell transplantation	Geoff Hill
Paulo Martins	PhD, UQ (2013-2016)	Dissecting the immunological determinants and consequences of cytomegalovirus reactivation in allogeneic haematopoietic stem cell transplantation using a novel murine model	Geoff Hill
Katie Lineburg	PhD, UQ (2014-2016)	Identifying the cells and pathways that contribute to chronic graft-versus-host disease	Geoff Hill
Kate Markey	Candidate for Masters in Clinical Research Methods – Monash University (2016-2018)	Coursework only	N/A

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Associate Professor Steven Lane	CSL Centenary Fellowship Conjoint Fellow	Research into acute leukaemia	CSL Centenary Fellowship
Prof Geoff Hill	Senior Clinical Research Fellowship		Qld Health
Prof Geoff Hill	Honorary Practitioner Research Fellow Level 2, Laboratory Head, Principal Research Fellow		NHMRC

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
Nienke Zomerdijk Jane Turner Geoff Hill	David Gottlieb Annette Barnes Jacobus Ungerer	A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors
Simon Durrant	Jason Butler, Cameron Curley, Glen Kennedy, Siok Tey, Steven Lane, Kirk Morris, Elango Subramonia Pillai, Nicholas Weber	A Phase III, 2-arm, randomized, double-blind, placebo-controlled study of intravenous PI3K inhibitor copanlisib in combination with standard immunochemotherapy in patients with relapsed indolent non-Hodgkin's lymphoma (iNHL) - CHRONOS-4
Glen Kennedy	Simon Durrant, Jason Butler, Cameron Curley, Steven Lane, Kirk Morris, Elango Subramonia Pillai, Ashish Misra	A Phase 3, Multicenter, Open-label, Randomized Study Comparing the Efficacy and Safety of AG-221 (CC-90007) Versus Conventional Care Regimens in Older Subjects with Late Stage Acute Myeloid Leukemia Harboring an Isocitrate Dehydrogenase 2 Mutation - AG-221-AML-004
Glen Kennedy	Simon Durrant, Jason Butler, Cameron Curley, Ashish Misra, Anthony James Morton, Elango Subramonia Pillai	A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Trial to Evaluate the Protective Efficacy and Safety of a Therapeutic Vaccine, ASP0113, in Cytomegalovirus (CMV)-Seropositive Recipients Undergoing Allogeneic, Hematopoietic Cell Transplant (HCT) Protocol for Phase 3 Study of ASP0113
Jason Butler	Simon Durrant, Cameron Curley, Elango Subramonia Pillai	CINC424A2104 - A phase Ib, open-label, multi centre, two arm, dose-finding study to assess safety and efficacy of the oral combination of Ruxolitinib (INC424) and BKM120 in patients with primary myelofibrosis (PMF), post-polycythemia vera-myelofibrosis (PPV-MF), or post essential thrombocythemia-myelofibrosis (PET-MF) who have previously received or not a JAK inhibitor
Simon Durrant	Jason Butler, Elango Subramonia Pillai	A multi-center, randomized, double-blind, placebo controlled clinical trial of deferasirox (Exjade®) in patients with myelodysplastic syndromes (low/int-1 risk) and transfusional iron overload (TELESTO)
Simon Durrant	Elango Subramonia Pillai, Steven Lane, Ashish Misra, Kirk Morris, Jason Butler	Randomized, open label, multicentre phase IIIb study evaluating the efficacy and safety of ruxolitinib versus best available therapy in patients with polycythemia vera who are hydroxyurea resistant or intolerant (Response 2)
Simon Durrant	Elango Subramonia Pillai, Cameron Curley, Jason Butler	Randomized, open label, multicenter phase III study of Efficacy And Safety in Polycythemia vera subjects who are resistant to or intolerant of hydroxyurea: JAK inhibitor INC424 tablets versus best available care (The RESPONSE Trial)
Simon Durrant	Jason Butler, Elango Subramonia Pillai	An Open-Label Bosutinib Treatment Extension Study For Subjects With Chronic Myeloid Leukemia (CML) Who Have Previously Participated In Bosutinib Studies B1871006 Or B1871008
Glen Kennedy	Simon Durrant, Jason Butler, Cameron Curley, Ashish Misra, Elango Subramonia Pillai, Steven Lane, Siok Tey, Kirk Morris, Anthony James Morton	A phase III, international, multi center, randomized, controlled, open-label study to investigate the efficacy, safety and pharmacokinetics 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. (BO22334)
Simon Durrant	Jason Butler, Cameron Curley, Ashish Misra, Elango Subramonia Pillai, Steven Lane, Siok Tey, Kirk Morris, Anthony James Morton	An adaptive, comparative, randomized, parallel-group, multi center, Phase Ib study of subcutaneous (SC) rituximab versus intravenous (IV) rituximab both in combination with chemotherapy (fludarabine and cyclophosphamide), in patients with previously untreated CLL. Protocol Number: BO25341

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
Siok Tey, Geoff Hill	Glen Kennedy, Simon Durrant, Jason Butler, Cameron Curley, Ashish Misra, Elango Subramonia Pillai, Anthony James Morton	A phase I study of haploidentical haematopoietic stem cell transplantation with suicide gene-modified donor T cell addback in patients with poor risk haematological malignancies
Geoff Hill	Simon Durrant, Glen Kennedy, Jason Butler, Anthony James Morton, Siok Tey, Ashish Misra, Elango Subramonia Pillai, Cameron Curley	Observational Study of IL-17 – related Cytokines in Stem Cell Transplantation
Siok Tey, Glen Kennedy	Simon Durrant, Glen Kennedy, Jason Butler, Anthony James Morton, Elango Subramonia Pillai, Cameron Curley	Observational study of immune reconstitution following autologous stem cell transplantation (IR Auto)
Siok Tey, Geoff Hill	Glen Kennedy, Simon Durrant, Jason Butler, Cameron Curley, Ashish Misra, Elango Subramonia Pillai, Anthony James Morton	Observational study of immune reconstitution following stem cell Transplantation (IR Allo)
Geoff Hill, Glen Kennedy	Simon Durrant, Jason Butler, Anthony James Morton, Elango Subramonia Pillai, Cameron Curley, Siok Tey, Ashish Misra	A phase I / II study of pegylated-Interferon-2alpha for relapsed haematological malignancy after allogeneic haematopoietic progenitor cell transplantation (HPCT)
Glen Kennedy, Geoff Hill	Simon Durrant, Jason Butler, Anthony James Morton, Siok Tey, Ashish Misra, Elango Subramonia Pillai, Cameron Curley	A phase II study of humanized anti-IL-6 receptor antibody Tocilizumab (TCZ) to prevent development of acute graft versus host disease (GVHD) post HLA-mismatched allogeneic haematopoietic progenitor cell transplantation (HPCT)
Glen Kennedy, Geoff Hill, Prof Sanjoy Paul	Simon Durrant, Jason Butler, Anthony James Morton, Siok Tey, Elango Subramonia Pillai, Cameron Curley	A phase III randomized study of humanized anti-IL-6 receptor antibody Tocilizumab (TCZ) to prevent development of acute graft versus host disease (GVHD) post HLA-matched allogeneic haematopoietic progenitor cell transplantation (HPCT)
Siok Tey	Simon Durrant, Geoff Hill	Developing a method to generate regulatory T cells from healthy donors
Steven Lane	Geoff Hill, Glen Kennedy	Examination of genes that control the growth and survival of blood cancers P1382
Geoff Hill, Glen Kennedy	Simon Durrant, Jason Butler, Anthony James Morton, Siok Tey, Ashish Misra, Elango Subramonia Pillai, Cameron Curley	Substitution of alemtuzumab for ATGAM as part of combination therapy including etanercept, tacrolimus and mycophenolate mofetil for steroid-refractory acute graft versus host disease (SR-GVHD) post haematopoietic progenitor cell transplantation (HPCT)
Geoff Hill, Glen Kennedy	Simon Durrant, Jason Butler, Anthony James Morton, Siok Tey, Ashish Misra, Elango Subramonia Pillai, Cameron Curley	A phase I / II study of humanized anti-IL-6 receptor antibody Tocilizumab (TCZ) to prevent development of acute graft versus host disease (GVHD) post HLA-matched allogeneic haematopoietic progenitor cell transplantation (HPCT)

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Dr Noemi Horvath (Adelaide)	Simon Durrant, Jason Butler, Cameron Curley, Geoff Hill, Glen Kennedy, Steven Lane Kirk Morris, Elango Subramonia Pillai, Siok Tey, Nicholas Weber	A Phase 3, Multicenter, Randomized, Double Blind Study of Bortezomib and Dexamethasone in Combination with Either Venetoclax or Placebo in Subjects with Relapsed or Refractory Multiple Myeloma Who are Sensitive or Naïve to Proteasome Inhibitors. Protocol: M14-031.
Andrew Wei ALLG (Melbourne)	Glen Kennedy, Kirk Morris, Jason Butler, Simon Durrant Cameron Curley, Steven Lane, Elango Subramonia Pillai, Nicholas Weber	Sorafenib in combination with intensive chemotherapy for previously untreated adult FLT3-ITD positive AML: a phase 2 randomised double-blind controlled multi-centre study
Andrew Wei ALLG (Melbourne)	Steven Lane, Jason Butler, Cameron Curley, Glen Kennedy, Steven Lane, Kirk Morris, Elango Subramonia Pillai, Siok Tey, Nicholas Weber	A phase Ib/II clinical evaluation of Ponatinib in combination with 5-azacitidine in FLT3-ITD positive acute myeloid leukaemia AML M21

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Andrew Wei ALLG (Melbourne)	Glen Kennedy, Cameron Curley, Jason Butler, Elango Subramonia Pillai, Steven Lane, Kirk Morris, Nicholas Weber, Simon Durrant	Australasian Leukaemia and Lymphoma Group “National Blood Cancer Registry”
JudithTrotman Emma Verner ALLG	Jason Butler, Cameron Curley, Simon Durrant, Glen Kennedy, Steven Lane, Ashish Misra, Kirk Morris, Anthony James Morton, Elango Subramonia Pillai, Nicholas Weber	A Phase II Study of Ibrutinib, Rituximab and mini-CHOP therapy in very elderly patients with newly diagnosed DLBCL
Dr Sushrut Patil (Alfred Hospital)	Simon Durrant, Jason Butler, Cameron Curley, Glen Kennedy, Kirk Morris, Elango Subramonia Pillai, Nicholas Weber	A Phase 2/3 Multi-center Study to Evaluate the Safety and Efficacy of Blinatumomab in Subjects with Relapsed/Refractory Aggressive B-Cell Non Hodgkin Lymphoma (20150292)
Hunter New England (NSW)	Glen Kennedy, Cameron Curley, Elango Subramonia Pillai, Jason Butler, Kirk Morris	A Randomized, Open-label, Phase 3 Study of Carfilzomib Plus Dexamethasone vs Bortezomib Plus Dexamethasone in Patients with Relapsed Multiple Myeloma. Protocol Number 2011-003
A/Prof David Ritchie (Royal Melbourne)	Simon Durrant, Glen Kennedy, Jason Butler, Cameron Curley, Ashish Misra, Kirk Morris, Elango Subramonia Pillai, Geoff Hill, Nick Weber	A Phase 3, Randomized, Open Label Study Investigating the Efficacy of the BiTE Antibody Blinatumomab Versus Standard of Care Chemotherapy in Adult Subjects With Relapsed/Refractory B-precursor Acute Lymphoblastic Leukemia (ALL) (TOWER Study)
St Vincent’s Hospital (NSW)	Simon Durrant, Elango Subramonia Pillai, Jason Butler, Cameron Curley, Kirk Morris	An open label, multi-center, Phase IV roll-over protocol for participants who have completed a prior ruxolitinib (INC424) study and are judged by the investigator to benefit from continued treatment
Hunter New England (NSW)	Simon Durrant, Jason Butler, Cameron Curley, Glen Kennedy, Steven Lane, Kirk Morris, Anthony James Morton, Elango Subramonia Pillai, Nicholas Weber	A Phase Ib/II Study Evaluating The Safety And Efficacy Of Mpd13280a In Combination With Either Obinutuzumab Plus Bendamustine Or Obinutuzumab Plus Chop In Patients With Follicular Lymphoma Or Diffuse Large B-Cell Lymphoma
Melbourne Hospital	Simon Durrant, Steven Lane, Jason Butler, Kirk Morris, Elango Subramonia Pillai, Anthony James Morton, Cameron Curley, Glen Kennedy, Ashish Misra,	A Phase 3, Randomized, Double-blind Active-controlled Study Evaluating Mometinib vs. Ruxolitinib in Subjects with Primary Myelofibrosis (PMF) or Post-polycythemia Vera or Post-essential Thrombocythemia Myelofibrosis (Post-PV/ET MF)
Melbourne Hospital	Glen Kennedy, Simon Durrant, Jason Butler, Cameron Curley, Geoff Hill, Anthony James Morton, Elango Subramonia Pillai, Ashish Misra, Nicholas Weber	A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Multi-Center Study Evaluating Antiviral Effects, Pharmacokinetics, Safety, and Tolerability of GS-5806 in Hematopoietic Cell Transplant (HCT) Recipients with Respiratory Syncytial Virus (RSV) Infection of the Upper Respiratory Tract
Prince of Wales Hospital (NSW)	Kirk Morris, Cameron Curley, Siok Tey	A Phase 3, Randomized, Controlled Study Evaluating the Efficacy and Safety of Idelalisib(GS-1101) in Combination with Ofatumumab for Previously Treated Chronic Lymphocytic Leukemia
Princess Alexandra Brisbane	Simon Durrant, Jason Butler, Cameron Curley, Glen Kennedy, Steven Lane, Ashish Misra, Elango Subramonia Pillai	An Open-label, Randomised Trial of Bortezomib Consolidation (With Thalidomide and Prednisolone) Vs Thalidomide and Prednisolone Alone in Previously Untreated Subjects With Multiple Myeloma After Receiving Bortezomib, Cyclophosphamide, Dexamethasone (VCD) Induction and Autologous Stem Cell Transplant. 26866138-MMY-2073
Princess Alexandra Brisbane	Cameron Curley, Glen Kennedy Steven Lane, Jason Butler, Kirk Morris, Simon Durrant, Elango Subramonia Pillai	A Randomized Phase 2 Study of DACOGEN® (Decitabine) Plus JNJ-56022473 (Anti CD123) Versus DACOGEN (Decitabine) Alone in Patients with AML who are not Candidates for Intensive Chemotherapy
Princess Alexandra Brisbane	Kirk Morris, Ashleigh Scott	Real world” review of efficacy and safety of pomalidomide in Australian patients with relapsed refractory myeloma.
Princess Alexandra Brisbane	Simon Durrant, Jason Butler, Cameron Curley, Glen Kennedy, Steven Lane, Ashish Misra, Kirk Morris, Elango Subramonia Pillai, Siok Tey	A randomised, open label, multi-centre, Phase III study to investigate the efficacy of bendamustine compared to treatment of physician’s choice in the treatment of subjects with indolent Non-Hodgkin’s Lymphoma (NHL) refractory to rituximab
David Gottlieb, Westmead Hospital, NSW	Geoff Hill, Glen Kennedy, Siok-Keen Tey	Therapeutic infusion of most closely HLA-matched third party donor-derived virus-specific cytotoxic T-lymphocytes in patients with active viral reactivation post-allogeneic stem cell transplantation (R3ACT)

Research Awards and Achievements

Recipient	Award	Event
Nienke Zomerdijk	Professor Lawrie Powell Early Career Research Award	25th Annual RBWH Healthcare Symposium, September, 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Nienke Zomerdijk, Jane Turner, Geoff Hill	Haematology/Bone Marrow Transplant	A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors.	University of Queensland	\$26,000	\$78,000 (2015-2018)
Lane, Steven	QIMRB	Targeting Leukaemia Stem Cells through inhibition of telomerase	NHMRC Project Grant (Sole CI)	\$219,000	\$657,000 (2016-2018)
Lane, Steven	QIMRB	The evolution of acute myeloid leukaemia through the in situ transformation of haematopoietic stem cells	NHMRC Project Grant (Sole CI)	\$215,667	\$647,000 (2016-2018)
Lane, Steven	QIMRB	Deciphering the overlapping roles of SSB1 and SSB2 in the regulation of haematopoiesis and intestinal homeostasis	NHMRC Project Grant (CIB)	\$239,750	\$959,000 (2015-2018)
Lane, Steven	QIMRB	Starving Stem Cells	NHMRC Project Grant (CIA)		\$484,000 (2014-2016)
Lane, Steven	QIMRB	EGFR and MET signalling in MPN	NHMRC Project Grant (CIB)		\$585,000 (2016-2018)
Steven Lane	Clinical Haematologist, RBWH	Research into acute leukaemia	CSL Centenary Fellowship		\$1,250,000
Siok Tey	Bone Marrow Transplant/ Haematology	The interplay between IL-6 and GVHD on anti-viral and anti-leukemic immunity	NHMRC Project Grant	N/A	\$489,376
Prof Geoff Hill	Director of Research – CCS RBWH	Immunological therapies for cancer, chronic infection and autoimmunity.	NH&MRC Program grant: APP1071822	\$359,506	\$1,797,530 (2015-2019)
Prof Geoff Hill	Director of Research – CCS RBWH	RORgt inhibition as a novel therapeutic for the prevention of GVHD after allogeneic BMT.	Cancer Council Qld	\$100,000	\$200,000 (2016-2017)
Prof Geoff Hill	Director of Research – CCS RBWH	A multi-centre phase 3 study of tocilizumab for the prevention of acute GVHD	Roche Pharmaceuticals	\$483,333	\$1,450,000 (2016-2018)
Prof Geoff Hill	Director of Research – CCS RBWH		NHMRC senior Principal research Fellowship		\$938,900 (2016-2020)
Kate Markey	Clinical Haematology Registrar	The Post BMT microbiome	QLD Health Junior Research Fellowship	\$500,000	(2016-2018)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Swords RT, Greenberg PL, Wei AH, Durrant S , Advani AS, Hertzberg MS, Lewis ID, Rivera G, Gratzinger D, Fan AC, Felsner DW, Cortes JE, Watts JM, Yarranton GT, Walling JM, Lancet JE. KB004, a first in class monoclonal antibody targeting the receptor tyrosine kinase EphA3, in patients with advanced hematologic malignancies: Results from a phase 1 study. <i>Leuk Res.</i> 2016;50:123-131.
Journal article	Kruger P, Cooney J, Nivison-Smith I, Dodds A, Bardy P, Ma D, Szer J, Durrant S . All is not lost in accelerated phase/blast crisis and after tyrosine kinase inhibitors fail in chronic myeloid leukaemia: a retrospective study of allogeneic stem cell transplant outcomes in Australia and New Zealand. <i>Bone Marrow Transplant.</i> 2016;51(10):1400-1403.
Journal article	Verstovsek S, Vannucchi AM, Griesshammer M, Masszi T, Durrant S , Passamonti F, Harrison CN, Pane F, Zachee P, Kirito K, Besses C, Hino M, Moiraghi B, Miller CB, Cazzola M, Rosti V, Blau I, Mesa R, Jones MM, Zhen H, Li J, Francillard N, Habr D, Kiladjian JJ. Ruxolitinib versus best available therapy in patients with polycythemia vera: 80-week follow-up from the RESPONSE trial. <i>Haematologica.</i> 2016;101(7):821-9.
Journal article	Tey SK , Vuckovic S, Varelias A, Martins JP, Olver S, Samson L, Sturgeon E , Leach J , Avery J , Nakagaki M , Butler JP , Curley C , Morton AJ , Durrant ST , Kennedy GA , Hill GR . Pharmacokinetics and immunological outcomes of alemtuzumab-based treatment for steroid-refractory acute GvHD. <i>Bone Marrow Transplant.</i> 2016;51(8):1153-5.
Journal article	Siegel DS, Dimopoulos M, Jagannath S, Goldschmidt H, Durrant S , Kaufman JL, Leleu X, Nagler A, Offner F, Graef T, Eid JE, Houp J, Gause C, Vuocolo S, Anderson KC. VANTAGE 095: An International, Multicenter, Open-Label Study of Vorinostat (MK-0683) in Combination With Bortezomib in Patients With Relapsed and Refractory Multiple Myeloma. <i>Clin Lymphoma Myeloma Leuk.</i> 2016;16(6):329-334.e1.
Journal article	Vajdic CM, Mayson E, Dodds AJ, O'Brien T, Wilcox L, Nivison-Smith I, Le Marsney R, Daniels B, Ashton LJ; CAST study investigators . Second Cancer Risk and Late Mortality in Adult Australians Receiving Allogeneic Hematopoietic Stem Cell Transplantation: A Population-Based Cohort Study. <i>Biol Blood Marrow Transplant.</i> 2016;22(5):949-56.
Journal article	Dimopoulos MA, Moreau P, Palumbo A, Joshua D, Pour L, Hájek R, Facon T, Ludwig H, Oriol A, Goldschmidt H, Rosiñol L, Straub J, Suvorov A, Araujo C, Rimashevskaya E, Pika T, Gaidano G, Weisel K, Goranova-Marinova V, Schwarzer A, Minuk L, Masszi T, Karamanesht I, Offidani M, Hungria V, Spencer A, Orłowski RZ, Gillenwater HH, Mohamed N, Feng S, Chng WJ; ENDEAVOR Investigators . Carfilzomib and dexamethasone versus bortezomib and dexamethasone for patients with relapsed or refractory multiple myeloma (ENDEAVOR): a randomised, phase 3, open-label, multicentre study. <i>Lancet Oncol.</i> 2016;17(1):27-38.
Journal article	Mesa R, Verstovsek S, Kiladjian JJ, Griesshammer M, Masszi T, Durrant S , Passamonti F, Harrison CN, Pane F, Zachee P, Zhen H, Jones MM, Parasuraman S, Li J, Côté I, Habr D, Vannucchi AM. Changes in quality of life and disease-related symptoms in patients with polycythemia vera receiving ruxolitinib or standard therapy. <i>Eur J Haematol.</i> 2016;97(2):192-200.
Journal article	Scott A , Morris K , Butler J , Mills AK, Kennedy GA . Treatment of aplastic anaemia with lower-dose anti-thymocyte globulin produces similar response rates and survival as per standard dose anti-thymocyte globulin schedules. <i>Intern Med J.</i> 2016;46(10):1198-1203.
Journal article	Fleming S, Ong DM, Jackson K, Avery S, Mollee P, Marlton P, Kennedy G , Wei AH. Partial response after induction chemotherapy has clinical relevance in acute myeloid leukaemia. <i>Br J Haematol.</i> 2016 Mar 31. doi: 10.1111/bjh.14063
Journal article	Scott A , Baidya S, Butler J , Morris K , Thornton A, Kennedy GA . Pretransplant platelet transfusion refractoriness is not associated with platelet nonengraftment in T-replete hematopoietic progenitor cell transplantation for hematologic malignancies. <i>Transfusion.</i> 2016;56(1):164-9.
Journal article	Mediwake H, Morris K , Curley C , Butler J , Kennedy G . Use of Brentuximab vedotin as salvage therapy pre-allogeneic stem cell transplantation in relapsed / refractory CD30 positive lympho-proliferative disorders: a single centre experience Accepted for publication, Internal Medicine Journal, October 2016 Use of Brentuximab vedotin as salvage therapy pre-allogeneic stem cell transplantation in relapsed / refractory CD30 positive lympho-proliferative disorders: a single centre experience, <i>Internal Medicine Journal</i> Accepted manuscript online: 1 MAR 2017, Heshani Mediwake, Kirk Morris, Cameron Curley, Jason Butler and Glen Kennedy , DOI: 10.1111/imj.13415
Journal article	Le Texier L, Lineburg KE, Cao B, McDonald-Hyman C, Leveque-EI Mouttie L, Nicholls J, Melino M, Nalkurthi BC, Alexander KA, Teal B, Blake SJ, Souza-Fonseca-Guimaraes F, Engwerda CR, Kuns RD, Lane SW , Teng M, Teh C, Gray D, Clouston AD, Nilsson SK, Blazar BR, Hill GR , MacDonald KP. Autophagy-dependent regulatory T cells are critical for the control of graft-versus-host disease. <i>JCI Insight.</i> 2016;1(15):e86850
Journal article	Austin R, Smyth MJ, Lane SW . Harnessing the immune system in acute myeloid leukaemia. <i>Crit Rev Oncol Hematol.</i> 2016;103:62-77.
Journal article	Bruedigam C, Lane SW . Telomerase in hematologic malignancies. <i>Curr Opin Hematol.</i> 2016;23(4):346-53.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Bagger FO, Bruedigam C, Lane SW . Analysis of telomerase target gene expression effects from murine models in patient cohorts by homology translation and random survival forest modeling. <i>Genom Data</i> . 2016;7:275-80.
Journal article	Jung HJ, Seo I, Casciello F, Jacquelin S, Lane SW , Suh SI, Suh MH, Lee JS, Baek WK. The anticancer effect of chaetocin is enhanced by inhibition of autophagy. <i>Cell Death Dis</i> . 2016;7:e2098.
Journal article	Olsen CM, Lane SW , Green AC. Increased risk of melanoma in patients with chronic lymphocytic leukaemia: systematic review and meta-analysis of cohort studies. <i>Melanoma Res</i> . 2016;26(2):188-94.
Journal article	Vu T, Austin R, Kuhn CP, Bruedigam C, Song A, Guignes S, Jacquelin S, Ramshaw HS, Hill GR, Lopez AF, Lane SW . Jak2V617F driven myeloproliferative neoplasm occurs independently of interleukin-3 receptor beta common signaling. <i>Haematologica</i> . 2016;101(3):e77-80
Journal article	Bunting MD, Varelias A, Souza-Fonseca-Guimaraes F, Schuster IS, Lineburg KE, Kuns RD, Fleming P, Locke KR, Huntington ND, Blazar BR, Lane SW , Tey SK , MacDonald KP, Smyth MJ, Degli-Esposti MA, Hill GR . GVHD prevents NK-cell-dependent leukemia and virus-specific innate immunity. <i>Blood</i> . 2017;129(5):630-642. doi: 10.1182/blood-2016-08-734020. Epub 2016 Dec 7.
Journal article	Dasari V, Rehan S, Tey SK , Smyth MJ, Smith C, Khanna R. Autophagy and proteasome interconnect to coordinate cross-presentation through MHC class I pathway in B cells. <i>Immunol Cell Biol</i> . 2016;94 (10):964-974.
Journal article	Smith C, Brennan RM, Tey SK , Smyth MJ, Burrows SR, Miles JJ, Hill GR, Khanna R. Coinfection with Human Cytomegalovirus Genetic Variants in Transplant Recipients and Its Impact on Antiviral T Cell Immune Reconstitution. <i>J Virol</i> . 2016;90(16):7497-507.
Journal article	Ullah MA, Hill GR , Tey SK . Functional Reconstitution of Natural Killer Cells in Allogeneic Hematopoietic Stem Cell Transplantation. <i>Front Immunol</i> . 2016;7:144.
Journal article	Melino M, Gadd VL, Alexander KA, Beattie L, Lineburg KE, Martinez M, Teal B, Le Texier L, Irvine KM, Miller GC, Boyle GM, Hill GR , Clouston AD, Powell EE, MacDonald KP. Spatiotemporal characterization of the cellular and molecular contributors to liver fibrosis in a murine hepatotoxic-injury model. <i>Am J Pathol</i> . 2016, 186(3):524-38
Journal article	Montes de Oca M, Kumar R, de Labastida Rivera F, Amante FH, Sheel M, Faleiro RJ, Bunn PT, Best SE, Beattie L, Ng SS, Edwards CL, Muller W, Cretney E, Nutt SL, Smyth MJ, Haque A, Hill GR , Sundar S, Kallies A, Engwerda CR. Blimp-1-dependent IL-10 production by Tr1 cells regulates TNF-mediated tissue pathology. <i>PLoS Pathog</i> . 2016, 12(1):e1005398
Journal article	Flynn RP, Paz KG, Du J, Reichenbach DK, Taylor PA, Panoskaltis-Mortari A, Vulic A, Luznik L, MacDonald KPA, Hill GR , Nyuydzef M, Weiss J, Chen W, Trzeciak A, Serody JS, Aguilar EG, Murphy WJ, Maillard I, Munn DH, Cutler C, Antin JH, Ritz J, Waksal S, Anin-Shorov A, Blazar BR. Rho-associated kinase 2 (ROCK2) inhibition decreases pathology of murine and human chronic GVHD through Stat3-dependent mechanism. <i>Blood</i> 2016, 127(17):2144-54
Journal article	Leveque-El mouitte L*, Koyama M*, Le Texier L, Markey KA, Cheong M, Kuns KD, Lineburg KE, Teal BE, Alexander KA, Clouston AD, Blazar BR, Hill GR* , MacDonald KPA*. Corruption of dendritic cell antigen presentation during acute GVHD leads to a failure of regulatory T cell homeostasis and chronic GVHD. <i>Blood</i> 2016, 128(6):794-804
Journal article	McDonald-Hyman C, Flynn R, Panoskaltis-Mortari A, Peterson N, MacDonald KP, Hill GR , Luxnik L, Serody JS, Murphy WJ, Maillard I, Munn DH, Turka LA, Koreth J, Cutler CS, Soiffer RJ, Antin JH, Ritz J, Blazar BR. Therapeutic regulatory T cell adoptive transfer ameliorates established murine chronic GVHD in a CXCR5-dependent manner. <i>Blood</i> 2016, 128(7):1013-7
Journal article	Ngiow SF, Young A, Blake SJ, Hill GR , Yagita H, Teng MW, Korman AJ, Smyth MJ. Agonistic CD40 mAb-driven IL-12 reverses resistance to anti-PD1 in a T cell-rich tumor. <i>Cancer Res</i> . 2016, 76(21):6266-6277
Journal article	Sebina I, James KR, Soon MSF, Fogg LG, Best SE, Rivers F, Montes de Oca M, Amante FH, Thomas BS, Beattie L, Souza-Fonseca-Guimaraes F, Smyth MJ, Hertzog PJ, Hill GR , Hutloff A, Engwerda CR, Haque A. IFNAR1-signalling obstructs ICOS-mediated humoral immunity during non-lethal blood-stage Plasmodium infection. <i>Plos Pathogens</i> . 2016, Nov 3;12(11):e1005999.
Journal article	Zaman M, Ozberk V, Langshaw EL, McPhun V, Powell JL, Phillips ZN, Ho MF, Calcutt A, Batzloff MR, Toth I, Hill GR , Pandey M, Good MF. Novel platform technology for modular mucosal vaccine that protects against streptococcus. <i>Sci Rep</i> . 2016 Dec 15;6:39274.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Transplantation in FLT-3-ITD+ AML with normal karyotype is associated with improved overall survival Taylor E, Morris K, Ellis M, Marlton P, Cochrane T, Clarey J, Irving I, Baveshi K & Kennedy G Oral Presentation, Haematology Society of Australia and New Zealand, 2016 Congress, Melbourne
Oral	Early acute kidney injury post allogeneic stem cell transplant is associated with increased risk of GVHD, higher mortality and reduced survival Birchley A, Butler J, Curley C, Scott A & Kennedy G Oral Presentation, Haematology Society of Australia and New Zealand, 2016 Congress, Melbourne
Oral	A single high-dose Cytarabine (HiDAC) during induction-consolidation may not be adequate for patients with a new diagnosis of acute myeloid leukaemia (AML) not planned for allogeneic haematopoietic stem cell transplantation (alloHSCT) in 1st complete remission (CR1) Schwarer A, Wight J, Jackson K, Beligaswatte A, Butler J, Kennedy G , Martin L, Lewis I, Hiwase D, Zantomio D, He S, Grigg A, Morris K, Mollee P & Marlton P Oral Presentation, Haematology Society of Australia and New Zealand, 2016 Congress, Melbourne
Poster and Other Abstracts	Allelic ratio in FLT3-ITD+ AML does not correlate with outcome Taylor E, Kennedy G , Ellis M, Marlton P, Cochrane T, Clarey J, Irving I, Baveshi K & Morris K Poster presentation, Haematology Society of Australia and New Zealand, 2016 Congress, Melbourne
Poster and Other Abstracts	Outcome of Mismatched Unrelated Donor (MMUD) allogeneic stem cell transplantation for acute leukaemia, MDS/MPN: a single centre experience Mediwake H, Curley C, Butler J, Sturgeon E, Leach J & Kennedy G Poster presentation, Haematology Society of Australia and New Zealand, 2016 Congress, Melbourne
Poster and Other Abstracts	High dose cytarabine (HiDAC) improves the cure rate of patients with newly diagnosed acute myeloid leukemia (AML): is it better to be given as induction therapy or as consolidation therapy? Schwarer AP, Wight J, Jackson K, Beligaswatte AM, Butler JP, Kennedy G , Martin L, Lewis ID, Hiwase D, Zantomio D, He SZ, Grigg A, Morris K, Mollee P, & Marlton P Poster presentation, American Society of Hematology 57th Annual Meeting, San Diego, USA Blood 2016; poster #3989
Poster and Other Abstracts	Early Acute Kidney Injury Post Allogeneic Hematopoietic Progenitor Cell Transplant Is Associated with Increased Risk of Gvhd, Higher Mortality and Reduced Survival Clinical Allogeneic Transplantation: Conditioning Regimens, Engraftment, and Birchley A, Butler JP, Scott A, Curley C & Kennedy G Poster presentation, American Society of Hematology 57th Annual Meeting, San Diego, USA Blood 2016; poster #2227
Oral	Bruedigam C, ... Lane SW . The Preclinical Efficacy of a Novel Telomerase Inhibitor (Imetelstat) in AML – a Randomized Trial in Patient-Derived Xenografts. American Society of Hematology, San Diego, CA. Dec 2016. ASH Abstract Achievement Award.
Oral	Jacquelin S, ... Lane SW . CRISPR-Cas9 Mediated Disruption of Dnmt3a in Jak2V617F Hematopoietic Stem Cells Accelerates Disease Phenotype and Induces Lethal Myelofibrosis. American Society of Hematology, San Diego, CA. Dec 2016. Nominated for the “Best of ASH” session, 2016 meeting.
Invited Speaker	Lane SW . In vivo transformation of hematopoietic stem cells by Cdx2 expression. 2016 European Hematology Association molecular hematopoiesis workshop.
Invited Plenary Speaker	Lane SW . Leukaemia stem cells, Brisbane Cancer Conference. Nov 2016.
Invited Plenary Speaker	Lane SW . Cdx2 has an important role in the generation of MDS and AML. New Directions in Leukaemia Research, Noosa, Australia. March 2016
Oral	Zomerdijk N, Jane T, Hill G , Gottlieb D. The psychosocial impact of donating haematopoietic stem cells on adult sibling donors. University of Queensland Discipline of General Practice Research Day. Brisbane, March 2016.
Poster	Zomerdijk N, Jane T, Hill G , Gottlieb D. The psychosocial impact of donating haematopoietic stem cells on adult sibling donors. Australian Society for Medical Research QLD Postgraduate Student Conference. Brisbane, June 2016.
Poster	Zomerdijk N, Jane T, Hill G , Gottlieb D. A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors. The 25th Annual RBWH Healthcare Symposium. Brisbane, September 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Zomerdijk N, Jane T, Hill G , Gottlieb D. A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors. The 18th International Psycho Oncology Society Congress. Dublin, Ireland, October 2016.
Poster	Zomerdijk N, Jane T, Hill G , Gottlieb D. A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors. The 2nd Annual Metro North Hospital and Health Service Cancer Care Services Research Retreat. Brisbane, November 2016.
Poster	Zomerdijk N, Jane T, Hill G , Gottlieb D. A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors. The International Congress of Behavioural Medicine. Melbourne, December 2016.
Invited Plenary Speaker	Hill G . Chronic GVHD: What have we learn from experimental models? American Society of Bone Marrow Transplantation, Hawaii, USA. 2016
Oral	Hill G. New pathways activating Th17 cells. GVH/GVL. 13th International Symposium, Regensburg, Germany. 2016
Oral	Hill G . Differential roles of tissue and peripheral antigen presentation in driving graft-versus-host disease and tolerance. International Congress of Immunology meeting, Melbourne Australia. 2016
Oral	Hill G . IL-6 inhibition in GVHD. Freiburg Translational Research Centre Opening Symposium, Freiburg, Germany. 2016
Oral	Hill G . Novel cytokine and cellular therapy in transplantation. Japanese Society of Hematology, Yokohama, Japan. 2016
Oral	Hill G . Recent insights into the mechanisms of graft-versus-host disease. Japanese Society of Hematology, Yokohama, Japan.
Oral	Hill G . Cytokines the microbiome and GVHD. BMT workshop, San Diego, USA.

Other communications and outputs

Zomerdijk N, Turner J, Hill G, Gottlieb D. A multi-center, prospective, exploratory study of the psychosocial impact of donating haematopoietic stem cells on adult sibling donors. From www.myvmc.com/clinical-trials/multi-center-prospective-exploratory-study-psychosocial-impact-donating-haematopoietic-stem-cells-adult-sibling-donors/ (2016, October 18).

Zomerdijk N. Fundraising activities featured in RBWH Foundation Winter News 2016: www.rbwhfoundation.com.au/images/stories/Publications/RBWH_WINTER_Newsletter_FINAL.pdf

Medical Oncology



David Wyld
Director
Medical Oncology

The Cancer Care Services Medical Oncology (MO) Department, as well as providing clinical services to the Metro North HHS district, acts as a major tertiary referral centre in Qld. It has an ongoing, active clinical research program, which continues to expand and develop each year. The unit's research program has a number of different components, each of which has progressed in 2016, only a few of which I can highlight in this summary.

Firstly, the MO clinical trials unit, which is widely recognized as a service that conducts exceptionally high quality clinical research. This recognition has resulted in the unit collaborating in an increasing number of studies in 2016. 20 new studies commenced in 2016, six studies were completed and archived, and there were a total of 111 studies active, with 1205 patients managed on a clinical trial protocol in 2016. That the unit could undertake this number of clinical trials, and conduct them at such a high standard, is directly related to the quality of the staff involved at all levels, particularly the clinical trials research staff and the Medical Oncologists involved. Many of these trials offer our patients access to new therapies not otherwise available, and all help advance knowledge to help improve outcomes for patients in the future.

In 2016, the Department has continued to increase the number of external partners it is undertaking collaborative research projects with. Examples include various groups within QIMR (Immunology in Cancer and Infection – Prof Mark Smyth, Population Health – Rachel Neale, Conjoint Gastroenterology – Barbara Leggett / Vicki Whitehall, Brain Cancer – Bryan Day), and Sociology colleagues at the University of NSW, led by Professor Alex Broom. An exciting new opportunity for collaborative research is in the area of Cancer Imaging, where we are collaborating with the Department of Nuclear Medicine and other researchers associated with HIRF to undertake novel imaging studies, in particular involving functional imaging studies in RBWH patients with cancer.

These are in addition to the extensive network of collaborators our team work with from the University of Qld and QUT, as well as the multiple clinical collaborators from centres across the country. In addition, many MO staff have active roles in a number Australian Cancer Clinical Trial Collaborative groups.

One major individual highlight in 2016 was Dr Matthew Burge receiving national recognition when he was awarded the Australasian Gastrointestinal Trials Group 2016 Innovation Fund Award. We now look forward to him now leading an Australia wide study in the treatment of metastatic colorectal cancer in the near future.

I think the expanding research program within the department is best demonstrated by the increased number of not only publications in 2016, but also the large number of both oral and poster presentations given by departmental staff at a national level this year.

Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Dr Elizabeth Ahern	PhD UQ 2015 -	Targeting RANK/RANKL in combination immunotherapy using murine and translational models of melanoma, prostate and other solid organ malignancies.	Mark Smyth, Michele Teng, David Wyld
Natasha Roberts	PhD QUT 2016 -	Patient Reported Outcomes in a Medical Oncology Setting	Monika Janda, Kim Alexander, David Wyld
Benjamin Van Haeringen	MBBS Hons 2016 – 2017 UQ	Prognostic factors and biomarkers in a cohort of metastatic colorectal cancer patients managed at RBWH/TPCH and Rockhampton cancer services	David Wyld
Timothy Kalas	MBBS Hons 2016 – 2017 UQ	Dose intensity and morbidity of therapy in women older than 65 years undergoing adjuvant chemotherapy for breast cancer at RBWH	David Wyld
Teresa Brown	PhD UQ	A randomised comparison of early prophylactic feeding via gastrostomy versus standard care in high risk patients with head and neck cancer	Brett Hughes, Merrilyn Banks, Judy Bauer
Natasha Roberts	PhD QUT 2016 -	Patient Reported Outcomes in a Medical Oncology Setting	Monika Janda, Kim Alexander, David Wyld

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Dr Monica Dumbrava	Research Fellow	Medical Oncology	Queensland Health
Annette Cubitt	Manager, Clinical Trials Unit	Clinical Trials Unit Medical Oncology	Queensland Health
Jenny Campbell	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Amy Ives	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Andrea McKenzie	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Wendy Pritchard	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Erin Purdon	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Megan Ward	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Natasha Roberts	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Gel Bolanos	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Diana Lewis	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
David Hickey	Clinical Trial Coordinator	Clinical Trials Unit Medical Oncology	Queensland Health
Jennifer Lonton	Research Development Officer	Clinical Trials Unit Medical Oncology	Queensland Health
Victoria Holt	Research Administration Officer	Clinical Trials Unit Medical Oncology	Queensland Health
Danni Church	Research Administration Officer	Clinical Trials Unit Medical Oncology	Queensland Health
Denise Flynn	Research Administration Officer	Clinical Trials Unit Medical Oncology	Queensland Health

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers	Research Project Title
David Wyld, Matthew Burge	Rachel Neale, Vanessa Beesley (QIMR)	PRO-NET: Patient reported outcomes in people with neuroendocrine tumours.
Natasha Roberts, David Wyld	Monika Janda (QUT), Kim Alexander (QUT)	Patient Report Outcomes (PROs) in a medical oncology setting: A low risk project to identify staff perceptions about the use of PRO data in a clinical setting
Zarnie Lwin	Alex Broom (UNSW)	Cultural biographies, medical knowledges: A sociological study at the intersection of cancer and culture
Zarnie Lwin	Emma Kirby (UNSW)	Informal care and living with glioma
Matthew Burge	Euan Walpole (MSHHS)	Prospective evaluation of FOLFIRINOX for metastatic or locally advanced Pancreatic Cancer
Jane Turner, Brett Hughes	IHBI, QUT	Enhances Study: Enhancing Head And Neck Cancer Patient's Experiences of Survivorship
Zarnie Lwin	Alex Broom (UNSW), David Sibritt (UTS), Rosemary Harrup (RHH), Deme Karikios (NHMRC), Kay Francis (MOGA)	2016 Australian Medical Oncologist Workforce Survey
Zarnie Lwin, Alex Broom (UNSW)	David Sibritt (UTS), Rosemary Harrup (RHH), Deme Karikios (NHMRC), Kay Francis (MOGA)	Australian Medical Oncologist Workforce Qualitative Study

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Australasian Gastrointestinal Trials Group	Matthew Burge	INTEGRATE II A Randomised Phase III Double Blind, Placebo Controlled Study of regorafenib in Refractory, Advanced GastroOesophageal Cancer
Australasian Gastrointestinal Trials Group	Matthew Burge	ACTICCA-1 study: Adjuvant Chemotherapy With Gemcitabine and Cisplatin Compared to Observation After Curative Intent Resection of Cholangiocarcinoma and Muscle Invasive Gall Bladder Carcinoma (ACTICCA-1 Trial)
Australasian Gastrointestinal Trials Group	David Wyld	CONTROL NETS: Phase II multi-arm, randomised open label trial of Lutetium-177 Octreotate peptide receptor radionucleotide therapy, capecitabine/temozolamide chemotherapy, or the combination in the first or second line treatment of low to intermediate grade gastroenteropancreatic neuroendocrine tumours
Walter and Eliza Hall Institute, Colorectal Translational Oncology Group	Matthew Burge	ctDNA in Pancreatic Cancer
Australasian Gastrointestinal Trials Group	Matthew Burge	DOCTOR: A Randomised Phase II Trial of Pre-operative Cisplatin, 5 Fluorouracil and Docetaxel or Cisplatin, 5 Fluorouracil, Docetaxel plus Radiotherapy based on poor early response to standard chemotherapy for resectable adenocarcinoma of the oesophagus and/or OG Junction
Ludwig Institute for Cancer Research	Matthew Burge	Circulating Tumour DNA as a Sensitive and Specific Marker of Response to Therapy and of Occult Disease in Colorectal Cancer - for resectable CRC liver mets pts
Australasian Gastrointestinal Trials Group	Matthew Burge	ATTACHE: A Trial of Timing of Surgery and Adjuvant Chemotherapy for Hepatic Metastases from Colorectal Cancer
Peter MacCallum Cancer Centre	Matthew Burge	Predict IR : The utility of genomics and functional imaging to predict Irinotecan pharmacokinetics and pharmacodynamics
Peter MacCallum Cancer Centre	Matthew Burge	Predict SU : The utility of genomics and functional imaging to predict Sunitinib pharmacokinetics and pharmacodynamics
Australasian Gastrointestinal Trials Group	Matthew Burge	GAP: Phase II study of pre-operative Gemcitabine and Abraxane for resectable Pancreas cancer.

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Peter MacCallum Cancer Centre	David Wyld	INTERNET: A phase II study of Everolimus (RAD001) in patients with FDG-PET positive intermediate grade (KI-67 3-20%) Pancreatic neuroendocrine tumours
Australasian Gastrointestinal Trials Group/European Organization for Research and Treatment of Cancer	David Wyld	AGITG GIST-STI571- Phase III randomised, intergroup, international trial assessing the clinical activity of STI571 at two dose levels in patient with unresectable or metastatic malignant gastrointestinal stromal tumours (GIST) expressing the KIT receptor Tyrosine Kinase (CD117)
Walter and Eliza Hall Institute	Matthew Burge	DYNAMIC: Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage II Colon Cancer
Walter and Eliza Hall Institute	Matthew Burge	Evaluation of temporal dynamics of RAS Mutation emergence in Cell Free DNA (cfDNA) in response to first-line cetuximab anti-EGFR therapy in Patients with Metastatic Colorectal Cancer
Centre for Medical Psychology and Evidence Based Decision Making	Matthew Burge	CHALLENGE: A Phase III study of the impact of a Physical Activity program on Disease-Free Survival in patients with high risk Stage II or Stage III Colon Cancer: a randomised controlled trial (CO.21)
Australasian Gastrointestinal Trials Group/National Cancer Centre, Singapore	Melissa Eastgate	ASCOLT: Aspirin for Dukes C and high risk Dukes B Colorectal Cancers -- an international, multi centre, double blind, randomised placebo controlled Phase III trial (AGITG)
Walter and Eliza Hall Institute	Matthew Burge	ctDNA as a Marker of Complete Pathological Response and Long Term Outcome for Locally Advanced Rectal Cancer Treated with Pre-operative Chemoradiotherapy
Ludwig Institute for Cancer Research	Matthew Burge	Circulating Tumour DNA as a Marker of Occult Disease in Stage II Colorectal Cancer and Response to Therapy in Metastatic Colorectal Cancer
Australasian Gastrointestinal Trials Group	Matthew Burge	AGITG SCOT Trial: Short Course Oncology Therapy - A Study of Adjuvant Chemotherapy in Colorectal Cancer
Australasian Gastrointestinal Trials Group/European Organization for Research and Treatment of Cancer	Matthew Burge	PETACC6- Preoperative chemoradiotherapy and postoperative chemotherapy with capecitabine and oxaliplatin vs. capecitabine alone in locally advanced rectal cancer
Theresa Brown, Department Nutrition and Dietetics, RBWH	Brett Hughes	PEG Study - A randomized comparison of early prophylactic feeding via gastrostomy versus standard care in high risk patients with head and neck cancer
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	VELIA (M13-694) A Phase 3 Placebo Controlled Study of Carboplatin/Paclitaxel With or Without Concurrent and continuous Maintenance Veliparib in Subjects with Previously Untreated Stages III or IV High Grade Serous Epithelial Ovarian, Fallopian Tube, or Primary Peritoneal Cancer
Australia New Zealand Gynaecological Oncology Group	Alison Hadley	OUTBACK - A PHASE III trial of adjuvant chemotherapy following chemoradiation as primary treatment for locally advanced cervical cancer compared to chemoradiation alone
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	PARAGON: A study to assess the activity of anastrozole, an aromatase inhibitor, in women with oestrogen receptor and/or progesterone receptor positive (ER/PR+ve) and therefore potentially hormone responsive recurrent or metastatic gynaecological cancers
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	OVAR 2.21: A prospective randomized Phase III trial of carboplatin/ gemcitabine/ bevacizumab vs. carboplatin/pegylated liposomal doxorubicin/ bevacizumab in patients with platinum-sensitive recurrent ovarian cancer.
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	Evaluation of Symptom Benefit during Palliative Chemotherapy in Women with recurrent Ovarian Cancer: measuring subjective improvement as well as objective response to estimate the benefit of palliative chemotherapy in women with platinum resistant or refractory ovarian cancer
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	ICON 8: an international trial comparing weekly chemotherapy with 3 weekly chemotherapy for women with ovarian cancer, fallopian tube cancer or primary peritoneal cancer
Australia New Zealand Gynaecological Oncology Group	Jeffrey Goh	OVAR 16 - A Phase III study to evaluate the efficacy and safety of Pazopanib monotherapy versus placebo in women who have not progressed after first line chemotherapy for epithelial ovarian, fallopian tube or primary peritoneal cancer
Australia New Zealand Urogenital and Prostate Cancer Trials Group	David Wyld	Phase III BEP Trial: A randomised phase 3 trial of accelerated versus standard BEP chemotherapy for participants with intermediate and poor-risk advanced germ cell tumours
Australia New Zealand Urogenital and Prostate Cancer Trials Group	Aneta Suder	ENZAMET Trial: A randomised phase 3 trial of enzalutamide in first line androgen deprivation therapy for metastatic prostate cancer
Hoosier Oncology Group, USA	Jeffrey Goh	BNC105 Renal: Phase I/II Study of BNC105P in combination with Everolimus or following Everolimus for Progressive Metastatic Clear Cell Renal Cell Carcinoma following prior Tyrosine Kinase Inhibitor

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Cooperative Trials Group for Neuro-oncology	Zarnie Lwin	ACED: Randomised phase II study of acetazolamide plus dexamethasone versus dexamethasone alone for management of cerebral oedema in recurrent or progressive high grade gliomas.
Cooperative Trials Group for Neuro-oncology	Zarnie Lwin	VERTU - Veliparib, Radiotherapy and Temozolomide trial in Unmethylated MGMT Glioblastoma: A Randomised Phase II study of veliparib + radiotherapy (RT) with adjuvant temozolomide (TMZ) + veliparib versus standard RT + TMZ followed by TMZ in newly diagnosed glioblastoma (GBM) with unmethylated O (6)-methylguanine-DNA methyltransferase
Cooperative Trials Group for Neuro-oncology	Po-Ling Inglis	CATNON:Phase III trial comparing no adjuvant chemotherapy versus adjuvant therapy until progression for anaplastic glioma without 1p/19q loss. An EORTC/NCI-C/ RTOG/MRC/HUB/ intergroup study
Medical Oncology, Cancer Care Services, RBWH	Michelle Nottage	A prospective study investigating the impact of the definitive chemoradiation in locally and/or regionally advanced squamous cell carcinoma of the skin. CRUST
Australia New Zealand Breast Cancer Trials Group	Michelle Nottage	PALbociclib CoLaborative Adjuvant Study: A Randomized Phase III Trial of Palbociclib With Standard Adjuvant Endocrine Therapy Versus Standard Adjuvant Endocrine Therapy Alone for Hormone Receptor Positive (HR+) / Human Epidermal Growth Factor Receptor 2 (HER2)-Negative Early Breast Cancer
Australia New Zealand Breast Cancer Trials Group	Po-Ling Inglis	Penelope B: Phase III study evaluating palbociclib (PD0332991), a Cyclin-Dependent Kinase (CDK) 4/6 Inhibitor in patients with hormone-receptor-positive, HER2-normal primary breast cancer with high relapse risk after neoadjuvant chemotherapy
Kathleen Houston, Sunshine Coast Oncology Research Group	Michelle Nottage	TAPS: Gabapentin for taxane acute pain syndrome - a phase III randomised, placebo-controlled, crossover trial
Australia New Zealand Breast Cancer Trials Group/Breast International Group	Michelle Nottage	TEXT-Bone: A substudy of the TEXT trial to evaluate serial bone markers for bone remodeling, serial growth factors, and bone mineral density
Australia New Zealand Breast Cancer Trials Group/Breast International Group	Michelle Nottage	TEXT: A Phase III Trial Evaluating the Role of Exemestane plus GnRH analogue as Adjuvant Therapy for premenopausal women with endocrine responsive breast cancer
Australia New Zealand Breast Cancer Trials Group/Breast International Group	Michelle Nottage	An International multi-centre study of tamoxifen vs. Anastrozole in postmenopausal women with hormone sensitive ductal carcinoma in situ (DCIS) IBIS II
Australia New Zealand Breast Cancer Trials Group/ECOG-ACrIN	Po-Ling Inglis	TAILORx Program for the Assessment of Clinical Cancer Tests (PACCT-1): Trial Assigning Individualized Options for Treatment: The TAILORx Trial
Australia New Zealand Breast Cancer Trials Group/Breast International Group	Michelle Nottage	Suppression of Ovarian Function Trial (SOFT) A Phase III Trial Evaluating the the Role of Ovarian function Suppression and the Role of Exemestane as Adjuvant therapies for premenopausal women with Endocrine responsive breast cancer
Australia New Zealand Breast Cancer Trials Group/Breast International Group	Michelle Nottage	A phase III study to evaluate Letrozole as adjuvant endocrine therapy for postmenopausal women with receptor (ER and/or PgR) positive tumours
University of New South Wales	Zarnie Lwin	The changing landscapes of survivorship: A sociological study of cancer
Medical Oncology, Cancer Care Services, RBWH	Natasha Roberts	Poster Project: A pilot study to describe medical oncology patient perceptions of research
Medical Oncology, Cancer Care Services, RBWH	David Wyld	NET: Cancer on the margins: A qualitative study of neuroendocrine patients' experiences of living with rare tumours
Medical Oncology, Royal Prince Alfred and Concord Hospitals	Melissa Eastgate	i-Tool: Evaluation of a web-based tool for estimating and explaining Prognosis
University of Queensland	Zarnie Lwin	Women's Cancer Project: Understanding and improving social support amongst women with cancer: A qualitative study

Research Awards and Achievements

Recipient	Award	Event
Matthew Burge	2016 AGITG Innovation Fund	AGITG Annual Scientific Meeting 14-16 September 2016
Natasha Roberts	2016 ANZUP ASM Best of Nursing/Allied Health Poster Presentation	ANZUP Annual Scientific Meeting, July 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Patsy Yates , Kimberly Alexander, Christine Miaskowski, Raymond Chan , Alexandra McCarthy, Steven McPhail, David Wyld , Helen Skerman	Medical Oncology	A sequential multiple assignment randomised trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy	NHMRC APP1129532	\$178354.55	\$713,418.20 2017 - 2020
Alex Broom, Emma Kirby, Renata Kokanovic; Jonathan Adams; Zarnie Lwin ; David Wyld ; Eng-Siew Koh; Paul de Souza; Lisa Woodland	Medical Oncology	Cultural Biographies, Medical Knowledges: A sociological study	Australian Research Council Linkage Grant	\$250000.00	\$210,000 [ARC contribution] + [\$816,962 cash/in-kind partner contributions] 2016-2018
David Wyld	Medical Oncology	Evaluation of improvement in patient outcomes and assessment of patient satisfaction relating to their referral to the RBWH Neuroendocrine Multidisciplinary Service	Novartis Pharmaceuticals Australia Pty Ltd	\$20000.00	\$40,000 2015 - 2016
Benjamin Chua , Bryan Day, Stephen Rose, Paul Thomas , Rosalind Jeffree , Yi Chieh Lim, Po-Ling Inglis , Z Lwin , Jacqui Keller	Medical Oncology, Radiation Oncology	Using molecular-guided PET/ MRI imaging to target hypoxia in glioblastoma: A preclinical study to identify novel pathways and define molecular signatures associated with hypoxia and poor patient outcome	Herston Imaging Research Facility Seed Funding		\$66,498 Time frame not specified on grant
Matthew Burge , Paul Thomas , David Wyld Stephen Rose, Melissa Eastgate , Nick O'Rourke David Cavallucci , Richard Bryant	Medical Oncology	A study to look at a new way of detecting the spread of pancreas cancer.	Herston Imaging Research Facility Seed Funding		\$58,014 Time frame not specified on grant
Matthew Burge , Paul Thomas , David Wyld Stephen Rose, Melissa Eastgate , Nick O'Rourke David Cavallucci , Richard Bryant	Medical Oncology	A Pilot Study of CXCR-4 PET scanning in operable rectal cancer	Herston Imaging Research Facility Seed Funding		\$23,760 Time frame not specified on grant
Natasha Roberts	Medical Oncology	Patient Reported Outcomes in a Medical Oncology Setting	RBWH Post Graduate Scholarship 2016		\$50,000
Natasha Roberts	Medical Oncology		AGITG Travel Scholarship		\$250

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Beesley VL, Wockner L F, O'Rourke P, Janda M, Goldstein D, Gooden H, Merrett ND, O'Connell DL, Rowlands IJ, Wyld DK , Neale RE. Erratum to: risk factors for current and future unmet supportive care needs of people with pancreatic cancer. A longitudinal study. <i>Support Care Cancer</i> . 2016; 24 (8): 3601-3602.
Journal article	Beesley VL, Wockner LF, O'Rourke P, Janda M, Goldstein D, Gooden H, Merrett ND, O'Connell DL, Rowlands IJ, Wyld DK and Neale RE. Risk factors for current and future unmet supportive care needs of people with pancreatic cancer. A longitudinal study. <i>Support Care Cancer</i> . 2016; 24(8): 3589-99.
Journal article	Beesley VL, Janda M, Goldstein D, Gooden H, Merrett, ND, O'Connell DL, Rowlands IJ, Wyld, DK and Neale Re. A tsunami of unmet needs: pancreatic and ampullary cancer patients' supportive care needs and use of community and allied health services. <i>Psychooncologie</i> . 2016; 25(2): 150-7.
Journal article	Bellet M, Gray KP, Francis PA, Lang I, Ciruelos E, Lluch A, Climent MA, Catalan G, Avella A, Bohn U, Gonzalez-Martin A, Ferrer R, Catalan R, Azaro A, Rajasekaran A, Morales J, Vazquez J, Fleming GF, Price KN, Regan MM. Twelve month estrogen levels in premenopausal women with hormone-receptor positive breast cancer receiving triptorelin plus exemestane or tamoxifen in the suppression of ovarian function (SOFT). The Soft-Est Trial". <i>Journal of Clinical Oncology</i> . 2016; 34(14) : 1584-1593 (Nottage M)
Journal article	Bond CE, McKeone DM, Kalimutho M, Bettington ML, Pearson SA, Dumenil TD, Wockner LF, Burge M , Leggett BL, Whitehall VL. Rnf43 and Znf3 are commonly altered in serrated pathway colorectal tumorigenesis. <i>Oncotarget</i> . 2016.
Journal article	Broom A, Wong WKT, Kirby E, Sibbritt D, Karikios D, Harrup H, Lwin Z . A qualitative study of medical oncologists' experiences of their profession and workforce sustainability. <i>PLoS ONE</i> 30 Nov 2016 http://dx.doi.org/10.1371/journal.pone.0166302
Journal article	Brown T, Banks M, Hughes BGM , Lin C, Kenny L, Bauer. Comparison of nutritional and clinical outcomes in patients with head and neck cancer undergoing chemoradiotherapy utilising proactive versus reactive nutrition support approaches. <i>Journal of the Academy of Nutrition and Dietetics</i> , 2016. doi.org/10.1016/j.jand.2016.10.013
Journal article	Brown TE, Crombie J, Spurgin AL, Tripcony L, Keller J, Hughes BG , Dickie G, Kenny LM, Hodge RA. Improving guideline sensitivity and specificity for the identification of proactive gastrostomy placement in patients with head and neck Cancer. <i>Head Neck</i> . 2016;38 Suppl 1: E1163-71.
Journal article	Brown TE, Getliffe V, Banks MD, Hughes BG , Lin CY, Kenny, LM, Bauer JD. Validation of an updated evidence-based protocol for proactive gastrostomy tube insertion in patients with head and neck cancer. <i>Eur J Clin Nutr</i> . 2016; 70, (5): 574-81.
Journal article	Brown TE, Wittholz K, Way M, Banks MD, Hughes BG , Lin CY, Kenny LM, Bauer JD. Investigation of p16 status, chemotherapy regimen, and other nutrition markers for predicting gastrostomy in patients with head and neck cancer. <i>Head&Neck</i> . 2016; 10.1002/hed.24630
Journal article	Burge M , Whitehall V. Management of BRAF-mutant metastatic colorectal cancer. <i>Colorectal Cancer</i> . 2016; 5(4): 131-133.
Journal article	Burmeister EA, O'Connell DL, Jordan SJ, Goldstein D, Merrett N, Wyld DK , Beesley VL, Gooden HM, Janda M, and Neale RE. Factors associated with quality of care for patients with pancreatic cancer in Australia. <i>Med J Aust</i> . 2016; 205(10): 459-465.
Journal article	Burmeister EA, Waterhouse, Jordan SJ, O'Connell DL, Merrett ND, Goldstein D, Wyld D , Beesley V, Gooden H, Janda M, Neale R. Determinants of survival and attempted resection in patients with non-metastatic pancreatic cancer: An Australian population-Based study. <i>Pancreatology</i> . 2016; 16(5): 873-81.
Journal article	Burmeister EA, Jordan SJ, O'Connell DL, Beesley VL, Goldstein D, Gooden HM, Janda M, Merrett ND, Wyld D , Neale RE. Using a delphi process to determine optimal care for patients with pancreatic cancer. <i>Asia-Pacific Journal of Clinical Oncology</i> . 2016; 12(2):105
Journal article	Chapman S J, McKavanagh D, Burge M , McPherson I, Walpole E, Hollingworth SA. Effectiveness of bevacizumab and cetuximab in metastatic colorectal cancer across selected public hospitals in Queensland. <i>Asia Pac J Clin Oncol</i> . 2016.
Journal article	Chirgwin JH, Giobbie-Hurder A, Coates AS, Price KN, Ejlertsen B, Debléd M, Gelber RD, Goldhirsch A, Smith I, Rabaglio M, Forbes JF, Neven P, Lang I, Colleoni M, Thurlimann B. Treatment adherence and its impact on disease-free survival in the Breast International Group trial of tamoxifen and letrozole, alone and in sequence. <i>Journal of Clinical Oncology</i> . 2016; 34 (21): 2452-2459 (epub 23 May 2016). (Nottage M)
Journal article	Colleoni M, Sun Z, Price KN, Karlsson P, Forbes JF, Thurlimann B, Gianni L, Castiglione M, Gelber RD, Coates AS, Goldhirsch A. Annual hazard rates of recurrence for breast cancer during 24 years of follow-up: results from the International Breast Cancer Study Group Trials I to V. <i>Journal of Clinical Oncology</i> . 2016; 34 (9) : 927-935 (Nottage M/Wyld D)
Journal article	Courneya KS, J. L. Vardy, C. J. O'Callaghan, C. M. Friedenreich, K. L. Campbell, H. Prapavessis, J. J. Crawford, P. O'Brien, H. M. Dhillon, D. J. Jonker, N. S. Chua, S. Lupichuk, M. S. Sanatani, S. Gill, R. M. Meyer, S. Begbie, T. Bonaventura, M. E. Burge , J. Turner, D. Tu and C. M. Booth. "Effects of a Structured Exercise Program on Physical Activity and Fitness in Colon Cancer Survivors: One Year Feasibility Results from the Challenge Trial." <i>Cancer Epidemiol Biomarkers Prev</i> 25, no. 6 (2016): 969-77.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Davidson, A., A. S. Veillard, A. Tognela, M. M. Chan, B. G. Hughes , M. Boyer, K. Briscoe, S. Begbie, E. Abdi, C. Crombie, J. Long, A. Boyce, C. R. Lewis, S. Varma, A. Broad, N. Muljadi, S. Chinchin, D. Espinoza, X. Coskinas, N. Pavlakis, M. Millward and M. R. Stockler. "A Phase III Randomized Trial of Adding Topical Nitroglycerin to First-Line Chemotherapy for Advanced Nonsmall-Cell Lung Cancer: The Australasian Lung Cancer Trials Group Nitro Trial." <i>Ann Oncol</i> 26, no. 11 (2015): 2280-6.
Journal article	Forbes JF, Sestak I, Howell A, Bonanni B, Bundred N, Levy C, von Minckwitz G, Eiermann W, Neven P, Stierer M, Holcombe C, Coleman RE, Jones L, Ellis I, Cuzick J, on behalf of the IBIS-II investigators. Twelve-Month Estrogen Levels in Premenopausal Women With Hormone Receptor-Positive Breast Cancer Receiving Adjuvant Triptorelin Plus Exemestane or Tamoxifen in the Suppression of Ovarian Function Trial (SOFT): The SOFT-EST Substudy. Anastrozole versus tamoxifen for the prevention of locoregional and contralateral breast cancer in postmenopausal women with locally excised ductal carcinoma in situ (IBIS-II DCIS): a double-blind, randomised controlled trial. <i>The Lancet</i> . 2016; 387 (10021) : 866-873. (Nottage M)
Journal article	Friedlander M, Banerjee S, Mileskin L, Scott C, Shannon C, Goh J . Practical guidance on the use of olaparib capsules as maintenance therapy for women with BRCA mutations and platinum-sensitive recurrent ovarian cancer. <i>Asia-Pacific Journal of Clinical Oncology</i> . 2016; 12(4):323-331.
Journal article	Gibson A F, Broom A, Kirby E, Wyld DK , and Lwin Z . The social reception of women with cancer. <i>Qual Health Res</i> . 2016.
Journal article	Hammel P et al, Effect of Chemoradiotherapy vs Chemotherapy on Survival in Patients With Locally Advanced Pancreatic Cancer Controlled After 4 Months of Gemcitabine With or Without Erlotinib. The LAP07 Randomized Clinical Trial. <i>JAMA</i> . 2016;315(17):1844-1853. doi:10.1001/jama.2016.4324 (Burge M)
Journal article	Hansen AR, Hughes BG , Paul S, Steadman P, Sommerville S, Dickinson IC, Walpole ET, Thomson DB, Mar Fan HG, Joubert WL. Single institution retrospective review of perioperative chemotherapy in adult and adolescent patients with operable osteosarcoma. <i>Asia Pac J Clin Oncol</i> . 2016 Jun;12(2):e222-8. doi: 10.1111/ajco.12167.
Journal article	Ignatiadis M, Azim Jr. HA, Desmedt C, Veys I, Larsimont D, Salgado R, Lyng MB, Viale G, Leyland-Jones G, Giobbie-Hurder A, Kammler R, Dell'Orto P, Rothe F, Laios I, Ditzel HH, Regan MM, Piccart M, Michiels S, Sotiriou, C. The genomic grawe assay compared with Ki67 to determine risk of distant breast cancer Recurrence. <i>JAMA Oncol</i> . 2016;2(2):217-24. (Inglis P)
Journal article	Courneya KS, Vardy JL, O'Callaghan CJ, Friedenreich CM, Campbell KL, Prapavessis H, Crawford J, O'Brien P, Dhillon HM, Jonker DJ, Chua NS, Lupichuk S, Sanatani MS, Gill S, Meyer R, Begbie S, Bonaventura T, Burge ME, Turner J , Tu D, Booth CM. Effects of a structured exercise program on physical activity and fitness in colon cancer survivors: One year feasibility results from the CHALLENGE Trial. <i>Cancer Epidemiology, Biomarkers and Prevention</i> . 2016.
Journal article	Kirby E, Broom A, Good P, Bowden V, Lwin, Z . Experiences of interpreters in supporting the transition from oncology to palliative care: a qualitative study." <i>Asia Pac J Clin Oncol</i> . 2016.
Journal article	Lazar A, Bonetti AM, Cole BF, Yip WK, Gelber R. Identifying treatment effect heterogeneity in clinical trials using subpopulations of events: STEPP. <i>Clin Trials</i> . 2016; 13(2): 169-79. (Nottage M/Wyld D)
Journal article	Lee B, Wong H, Tacey M, Tie J, Wong R, Lee M, Nott L, Shapiro J, Jennens R, Turner N, Tran B, Ananda S, Yip D, Richardson G, Parente P, Lim L, Stefanou G, Burge M , Iddawela M, Power J, Gibbs P. The impact of bevacizumab in metastatic colorectal cancer with an intact primary tumor: Results from a large prospective cohort study. <i>Asia-Pacific Journal of Clinical Oncology</i> . 2016. doi:10.1111/ajco.12639
Journal article	Modi S, Tiang KW, Inglis P , Collins S. Adult Wilms' tumour: case report and review of literature. <i>Journal of Kidney Cancer and VHL</i> . 2016; 3(2):1-7
Journal article	Nottage M , Lin C, Hughes BGM , Kenny L, Smith D, Houston K, Francesconi A. Prospective study investigating the impact of definitive chemoradiation in locally and/or regionally advanced squamous cell carcinoma of the skin. <i>Head Neck</i> 2016. doi 10.1002/hed.24662
Journal article	Ou S.H, Ahn JS, De Petris L, Govindan R, Yang JC, Hughes BG , Lena H, Moro-Sibilot D, Bearz A, Ramirez SV, Mekhail T, Spira A, Bordogna W, Balas B, Morcos PN, Monnet A, Zeaiter A, Kim D. Alectinib in Crizotinib-Refractory ALK-Rearranged non-small-cell Lung Cancer: A Phase II Global Study. <i>J Clin Oncol</i> . 2016; 34(7): 661-8.
Journal article	Pagani O, Regan MM, Francis PA. Are SOFT and TEXT results practice changing and how? <i>The Breast</i> . 2016; 27 : 122-125. (Nottage M)
Journal article	Pavlakis N, et al, Regorafenib for the Treatment of Advanced Gastric Cancer (INTEGRATE): A Multinational Placebo-Controlled Phase II Trial. June 20, 2016, doi: 10.1200/JCO.2015.65.1901 (Burge M)
Journal article	Pharoah PD, Song H, Dicks E, Intermaggio MP, Harrington P, Baynes C, Alsop K, Bogdanova N, Cicek MS, Cunningham JM, Fridley BL, Gentry-Maharaj A, Hillemanns P, Lele S, Lester J, McGuire V, Moysich K, Poblete S, Sieh W, Sucheston-Campbell L, Widschwendter M, Whittemore AS, Dork T, Menon U, Odunsi K, Goode EL, Karlan BL, Bowtell DD, Gayther SA, Ramus SJ. Ppm1d mosaic truncating variants in ovarian cancer cases may be treatment-related somatic mutations. <i>J Natl Cancer Inst</i> . 2016; 108(3). (Goh J)
Journal article	Phillips KA, Regan MM, Ribl K, Francis PA, Puglisi F, Bellet M, Spazzapan S, Karlsson P, Budman DR, Zaman K, Abdi EA, Domchek SM, Feng Y, Price KN, Coates AS, Gelber RD, Maruff P, Boyle F, Forbes JF, Ahles T, Fleming GF, Bernhard J for the Co-SOFT Investigators. Adjuvant ovarian function suppression and cognitive function in women with breast cancer. <i>British Journal of Cancer</i> . 2016; 114 : 956-954, (Nottage M) .

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Pittman K, Antill YC, Goldrick A, Goh J , de Boer RH. Denosumab: Prevention and management of hypocalcemia, osteonecrosis of the jaw and atypical fracture. <i>Asia-Pacific Journal of Clinical Oncology</i>
Journal article	Price TJ, Thavaneswaran S, Burge M , Segelov E, Haller DG, Punt CJ, Arnold D, Karapetis CS, Tebbutt NC, Pavlakis N, Gibbs P, Shapiro JD. Update on optimal treatment for metastatic colorectal cancer from the Actg/Agitg expert meeting: Ecco 2015." <i>Expert Rev Anticancer Ther.</i> 2016; 16(5): 557-71.
Journal article	Pulford DJ, Harter P, Floquet A, Barrett C, Suh DH, Friedlander M, Arranz JA, Hasegawa K, Tada H, Vuylsteke P, Mirza MR, Donadello N, Scambia G, Johnson T, Cox C, Chan JK, Imhof M, Herzog TJ, Calvert P, Wimberger P, Berton-Rigaud D, Lim MC, Elser G, Xu CF, du Bois A. Communicating BRCA research results to patients enrolled in international clinical trials: lessons learnt from the AGO-OVAR 16 study. <i>BMC Medical Ethics</i> 2016; 17(1): 63. (Goh J)
Journal article	Regan MM, Francis PA, Pagani O, Fleming GF, Walley BA, Viale G, Colleoni M, Lang I, Gomez HL, Tondini C, Pinotti G, Price KN, Coates AS, Goldhirsch A, Gelber RD. Absolute benefit of adjuvant endocrine therapies for premenopausal women with hormone receptor positive, human epidermal growth factor receptor 2 negative early breast cancer: TEXT and SOFT trials. <i>Journal of Clinical Oncology.</i> 2016; 34 (19) : 2221-2231. (Nottage M)
Journal article	Ribi K, Luo W, Bernhard J, Francis PA, Burstein HJ, Ciruelos E, Bellet M, Pavesi L, Lluch A, Visini M, Parmar V, Tondini C, Kerbrat P, Perello A, Neven P, Torres R, Lombardi D, Puglisi F, Karlsson P, Ruhstaller T, Colleoni M, Coates AS, Goldhirsch A, Price KN, Gelber RD, Regan MM, Fleming GF. Adjuvant tamoxifen plus ovarian function suppression versus tamoxifen alone in premenopausal women with early breast cancer: patient-reported outcomes in the Suppression of Ovarian Function Trial. <i>Journal of Clinical Oncology.</i> 2016; 34 (14) : 1601-1610. (Nottage M)
Journal article	Schofield PE, Stockler MR, Zannino D, Tebbutt NC, Price TJ, Simes R, Wong N, Pavlakis N, Ransom D, Moylan E, Underhill C, Wyld D , Burns I, Ward R, Wilcken N, Jefford M. Hope, optimism and survival in a randomised trial of chemotherapy for metastatic colorectal cancer. <i>Support Care Cancer.</i> 2016 24(1): 401-8.
Journal article	Thaker DA , Douglas E, Blazak J, Xu W, Hughes B , Burge M , Steinke K, Wyld D . An analysis of incidental and symptomatic pulmonary embolism (Pe) in medical oncology patients. <i>Asia Pac J Clin Oncol</i> , 2016.
Journal article	Van hazel G, Et al: SIRFLOX: Randomized Phase III Trial Comparing First-Line mFOLFOX6 (Plus or Minus Bevacizumab) Versus mFOLFOX6 (Plus or Minus Bevacizumab) Plus Selective Internal Radiation Therapy in Patients With Metastatic Colorectal Cancer. <i>JCO</i> February 22, 2016 (Burge M)
Journal article	Waterhouse MA, Burmeister EA, O'Connell DL, Ballard EL, Jordan SJ, Merrett ND, Goldstein D, Wyld D , Janda M, Beesley VL, Payne ME, Gooden HM, Neale, RE. Determinants of outcomes following resection for pancreatic cancer—a population-based study. <i>J Gastrointest Surg.</i> 2016; 20(8): 1471-81.
Journal article	Xu W, Singh M, Yan H, Lwin Z , Eastgate M . Disseminated disease including intra-cardiac metastasis from intermediate trophoblastic tumor of unspecified subtype, presenting in pregnancy. <i>Gynecol Oncol Rep</i> 2016 16: 34-8.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Barbour A, O'Rourke N, Chan H, Chua YJ, Kench J, Hicks RJ, Samra JS, Pavlakis N, Haghghi KS, Yip S, Donoghoe M, Friend C, Burge ME , Fawcett J, Harris M, Aghmesheh M, Joubert WL, GebSKI V, Simes J, Goldstein D. Initial survival outcomes for the AGITG GAP study – a phase II study of perioperative nab-paclitaxel and gemcitabine for resectable pancreatic ductal adenocarcinoma (PDAC). <i>ASCO</i> 2016
Oral	Barlesi F, Dingemans A, Yang J, Ou S, Ahn J, Petris L, Hughes B , Lena H, Zeaiter A, Bordogna W, Golding S, Morcos P, Balas B, Kim D. Updated efficacy and safety results from a global phase II NP28673 study of alectinib in patients (pts) with previously treated ALK+ non-small cell lung cancer (NSCLC). <i>ESMO</i> 2016.
Poster	Bhatt M, Nocher S, Griffiths M, Lee K, Bartlett M, Wyld D , Goodman S, Fong W. Theranostics – RBWH experience. 4th Theranostics World Congress 2016, Melbourne Australia 7-9th November, 2016.
Poster	Blagden S, Gabra H, Hamilton A, Wong S, Michael A, Mileshkin L, Hall M, Goh J , Lisyanskaya A, DeSilvio M, Habr D, Gainer S, Gopalakrishna P, Meniawy T. Phase I/II Dose-escalation and Expansion Study of Afuresertib Plus Carboplatin and Paclitaxel in Recurrent Ovarian Cancer. <i>ASCO</i> 3-7 Jun 2016
Poster	Beesley V, Janda M, Burmeister E, Goldstein D, Merrett N, O'Connell D, Rowlands I, Wyld D , Young J, Neale R. Association Between Pancreatic Cancer Patients' Perception Of Care Coordination And Patient Outcomes. <i>MASCC/ISOO Annual Meeting, Adelaide</i> 2016
Poster	Chua B, Jefree L, Thomas P, Lwin Z . Real-world diagnostic performance of 18-fludeoxyglucose positron emission tomography (FDG-PET) and contrast-enhanced magnetic resonance imaging (MRI) in evaluation of glioma. <i>Society of Neurooncology, Phoenix, Arizona</i> 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Blake C, Lai R, Moroney L, Helios J, Hughes B , Chua B, Bauer J, Brown T. Nutrition Outcomes and Toxicities Following Helical-Intensity Modulated Radiotherapy (H-Imrt) in Patients with Head and Neck Cancer. COSA 2016
Oral	Brown T, Banks M, Hughes BGM , Lin C, Kenny LK, Bauer J. Early feeding via a prophylactic gastrostomy – preliminary findings from an RCT. ANZHNCs 2016.
Oral	Brown T, Banks M, Hughes BGM , Lin C, Kenny LK, Bauer J. Understanding initiation of nutrition support in patients with head and neck cancer and adherence to recommendations – a patient perspective. COSA 2016.
Oral	Brown T, Chan A, Dwyer K, Banks M, Hughes BGM , Lin C, Kenny L, Crombie J, Spurgin AL, Bauer J. Validation of a protocol to predict proactive gastrostomy tube placement in patients with head and neck cancer receiving Helical-Intensity Modulated Radiotherapy. ANZHNCs 2016.
Oral	Brown T, Dwyer K, Chan A, Banks M, Hughes BGM , Lin C, Kenny L, Bauer J. Revalidation of gastrostomy tube guidelines for high-risk patients undergoing chemoradiotherapy. ANZHNCs 2016.
Oral	Brown T, Wittholz K, Wockner L, Banks M, Hughes B , Lin C, Kenny L, Bauer J. Investigation of p16 status, chemotherapy regimen and other nutritional markers for predicting gastrostomy placement in patients with head and neck cancer. MASCC/ISOO Adelaide 2016.
Poster	Burge ME , Wong HL, Lee B, Tie J, Kosminder S et al. Impact of first-line bevacizumab therapy on the efficacy of subsequent anti-epidermal growth factor antibodies (anti-EGFR) in metastatic colorectal cancer (mCRC). ASCO Gastrointestinal Cancers Symposium 2016
Poster	Chan B, Sim H, Ravikumar A, Bailey D, Chan D, Lawrence B, McEwan A, Pavlakis N, Segelov E, Singh E, Roach P, Wyld D . 417P - Availability and Utility of Functional Imaging (FI) and Peptide Receptor Radionuclide Therapy (PRRT) in the CommNETS Collaboration (Australia, Canada and New Zealand). ESMO Asia 2016 Congress 17 December s 2016.
Poster	Chan BA, Sim H, Ravikumar A, Bailey D, Chan D, Lawrence B, McEwan S, Pavlakis N, Segelov E, Singh S, Roach P, Wyld D . CommNETS Survey of Current Local Practices Towards Peptide Receptor Radionuclide Therapy (PRRT) and Functional Imaging (FI) for Neuroendocrine Tumours (NETs). Australasian Gastrointestinal Trials Group (AGITG) Annual Scientific Meeting, Melbourne, 14-16 September 2016
Poster	Chavalertsakul N, Lwin Z , Hughes BGM . Pneumocystis pneumonia (PJP) in lung cancer patients. COSA 2016.
Oral	Cooney L, Brown T, Elvin-Walsh L, Kern E, Ahern S, Smith D, Kenny L, Hughes B , Porceddu S, Hickman I, Cartmill B. A comparison of prophylactic versus reactive tube feeding approaches on unplanned hospital admissions and weight loss in head and neck cancer (HNC) patients receiving radiotherapy +/- chemotherapy (C/RT). COSA 2016.
Invited speaker	Cubitt A . Why Do We Do Clinical Trials? - Cancer Preceptorship for Primary Health Care Providers - 23 July 2016
Invited speaker	Cubitt A . Assessing Capacity “How to Keep the Donkey’s Feet on the Ground” - Cancer Care Services Research Retreat - 10 November 2016.
Poster	Dung L, Thierry A, Hiroki H, You KT, Takyuki B, Burge M et al. P-274 Pembrolizumab for patients with previously treated, mismatch repair–deficient microsatellite instability–high advanced colorectal carcinoma. ESMO June 2016
Poster	Goodman SJ, Bhatt M, Wyld D . Comparison of the Functional Response and Tumour Sink Effect in Patients with High and Low Liver Dose on the Dosimetry Scan. 4th Thernostics World Congress 2016, Melbourne Australia 7-9th November, 2016
Poster	Goodman SJ, Smith JG, Burge ME , Wyld D , Ravi Kumar AS. Pretherapy Identification of Patients at Risk of Receiving a High Renal Dose Undergoing Peptide Receptor Radionuclide Therapy. European Neuroendocrine Tumour Society 12th Annual Conference, Barcelona Spain, March 2016
Poster	Gray S, Bhatt M, Lee K, Wyld D , Nocher S, Goodman S, Fong W, Joshi A, Burge M. Unusual Neuroendocrine tumour cases. 4th Thernostics World Congress 2016, Melbourne Australia 7-9th November, 2016
Oral	Grosso F, Steele N, Novello S, Nowak AK, Popat S, Greillier L, John T, Leigh N, Reck M, Taylor P, Pavlakis N, Sorensen JB, Planchard D, Ceresoli GL, Hughes BGM , Mazieres J, Socinski M, Mueller M, von Wangenheim U, Loembe AB, Morsli N, Barrueco J Scagliotti GV. Nintedanib plus pemetrexed/cisplatin in patients with MPM: Phase II findings from the placebo-controlled LUME-Meso trial. WCLC 2016
Poster	Gunawan, B, Button, E, Bates, T, Nasato, G, Wyld, D . Unplanned admissions to a medical oncology unit at a tertiary hospital - an analysis of emergency presentations. In: Asia-Pacific Journal of Clinical Oncology. COSA's 43 and ANZBCTG's 38 Annual Scientific Meetings. Partners for Progress in Breast Cancer Research and Care, Gold Coast, QLD Australia, 15-17 November 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Hughes BGM , McKeage M, Markman B, Hidalgo M, Millward M, Jameson M, Harris D, Stagg R, Kapoun A, Holmgren E, Dupont J, Kotasek D. A phase 1b study of the anti-cancer stem cell agent demcizumab (DEM), pemetrexed (PEM) & carboplatin (CARBO) in patients with 1st line non-squamous NSCLC. ALCC 2016.
Poster	Kalas TS, Wyld D . Optimizing adjuvant chemotherapy delivery in older women with breast cancer - a review. COSA's 43 and ANZBCTG's 38 Annual Scientific Meetings. Partners for Progress in Breast Cancer Research and Care, Gold Coast, QLD Australia. 15-17 November 2016
Poster	Kwan EM, Lee B, Wong H, Lee M, Wong R, Shapiro JD, Burge ME , Lipton LR, Kosmider S, Gibbs P. Use and impact of bevacizumab in patients undergoing liver resection for metastatic colorectal cancer in routine clinical practice. ASCO Gastrointestinal Cancers Symposium 2016
Poster	Khasraw M, McDonald KL, Rosenthal M, Lwin Z , Ashley DM, Wheeler H, Barnes E, Koh E, Foote MC, Buckland M, Swanson R, Hall M, Yip S, Oostendorp M, Simes J. VERTU - Veliparib, Radiotherapy (RT) and Temozolomide (TMZ) trial in Unmethylated MGMT Glioblastoma (GBM). Poster Presentation Trials in progress, ASCO Chicago 2016
Poster	Ladwa R , Xu W, Tani D, Williamson K, Wockner L, Lwin Z , Ritchie A, Steinke K, Hughes B . The significance of solitary pulmonary nodules in head & neck cancer. MOGA 2016.
Poster	Ladwa R An update of the tolerability and feasibility of newer adjuvant chemotherapy in older patients with breast cancer COSA/ANZBCTG Gold Coast, QLD Australia, 15-17 November 2016.
Poster	Ladwa R, Burge M, Wyld D . A single center experience of cardiac metastasis from neuroendocrine tumors (net). In: COSA's 43 and ANZBCTG's 38 Annual Scientific Meetings. Partners for Progress in Breast Cancer Research and Care, COSA/ANZBCTG Gold Coast, QLD Australia, 15-17 November 2016.
Poster	Ladwa R, Burge M, Wyld D . A Single Centres Experience of Cardiac Metastasis from Neuroendocrine Tumours (NET). European Neuroendocrine Tumour Society 12th Annual Conference, Barcelona Spain, March 2016
Oral	Ladwa R , Chern B, Sanmugarajah J, Wyld D . A prospective 2-year experience of a medical oncology advanced trainee in Queensland. In: COSA's 43 and ANZBCTG's 38 Annual Scientific Meetings. Partners for Progress in Breast Cancer Research and Care, COSA/ANZBCTG Gold Coast, QLD Australia. 15-17 November 2016.
Poster	Ladwa R, Lyle M, Wyld D, Burge M . The Difficulties of Response Assessment After Peptide Receptor Radionucleotide Therapy (PRRT): An Unusual Case of Symptomatic Pseudoprogression. European Neuroendocrine Tumour Society 12th Annual Conference, Barcelona Spain, March 2016
Poster	Lassman AB, van den Bent M, Gan HK, Reardon DA, Kumthekar P, Butowski N, Lwin Z , Mikkelsen T, Nabors LB, Papadopoulos KP, Penas-Prado M, Simes J, Gomez E, Lee H, Roberts-Rapp L, Xiong H, Bain E, Holen K, Merrell R. Efficacy of a Novel Antibody-Drug Conjugate (ADC), ABT-414, with Temozolomide (TMZ) in Recurrent Glioblastoma (rGBM) ESMO, Copenhagen 2016
Poster	Lee B, Wong H, Tie J, Wong R, Lee M, Nott L, Shapiro JD, Jennens R, Turner NH, Tran B, Ananda S, Yip D, Richardson GE, Parente P, Lim L, Stefanou G, Burge ME , Iddawela MY, Gibbs P. Impact of anti-VEGF therapy in metastatic colorectal cancer with an intact primary tumour. ASCO Gastrointestinal Cancers Symposium 2016
Poster	Lucas CJ, Goodman SJ, Smith JG, Burge ME, Wyld D , Ravi Kumar AS. Dosimetry to Estimate the Effect of Gelofusine® on the Renal Absorbed Dose of Lutetium 177-DOTA-octreotate. European Neuroendocrine Tumour Society 12th Annual Conference, Barcelona Spain, March 2016
Invited speaker	Lwin Z . Indian Society of Neuro-oncology Annual Scientific Meeting. Hyderabad, India. April 2016
Invited speaker	Lwin Z . Logistics of setting up Multidisciplinary Team Meetings/Tumour Boards for Cancer Care. Myanmar Cancer Symposium, Military Hospital (2), Yangon, Myanmar Oct 2016
Invited speaker	Lwin Z . The 2016 Medical Oncologist Workforce Project; Qualitative and Quantitative Studies. MOGA ASM Gold Coast Australia 2016
Invited Speaker	Lwin Z . "The role of interpreters in transition to palliative care" Royal North Shore Hospital, Sydney, Australia, Grand Rounds May 2016
Poster	McKeage M, Hughes B , Markman B, Hidalgo M, Millward M, Jameson M, Harris D, Stagg R, Kapoun A, Holmgren E, Dupont J, Kotasek D. A phase 1b study of the anti-cancer stem cell agent demcizumab (DEM), pemetrexed (PEM) & carboplatin (CARBO) in patients with 1st line non-squamous NSCLC. ASCO 2016.
Poster	Mileshkin L, Edmondson R, O'Connell R, Sjoquist K, Cannan D, Jyothirmayi R, Beale B, Bonaventura A, Goh J , Hall M, Clamp A, Green J, Lord R, Scurry J, Friedlander M on behalf of the PARAGON study group. A Phase 2 study of anastrozole in recurrent strogen(ER)/progesterone (PR) positive endometrial cancer: The PARAGON trial – ANZGOG 0903. ASCO 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Moroney L, Helios J, Ward E, Crombie J, Pelecanos A, Burns C, Spurgin AL, Blake C, Kenny L, Hughes BGM . Patterns of dysphagia and acute toxicities in patients with oropharyngeal carcinoma undergoing helical IMRT +/- concurrent chemotherapy. ANZHCNS 2016.
Poster	Peters G , Rasool M, Smith DD, Ladwa R , Hughes B , Lwin Z . Lean thinking: exploring the volume of overhead and supplementary tasks in cancer care (CC) in the oncology outpatient encounter (OOE) MOGA ASM, Gold Coast Australia 2016
Poster	Peters G , Rasool M, Smith D, Ladwa R , Wyld D , Eastgate M , Xu W, Kalokineros P, Tan J, Goh J , Nottage M , Inglis P , Burge M , Al-Saig H , Hughes B , Lwin Z . Lean thinking: exploring the volume of overhead and supplementary tasks (OST) in cancer care (CC) in the oncology outpatient encounter (OOE) in 2 tertiary centres. ASCO Chicago 2016.
Poster	Roberts N , Janda M, Alexander K, Wyld D . A systematic review and meta-analysis of patient reporting outcomes in clinical practice. In: COSA's 43rd and ANZBCTG's 38th Annual Scientific Meetings. Partners for Progress in Breast Cancer Research and Care, COSA/ANZBCTG, Gold Coast, QLD, Australia, 15-17 November, 2016.
Poster	Roberts NA , Ives AB , Cubitt A , Wyld D . Patient understanding of research in a medical oncology setting. ANZUP ASM, Brisbane, July 2016.
Poster	Roberts NA , Ives AB , Cubitt A , Wyld D . Patient understanding of research in a medical oncology setting, RBWH Research Symposium, Brisbane 2016.
Poster	Tognela A, Kiely BE, Espinoza D, Chan M, Davidson JA, Hughes BGM , Boyer M, Briscoe KP, Begbie S, Abdi E, Crombie C, Long J, Boyce A, Lewis CR, Varma S, Broad A, Muljadi N, Coskinas X, Pavlakis N, Millward M, Stockler MR. on behalf of the Australian Lung Cancer Trials Group (ALTG). Oncologists' estimates of expected survival time and scenarios for survival: accuracy in ALTG NITRO trial of 1st line chemotherapy for advanced non-small cell lung cancer (NSCLC). ASCO 2016.
Poster	Van den Bent M, Lassman A, Kumthekar P, Merrell R, Butowski N, Lwin Z , Mikkelsen T, Nabors L, Papadopoulos K et al. ACTR-07. Efficacy of a novel antibody-drug conjugated (ADC), ABT-414, as monotherapy in epidermal growth factor receptor (EGFR) amplified (EGFRamp), recurrent glioblastoma (rGBM). ASCO Annual Meeting Chicago 2016
Oral	Van den Bent M, Gan HK, Lassman AB, Kumthekar P, Merrell R, Butowski N, Lwin Z , Mikkelsen T, Nabors LB, Papadopoulos KP, Penas-Prado M, Simes J, Walbert T, Scott A, Gomez E, Lee H, Roberts-Rapp L, Xiong H, Bain E, Holen K, Maag D, Reardon DA. Efficacy of a novel antibody-drug conjugate (ADC), ABT-414, as monotherapy in epidermal growth factor receptor (EGFR) amplified (EGFRamp), recurrent glioblastoma (rGBM). Asian Society of Neurooncology and COGNO ASM Sydney Australia 2016
Poster	van den Bent M, Gan HK, Lassman AB, Kumthekar P, Merrell R, Butowski N, Lwin Z , Mikkelsen T, Nabors LB, Papadopoulos KP, Penas-Prado M, Simes J, Walbert T, Scott A, Gomez E, Lee H, Roberts-Rapp L, Xiong H, Bain E, Holen K, Maag D, Reardon DA. Efficacy of a novel antibody-drug conjugate (ADC), ABT-414, as monotherapy in epidermal growth factor receptor (EGFR) amplified (EGFRamp), recurrent glioblastoma (rGBM). European Society of Clinical Oncology ASM Copenhagen 2016
Oral	van den Bent M, Gan HK, Lassman AB, Kumthekar P, Merrell R, Butowski N, Lwin Z , Mikkelsen T, Nabors LB, Papadopoulos KP, Penas-Prado M, Simes J, Walbert T, Scott A, Gomez E, Lee H, Roberts-Rapp L, Xiong H, Bain E, Holen K, Maag D, Reardon DA. Efficacy of a novel antibody-drug conjugate (ADC), ABT-414, as monotherapy in epidermal growth factor receptor (EGFR) amplified (EGFRamp), recurrent glioblastoma (rGBM) Society of Neurooncology ASM, November 17-20, Scottsdale, AZ 2016
Poster	van Haeringen B, Burge M , Wyld D . Prognostic and Predictive Clinical, Pathological, and Molecular Biomarkers in Metastatic Colorectal Cancer - A Review. Australasian Gastrointestinal Trials Group (AGITG) Annual Scientific Meeting, Melbourne, Australia, 14-16 September 2016.
Oral	Vardy J, Kay M, Turner J , Gunningham K, Courneya K, Callaghan C, Meyer R, Begbie S, Bonaventura A, Burge M , Booth C, Dhillon H. Effects of a structured exercise program on physical activity and fitness in colon cancer survivors: One year feasibility results from the CHALLENGE trial and study update. COSA/ANZBCTG, Gold Coast, QLD, Australia, 15-17 November, 2016
Poster	Wann A, Tully P, Barnes L, Lwin Z , Jeffree L, Drummond K, Gan H, Khasraw M. Outcomes of second surgery for recurrent glioblastoma multiforme: a retrospective case control study. Society of Neurooncology ASM, Phoenix, Arizona 2016
Invited speaker	Wyld D . Advanced neuroendocrine tumours - Systemic therapies. First Annual North Queensland Neuroendocrine Tumour Meeting, Townsville, 17 June 2016.
Invited speaker	Wyld D . Managing Neuroendocrine Tumours (NETs) in 2016 - What's new? ESA/SRB/ANZBMS Joint meeting, Gold Coast 21-24 August 2016
Invited speaker	Wyld D . Neuroendocrine tumour management. Medical Oncology Group of Australia 2016 Annual Scientific Meeting (ASM), Gold Coast 3-5 August 2016.
Invited speaker	Wyld D . Why is My patient in a clinical trial? RBWH GP Education day. 23 July 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	D Wyld, S Plage, A Broom, M Burge, Z Lwin, A Cubbitt. Cancer on the margins: A qualitative study of neuroendocrine patients' experiences of living with rare tumours, European Neuroendocrine Tumour Society ASM, Barcelona 2016
Poster	Wyld D, Plage S, Burge M, Broom A, Lwin Z, McDade H, Cubitt A. How Long Is the Piece of String? – How Patients Negotiate the Uncertainties of a NET Diagnosis. European Neuroendocrine Tumour Society 12th Annual Conference, Barcelona Spain, March 2016
Poster	Xu W, Ladwa R, Tani D, Wockener L, Williamson K, Lwin Z, Ritchie A, Steinke K, Hughes B The significance of pulmonary nodules in head and neck cancer, ALTG/ALCC, Melbourne, Australia 2016

Other communications and outputs

Conference Abstracts

Tie J, Wang Y, Springer S, Kinde I, Wong H, Kosmider S, Tran B, Christie M, Thomson BN, Wong R, Burge ME, Shannon J, Kotasek D, Field KM, Strausberg R, Diaz LA, Papadopoulos N, Kinzler KW, Vogelstein B, Gibbs P. Serial circulating tumor DNA (ctDNA) and recurrence risk in patients (pts) with resectable colorectal liver metastasis (CLM). J Clin Oncol 34, 2016 (suppl; abstr e15131).

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Medical Oncology	45	0	22	42



Nursing Professorial Precinct (Cancer)

Aims of research group

The Cancer Nursing Professorial Precinct is a strategic collaboration between nurses in Cancer Care Services, Royal Brisbane and Women's Hospital (RBWH) and academics in the School of Nursing, Queensland University of Technology (QUT). The aim of the Precinct is to build capacity for embedding research and innovation into day-to-day clinical practice, and develop a world-class academic comprehensive cancer centre that improves patient outcomes. The Precinct is creating a thriving culture of research that delivers continuous service improvement and evidence-based care.

Clinical benefits of research

Key areas of the Precinct's research programme include service delivery improvement, wound management, vascular access device management, and prevention of blood stream infections, managing treatment toxicities, survivorship care, and palliative care. In 2016, the Precinct conducted research or quality improvement projects that were driven by the needs of the service line including emergency care of cancer patients, and developing a registry to track complications of central venous access devices. A strength of the Precinct lies in the number of high-quality trials conducted investigating best practice management of vascular access devices. All research conducted in the Precinct is patient-centred and seeks to improve the care of patients in clinical practice. The broad body of work conducted will lead to improved outcomes for people living with and beyond treatment for cancer through personalised healthcare interventions and health service innovation at a local and international level. Locally, the Evidence Based Practice program enables excellence in delivery of nursing care in the clinical areas. The international impact of the work conducted in the Precinct is demonstrated by the number of publications and presentations.

Grants / awards received in 2016

In 2016, research was conducted in the Precinct that was funded by a wide range of sources including the National Health and Medical Research Council, the RBWH Foundation, professional bodies (such as the Cancer Nursing Society of Australia), academic institutions, and industry partners. Cancer Care Services has a strong culture of nurses pursuing post-graduate study and research higher degrees. In 2016, several nurses continued such studies and were awarded competitive scholarships. Other highlights include Professor Raymond Chan being awarded the prestigious Young Tall Poppy Award, and several cancer nurses being part of the RBWH Nursing Research Team that received a Highly Commended award for Improving Patient Outcomes in Critical Care in the inaugural Metro North Hospital and Health Service Research Excellence Awards 2016. A key achievement in 2016 was the appointment of Professor Raymond Chan (Professor of Nursing, Metro North Hospital and Health Services and QUT), who's work primarily focuses on care of people with cancer.

Research collaborations

A key strength of the Cancer Nursing Professorial Precinct lies in the team's ability to collaborate widely. In 2016, RBWH cancer nurses worked with academic institutions including QUT, Griffith University, University of Southern Queensland, University of Queensland, and Bond University. Collaborations also occurred with the Princess Alexandra Hospital and with researchers in USA, China, Brazil and Singapore. These collaborations continue to enhance the quality and impact of the research conducted in Cancer Care Services at the RBWH.

Supervised Post-graduate Research Students

Name (RBWH in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Elise Button	PhD, QUT (2014-2017)	Identifying clinical indicators that signal a person with a haematological malignancy is at risk of deteriorating and dying	Patsy Yates, Raymond Chan, Shirley Chambers, Jason Butler
Sarah Northfield	Master of Applied Science (Research), QUT (PT: 2014-2017)	Identifying factors that influence specialist palliative care referrals for hospitalised patients with advanced cancer	Patsy Yates, Raymond Chan, John Rosenberg
Jenni Leutenegger	Master of Applied Science (Research), QUT (PT: 2016-2019)	Training models of tele-oncology in nursing	Patsy Yates, Raymond Chan
Rae Blades	Master of Applied Science (Research), QUT (PT: 2016-2019)	A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury in head and neck cancer patients.	Patsy Yates, Raymond Chan, Steven McPhail
Therese Hayes	Master of Applied Science (Research), QUT (PT: 2016-2019)	Unmet care needs in elderly patients with a haematological malignancy	Raymond Chan, Patsy Yates
Justine Leach	Master of Applied Science (Research), QUT (PT: 2016-2019)	Nurse-led Clinics in Cancer Care Services	Raymond Chan, Patsy Yates
Alison Bowers	PhD, QUT (FT: 2016-2019)	Models of care and care needs for Queensland Children Hospice	Patsy Yates, Raymond Chan
Leanne Stone	PhD, QUT (PT: 2014-2019)	Comparing the nature of nursing practice in Australian Magnet and non-Magnet hospitals	Fiona Coyer, Raymond Chan, Alexandra McCarthy
Hanan Al Yami	PhD, UQ (FT: 2016-2018)	Attributes of Quality End-of-Life Care for Advanced Cancer Patients in Critical Care Units in Saudi Arabia	Karen New, Judith McMurray, Raymond Chan

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Raymond Chan	NHMRC Health Professional Research Fellowship	Development and evaluation of a tailored fatigue self-management behavioural intervention for patients with advanced cancer	Queensland University of Technology (2014-2017)
Nicole Gavin	Visiting Fellow	School of Nursing	Queensland University of Technology (2015- current)

Current RBWH Research Group / Department Led Research Activity

RBWH Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Nicole Gavin	Nicole Gavin, Gillian Nasato, Nicole Marsh, Emily Larsen, Sarah Northfield, Glen Kennedy, David Wyld, Michale Smith, Krispin Hajkowicz, Trent Atkinson, Barbara Hewer, Fiona Coyer, Alison Alexander, Patsy Yates, Peter Mollee	Central Venous Access Device Registry
Nicole Gavin	Claire Rickard, David MacMillan, Samantha Keogh	The saFety of pArenteral nutrition regarding miCrobial growth and vascular catheTer-related infection (The FACT Study)

RBWH Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Julie Flynn	Claire Rickard, Samantha Keogh, Li Zhang	Decontamination of central venous catheter needless connectors.
Sarah Northfield	Patsy Yates, Raymond Chan, John Rosenberg	Identifying factors that influence specialist palliative care referrals for hospitalised patients with advanced cancer
Elise Button	Gillian Nasato, David Wyld, Patsy Yates, Eileen Fennelly, Jenni Leutenegger, Rae Blades, Jadwiga Chabrowska, Michael Smith, Sarah Northfield, Nicole Gavin	RBWH Cancer Care Services model of care: working to reduce avoidable emergency presentations and hospitalisations
Elise Button	Patsy Yates, Raymond Chan, Shirley Connell, Jason Butler	Clinical indicators that identify risk of deteriorating and dying in people with a haematological malignancy
Raymond Chan	Patsy Yates, Jane Turner, Brett Hughes	Development and evaluation of a tailored fatigue self-management behavioural intervention for patients with advanced cancer.
Raymond Chan	Louisa Gordon, Adrienne Hudson, Natalie Bradford, Aaron Conway, Patsy Yates , Cherie Franks, Robyn Henderson, Richard Lakeman, Trisha Johnson, Tim Moffitt	Queensland Nurse Navigator Program Evaluation Pilot Study
Raymond Chan	Alex Molassiotis, Patsy Yates	Survivorship care for patients with cancer after TrEatment completion in the Asia-Pacific Region: An international service-mapping study (The STEP Study)
Raymond Chan	Natalie Bradford, Patsy Yates , Ann Boner, Wolf Marx, Clint Douglas	Nurse-led models of care where the nurse takes a primary care role: a systematic review
Raymond Chan	Glen Kennedy, Patsy Yates , Jane Turner, Elise Odell , Anthony Smith	A Multi-centre Randomised Controlled Trial of a Nurse-led Survivorship Intervention for EmpoweriNG pAtients with HodGkin's and Non-Hodgkin's Lymphoma after trEatment: (The ENGAGE Trial)
Jenni Leutenegger	Patsy Yates, Raymond Chan	Training models of tele-oncology in nursing
Rae Blades	Patsy Yates, Raymond Chan, Steven McPhail	A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury in head and neck cancer patients
Therese Hayes	Raymond Chan, Patsy Yates	Unmet care needs in elderly patients with a haematological malignancy
Justine Leach	Raymond Chan, Patsy Yates	Nurse-led Clinics in Cancer Care Services
Sue Patterson (Mental Health)	Raymond Chan, David Wyld	Optimising recruitment to randomised controlled trials in mental health and cancer care: comparative case studies
Jane Turner (Psychology)	Patsy Yates, Liz Kenny, Brett Hughes, Raymond Chan	Improving quality of life in high-risk cancer populations: a randomised trial of a structured intervention for head and neck cancer survivors
Kaye Petherick, Judith McLean, Lowanna Dunn, Deborah Anderson, Cynthia Cliff, Marisha McAuliffe (QUT)	Alison Alexander, Gillian Nasato, Michael Smith, Ian Drake, Jodie Stewart, Glen Kennedy (Cancer Care Services)	Cancer Care Information Portal for Cancer Patients in Brisbane's Metro North Area
Nahid Choudhury (Griffith University)	Raymond Chan, Nicole Gavin (Cancer Care Services)	Emergence of Chlorhexidine Tolerance in Bacteria associated with Catheter Related Infections.
Claire Rickard, Peter Mollee, Geoffrey Playford, Li Zhang, Sam Keogh, Andrew Hallahan, Evan Alexandrou (Griffith University)	Joan Webster, Raymond Chan, Nicole Gavin (Cancer Care Services)	Peripherally InSerted CEntral catheter dressing and Securement in cancer patients: the PISCES Trial. Protocol for a 2x2 factorial, superiority randomised controlled trial
Bonnie Clough, Sonj March, Leanne Casey, Rachel Phillips R, Et Michael Ireland. (University of Southern Queensland and Ipswich Hospital)	Raymond Chan (Cancer Care Services)	Psychosocial Interventions for Managing Occupational Stress and Burnout among Medical Doctors: A Systematic Review
Alexandre Chan (National University of Singapore)	Raymond Chan (Cancer Care Services)	A culturally adapted, multidisciplinary psychoeducation program for early-stage breast cancer survivors in Asia: A randomized, controlled trial

RBWH Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Elaine Barros Ferreira, Christiane Inocência Vasques, Rafael Gadia, Eliete Neves Silva Guerra, Luis André Mezzomo, Graziela De Luca Canto, Paula Elaine Diniz dos Reis (University of BrasíliaBrasíliaBrazil)	Raymond Chan (Cancer Care Services)	Topical interventions to prevent acute radiation dermatitis in head and neck cancer: a systematic review and meta-analysis
Natalie Bradford, Rachel Edwards (Children's Health Queensland)	Raymond Chan (Cancer Care Services)	Heparin versus 0.9% sodium chloride intermittent flushes for CVC in children and infants: a systematic review and meta-analysis
Tewodros Eyob, Terence Ng, Alexandre Chan (National University of Singapore)	Raymond Chan (Cancer Care Services)	Impact of chemotherapy on cancer-related fatigue and cytokines in 1312 patients: A systematic review of quantitative studies
Laisa Teleni, Alexandre Chan, Liz Isenring, Ian Vela, Warrick Inder, Debra Anderson, Alexandra McCarthy. (Bond University, National University of Singapore, and PA Hospital)	Raymond Chan (Cancer Care Services)	Dietary and exercise interventions on the quality of life, menopausal-like symptoms and metabolic risk factors in men undergoing androgen deprivation therapy for prostate cancer: A systematic review of quantitative studies
Jessica Scaife, Alexandra McCarthy, Leanne Stone (PA Hospital)	Nicole Gavin, Raymond Chan, Selena Hughes (Cancer Care Services)	Critical Appraisal of clinical guidelines for the management of neutropenic fever in patients with cancer
Carla Thamm, Alexandra McCarthy, Leanne Stone (PA Hospital)	Raymond Chan, Selena Hughes (Cancer Care Services)	Specialist nurse-led Triage and Assessment at emergency department to improve patient outcomes and reduce wait time
Jane Campbell, Alexandra McCarthy, Leanne Stone (PA Hospital)	Selena Hughes, Raymond Chan (Cancer Care Services)	Opioid and sedatives during bone-marrow aspiration

Research Awards and Achievements

Recipient	Award	Event
Raymond Chan	Young Tall Poppy Science Award	Australian Institute of Policy and Science
Raymond Chan	Best Abstract Presentation	Cancer Care Research Retreat, Cancer Care Services, RBWH
Joan Webster and RBWH Nursing Research Team (including Nicole Gavin, Emily Larsen, Julie Flynn, Claire Rickard, Samantha Keogh).	Highly commended - Improving Patient Outcomes in Critical Care	Metro North Hospital and Health Service Research Excellence Awards 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Julie Flynn	Alliance for Vascular Access Teaching and Research Group	Decontamination of central venous catheter needleless connectors.	Cancer Nurses Society of Australia Research Grant	\$5,500	\$5,500 (2016-2017)
Julie Flynn	Alliance for Vascular Access Teaching and Research Group	Decontamination of central venous catheter needleless connectors.	Royal Brisbane and Women's Hospital Foundation	\$17,000	\$17,000 (2016)
Julie Flynn	Alliance for Vascular Access Teaching and Research Group	Decontamination of central venous catheter needleless connectors.	Australian Postgraduate Award, Griffith University	\$26,000	\$78,000 (2015-2017)
Julie Flynn	Alliance for Vascular Access Teaching and Research Group	Decontamination of central venous catheter needleless connectors.	Doctor of Philosophy Centurion Top-Up Scholarship, School of Nursing and Midwifery, Griffith University	\$5,000	\$15,000 (2015-2017)
Nicole Gavin	Alliance for Vascular Access Teaching and Research Group	The saFety of pArenteral nutrition regarding miCrobial growth and vascular catheTer-related infection (The FACT Study)	Royal Brisbane & Women's Hospital Post Graduate Scholarship 2015	\$24,000	\$24,000 (2015)
Nicole Gavin	Alliance for Vascular Access Teaching and Research Group	The saFety of pArenteral nutrition regarding miCrobial growth and vascular catheTer-related infection (The FACT Study)	National Health and Medical Research Council Centre for Research Excellence in Nursing PhD Scholarship	\$32,000	\$96,000 (2012 – 2015)
Elise Button	Cancer Nursing Professorial Precinct	Clinical indicators that identify risk of deteriorating and dying in people with a haematological malignancy	Royal Brisbane & Women's Hospital Post Graduate Scholarship	\$25,000	\$25,000 (2016)
Elise Button	Cancer Nursing Professorial Precinct	Clinical indicators that identify risk of deteriorating and dying in people with a haematological malignancy	Queensland University of Technology, Centre for Research Excellence in End of Life PhD Scholarship	\$35,000	\$105,000 (2014-2017)
Amanda Ullman, Patricia Kleidon, Sarah Northfield, Nicole Gavin, Claire Rickard	Alliance for Vascular Access Teaching and Research Group	Peripherally Inserted Central Catheter Outcomes Polyurethane versus Endexo (PIC COMPARE) Pilot Trial.	Unrestricted Research Grant 2016 - AngioDynamics	\$US62,100	\$US62,100 (2016)
Kylie Ash, Leisa Brown-West, Sarah Northfield, Elizabeth Coyne, Munton K, Miles C.	Cancer Nurses Society of Australia (CNSA) Education Standing Committee	Update of the CNSA position statements on the minimum safety and education requirements for nurse administration of antineoplastic drugs.	Cancer Nurses Society of Australia Special Project Grant.	\$7,500	\$7,500 (2016)
Raymond Chan	Cancer Nursing Professorial Precinct	Development and evaluation of a tailored fatigue self-management behavioural intervention for patients with advanced cancer	National Health and Medical Research Council Fellowship	\$38,824	\$155,298 (2014-2017)
Jane Turner, Patsy Yates, Liz Kenny, Louisa Gordon, Bryan Burmeister, Damien Thomson, Brett Hughes, Alexandra McCarthy, A., Christopher Perry, Raymond Chan.	Cancer Nursing Professorial Precinct	Improving quality of life in high-risk cancer populations: a randomised trial of a structured intervention for head and neck cancer survivors	National Health and Medical Research Council Project Grant	\$119,019	\$476,074 (2013-2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Claire Rickard, Joan Webster, Raymond Chan, Peter Mollee, Geoffrey Playford, Li Zhang, Sam Keogh, Andrew Hallahan, Evan Alexandrou (AI: Nicole Gavin)	Alliance for Vascular Access Teaching and Research Group	Peripherally InSerted Central catheter Securement: the PISCES Trial	National Health and Medical Research Council Project Grant	\$220,343	\$1,101,717 (2016-2020)
Glen Kennedy, Raymond Chan, Patsy Yates, Jane Turner, Elise Odell, Anthony Smith.	Cancer Nursing Professorial Precinct	A Multi-centre Randomised Controlled Trial of a Nurse-led Survivorship Intervention for EmpoweriNG pAtients with HodGkin's and Non-Hodgkin's Lymphoma after trEatment: (The ENGAGE Trial)	Royal Brisbane and Women's Hospital Foundation	\$20,000	\$ 40,000
Raymond Chan, Rae Blades, Patsy Yates, Steven McPhail, Grahame Dickie, David Wyld, Steven Sylvander, Steven Crowe, Elise Button, Christopher Walsh, Jacqui Keller, Lee Jones	Cancer Nursing Professorial Precinct	A non-blinded, randomised, controlled, superiority trial of StrataXRT® versus 10% Glycerine (Sorbolene) cream for prophylaxis and management of radiation dermatitis in head and neck cancer patients receiving radical radiotherapy with or without concurrent systemic therapy	Stratpharma	\$56,000	\$112,000



Radiation Oncology

The theme of inter-disciplinary collaboration and technology advancing research continued for the department of radiation oncology in 2016. As our department moved another year on from decentralising provision of clinical care for our provincial centres, we focus on equipping ourselves as the tertiary/quaternary referral hub while still providing outreach visits to Central Queensland, Redcliffe and Caboolture areas.

While physics and radiation therapy lead the investigator-initiated technical studies, medical staff has continued their collaborations with national and international trial groups ventures. For example, Tran-Tasman Radiation Oncology Group, Australian Lung Trial Group, EORTC. The year has been dominated by research in trials in various areas of stereotactic ablative radiotherapy and cutting edge imaging research within the Herston Imaging Research Facility.

While collaborating research amongst the 3 core disciplines of Radiation Oncology, combined trials with chemotherapy and immunotherapy are also thriving. With ongoing imaging research collaborations with the Sydney South West Area Hospital Service (SSWAHS) and collaborations with other centres and universities in Australia and overseas and we have had a number of successful publications and presentations.

The aim and focus of the Radiation Oncology Research group is to promote, support and drive innovation, promote quality initiatives and ensure quality improvement projects deliver evidence-based practice, to ensure safe treatment delivery. With new and emerging technologies rapidly being assimilated into daily practice, the focus of research outcomes is to deliver precision radiotherapy in a safe, efficient and cost-effective manner.

With the recent implementation of Deep Inspiration Breath Hold (DIBH), Stereotactic Body Radiation Therapy (SBRT), Stereotactic Ablative Body Radiotherapy (SABR), and soon to be released Catalyst Body Surface Scanning system, clinical benefits for patient outcomes are multi-fold; including more targeted treatment delivery, faster treatment times and effective sparing of critical structures.

State-wide Radiation Therapist Research Fellow, Catriona Hargrave has been an invaluable resource in supporting collaborative research projects and supporting quality improvement projects locally.

Supervised Post-graduate Research Students

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Andre Asena	PhD, QUT (2013-2017)	Dose distributions in the vicinity of high-density materials in radiotherapy	Scott Crowe , Jamie Trapp, Tanya Kairn
Diana Binny	PhD, QUT (2015-2021)	Optimizing patient plan deliveries by characterizing treatment planning systems in radiotherapy	Scott Crowe , Jamie Trapp, Tanya Kairn
Rae Blades	Masters Applied Science (Research), QUT (2016-2019)	A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury (RISI) in head and neck cancer patients.	Professor Patsy Yates, Professor Raymond Chan , Assoc Professor Steven McPhail.
Orrie Dancewicz	PhD, QUT (2014-2018)	Development and Verification of 3 & 4 Dimensional Radiation Dosimetry in Radiotherapy	Scott Crowe , Jamie Trapp, Timothy Markwell
Dr Timothy Liu	MPhil	Oral Squamous Cell Carcinoma with intermediate risk factors	Dr Martin Batstone, Dr Benjamin Chua
Johnny Morales	PhD, QUT (2011-2017)	Independent Monte Carlo analysis for stereotactic radiosurgery treatments	Scott Crowe , Jamie Trapp
Shamirah Nabankema	Masters, QUT (2016)	Wearable in-vivo dosimetry for total body irradiation and total skin electron irradiation	Scott Crowe , Diana Binny , Steven Sylvander
Anthony Orth	Masters, QUT (2016)	Total skin electron therapy treatment techniques	Scott Crowe , Phil Back , Steven Sylvander
Samuel Peet	Masters, QUT (2015-2016)	Estimating dose to cardiac pacemakers and cardioverter-	Scott Crowe , Phil Back , Tanya Kairn

Name	Current Studies University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Samuel Peet	PhD, QUT (2016-2020)	Out-of-field dose in contemporary radiation therapy	Scott Crowe , Jamie Trapp, Tanya Kairn
Zac Pross	PhD, QUT (2016-2020)	Monte Carlo simulation of radiological properties of Fricotan moulding material for brachytherapy	Scott Crowe, Craig Lancaster, Sanna Nilsson
Shaun Smith	Masters, QUT (2015-2016)	Development of three-dimensional dosimetry for radiotherapy	Scott Crowe , Jamie Trapp, Kye-Simeon Masters
Emma Spelleken	Masters, QUT (2016)	Evaluating published film dosimetry methods	Scott Crowe , Bess Sutherland, Tanya Kairn
Timothy Tang	Masters, QUT (2016)	Evaluating patient specific pre-treatment QA practices	Scott Crowe, Alexander Livingstone, Darren Cassidy
Sheldon Uprichard	Masters, QUT (2016-2017)	Acuros XB dose calculations for lung SABR dose treatments	Nigel Middlebrook, Scott Crowe, Kirby Francis
Yongqian Yin	Masters, QUT (2016-2017)	Investigation of interplay in IMRT treatments for breast cancer	Scott Crowe, Steven Sylvander , Tanya Kairn
Somayah Zolfaghari	Masters, QUT (2016)	Stereotactic radiosurgery for multiple brain metastases: a dose-volume study	Scott Crowe , Tanya Kairn, Mark West

Current RBWH Research Group / Department Led Research Activity

Name	Type of Fellowship	Research Program	University (years)
Dr Philip Chan		Coordinator Radiation Oncology Research	
Scott Crowe, PhD	Adjunct Associate Professor	School of Chemistry, Physics and Mechanical Engineering	QUT (2015-current)
Rob McDowall		Radiation Oncology / Radiation Therapy	
Michelle Ralston		Radiation Oncology / Radiation Therapy	
Lee Tripcony		Radiation Oncology / Statistics	
Jacqui Keller		Radiation Oncology	
Jennifer Edmunds		Radiation Oncology	
Trang Le		Radiation Oncology	
Charmaine Micklewright		Radiation Oncology	

Current RBWH Research Group / Department Led Research Activity

RBWH Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Christopher Ahern	Jemma Blyth Christopher Walsh Catriona Hargrave	Assessment of breast inter-fraction variation using daily MVCT imaging:
Diana Binny, Craig Lancaster	Sanna Nilsson Scott Crowe Phil Back Zac Pross (QUT)	Improving treatment planning and dose calculations in brachytherapy
Rae Blades Raymond Chan		A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury (RISI) in head and neck cancer patients.
Jemma Blyth Jemma Devereaux Michelle Grogan Sanna Nilsson,	Alica Grigg	Deep inspiration breath hold for breast radiotherapy

RBWH Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Kurt Burrows Jemma Blyth Martin Seng	Edward Fox	Patient Information Kiosk and iPad project
Josephine Cannon	William McDowall Ben Chua Craig Lancaster Catriona Hargrave	A comparison of different 4DCT reconstructions used for treatment planning and IGRT for lung Stereotactic Ablative Body Radiotherapy (SABR)
Dr Philip Chan	Dr Paul Thomas Dr Robyn Cheuk Dr Michelle Grogan Dr Graeme Dickie	Prognostic Value of Assessing Hypoxia in Tumours Using 18FMISO PET During a Course of Radiation Therapy – Proof of Concept Study
Scott Crowe	Rachael Wilks Steven Sylvander Tanya Kairn (Genesis Cancer Care), Jamie Trapp	Evaluating patient specific quality assurance practices
Scott Crowe, Samuel Peet	Kirby Francis Somayeh Zolfaghari Emma Spelleken Tanya Kairn Johnny Morales	Improving practices surrounding the use of dosimetric film in radiation therapy
Scott Crowe Steven Sylvander	Diana Binny Shamirah Nabankema Anthony Orth	Dosimetry of total skin electron therapy treatments for mycosis fungoides
Dr Maciej Debowski	Dr Catherine Bettington	MRI Imaging after RT – best time to scan post RT to maximise resource usage
Dr Maciej Debowski	Adj Prof Liz Kenny	Eye speculum case study
Dr Graeme Dickie Dr Paul Thomas	Dr Olivia Bennett Dr Lesli Kudge	PSMA PET – Impact of PSMA PET on radiotherapy planning in high risk prostate cancer
Dr Lindy Jeffree	Dr Michael Fay Jennifer Martin Dr Paul Thomas Stephen Rose Nicholas Dowson	Evaluation of the role of valproate in the treatment of high grade glioma
Craig Lancaster Kate Stewart	Gregory Rattray William McDowall Catriona Hargrave	Deformable image registration using the MIM Software
Alexander Livingstone	Darren Cassidy Kirby Francis	Developing a Monte Carlo quality assurance system for radiation therapy
Jenna Luscombe	Jemma Blyth Jessica Bodnar Imelda Calic Catriona Hargrave	Retrospective Evaluation of the impact of variable bladder filling on target volume for patients with Gynaecological cancer treated with VMAT
Calum Rae	Jemma Blyth Dr. Michelle Grogan Allison Dry Catriona Hargrave	Evaluation of Breast Seroma Changes During Radiation Therapy
Carly Russell	Nicholas Golusin Kurt Burrows Catriona Hargrave	Retrospective Evaluation of setup errors for Stereotactic Brain RT

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Jamie Trapp (QUT)	Scott Crowe (CCS)	Development of three-dimensional gel dosimetry solutions for radiation therapy

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Jamie Trapp (QUT)	Scott Crowe (CCS)	Investigation of issues surrounding small field dosimetry in radiation therapy
Tanya Kairn (Genesis Cancer Care)	Scott Crowe (CCS)	Bulk evaluation of dosimetric quality of radiotherapy treatment plans
Vincent Grégoire (EORTC)	Adj Prof L Kenny (CCS DRO)	NIMORAL - TROG 14.03 (1219-ROG-HNCG) A blind randomized multicenter study of accelerated fractionated chemo-radiotherapy with or without the hypoxic cell radiosensitizer nimorazole (Nimoral), using a 15 gene signature for hypoxia in the treatment of squamous cell carcinoma of the head and neck
Danny Rischin (PMCC)	Adj Prof L Kenny (CCS DRO)	HPV - TROG 12.01 A randomised trial of Weekly Cetuximab And Radiation Versus Weekly Cisplatin and Radiation in Good Prognosis Locoregionally Advanced HPV-Associated Oropharyngeal Squamous Cell Carcinoma
Chamindie Punyadeera (QUT)	Adj Prof L Kenny (CCS DRO)	SPIT Study A simple saliva test to diagnose head and neck cancer at an early stage - head and neck cancer detection is a spitting distance away
Prof Rajiv Khanna (QIMR)	Adj Prof L Kenny (CCS DRO)	P2191 Development of an Adoptive T Cell Therapy for HPV-Associated Malignancies
Chamindie Punyadeera (QUT)	Adj Prof L Kenny (CCS DRO)	JNJ Saliva Study Developing an Oral Rinse Method to Detect Human Papillomavirus
Scott Williams and Paul Nguyen (NHMRC)	Dr P Chan (CCS DRO)	ENZARAD Randomised phase 3 trial of enzalutamide in androgen deprivation therapy with radiation therapy for high risk, clinically localised, prostate cancer
Kumar Gogna (RO Mater)	Dr C Bettington (CCS DRO)	SPLIT COURSE A single arm, prospective Phase II study of Split-Course Pelvic Radiotherapy for Locally Progressive, Castrate Resistant Prostate Cancer
Assoc Prof Margot Lehman (PAH)	Dr P Chan (CCS DRO)	P LUNG - TROG 11.03 A randomised phase III trial of High Dose Palliative Radiotherapy (HDPRT) versus concurrent Chemotherapy HDPRT (C-HDPRT) in patients with good performance status, locally advanced / small volume metastatic NSCLC not suitable for radical chemo-radiotherapy
A/Prof Christine Paul (UON)	Dr P Chan (CCS DRO)	OPAL A randomised controlled trial of online versus telephone-based information and support: Can electronic platforms deliver effective care for lung cancer patients?"
Dr Gianluca Severi (Cancer Council Victoria)	Dr L Jeffree (CCS DRO)	AGOG Australian Genomics and Clinical Outcome of Glioma - Epidemiology Study
Professor Gerald B. Fogarty (ANZMTG)	Dr R Allison (CCS DRO)	WBRT - ANZMTG 01/07 TROG 08.05 Whole Brain Radiotherapy following local treatment of intracranial metastases of melanoma- A randomised phase III trial
Dr Karen Lim (Liverpool Cancer Therapy Centre)	Dr P Chan (CCS DRO)	GYNAE MRI Developing methods to allow adaptive radiotherapy for gynaecological cancers with MRI (cervix)
Assoc Prof Peter Graham (SGH)	Dr R Cheuk (CCS DRO)	STARS - TROG 08.06 A randomised comparison of anastrozole commenced before and continued during adjuvant radiotherapy for breast cancer versus anastrozole and subsequent anti-oestrogen therapy delayed until after radiotherapy. (STARS - Study of Anastrozole and Radiotherapy Sequencing)
A/Prof Boon Chua (PMCC)	Adj Prof L Kenny (CCS DRO)	DCIS - TROG 07.01 A randomised phase III study of radiation doses and fractionation schedules in non-low risk ductal carcinoma in situ (DCIS) of the breast
A/Prof Michael Mac Manus (PMCC)	Dr G Pratt (CCS DRO)	MZL - TROG 05.02 A prospective single arm trial of involved field radiotherapy alone for stage I-II low grade non-gastric marginal zone lymphoma.
L. Mileskin (PMCC)	Dr R Cheuk (CCS DRO)	PORTEC - 3 - TROG 08.04 ANZGOG A Randomised phase III trial comparing concurrent chemoradiation and adjuvant chemotherapy with pelvic radiation alone in high risk and advanced stage endometrial carcinoma.
Prof Jim Denham (NMH)	Adj Prof L Kenny (CCS DRO)	RADAR - TROG 03.04 A Randomised Trial Investigating the Effect on Biochemical (PSA) Control and Survival of Different Durations of Adjuvant Androgen Deprivation in Association with Definitive Radiation Treatment for Localised Carcinoma of the Prostate
Dr Maria Pearse (Auckland City Hospital)	Dr C Lin (CCS DRO)	RAVES - TROG 08.03 Radiotherapy Adjuvant versus Early Salvage. A phase III multi-centre randomised trial comparing adjuvant radiotherapy (RT) with early salvage RT in patients with positive margins or extraprostatic disease following radical prostatectomy
A/Prof Michael Poulsen (RO mater)	Dr G Dickie (CCS DRO)	MP3 - TROG 09.03 A Phase II Efficacy Study of Chemo-radiotherapy in PET Stage II and III Merkel Cell Carcinoma of the Skin
Dr Gail Ryan (PMCC)	Dr R Allison (CCS DRO)	TROG 06.01 Primary chemotherapy with Temozolomide vs. Radiotherapy in patient's with Low Grade Gliomas after stratification for genetic 1P loss: A phase III Study.
A/Prof Sandro Porceddu (PAH)	Adj Prof L Kenny (CCS DRO)	POST - TROG 05.01 Post-operative concurrent chemo-radiotherapy versus post-operative radiotherapy in high-risk cutaneous squamous cell carcinoma of the head and neck

Research Awards and Achievements

Recipient	Award	Event
Adj Prof Lizbeth Kenny	Distinguished Fellow	Cardiovascular and Interventional, Radiology Society of Europe
Scott Crowe	2016 Bob Fitchew Award	Australasian College of Physical Scientists & Engineers in Medicine Queensland Branch Symposium
Josephine Cannon	ASMIRT Qld Branch Best SPP Presentation	Qld Radiation Therapy Weekend Conference: [Brisbane Novotel : October 14-16 th , 2016]
Dr Yuvnik Trada	CE Eddy Prize	RANZCR Annual Scientific Meeting

Research Grants Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Steve Sylvander	Radiation Oncology	Catalyst optical surface monitoring system	New Technology	\$72,000	\$528,000 (2015-2017)
Lizbeth Kenny	Radiation Oncology	MIM Maestro Deformable Registration. Deformable registration software allows for elastic accurate registration of PET/CT, contrast CT, CBCT/ MVCT, MRI dose and contour objects onto radiation treatment planning CT scans to facilitate accurate delineation of the volume of cancer requiring radiation treatment along with dose accumulation for adaptive treatment or instances of recurrence	NTFEP	\$473,000	\$473,000 (2015-2017)
Graeme Dickie	Radiation Oncology	QCOG Cancer Clinical Trial Data Manager Grant	Queensland Clinical Oncology Group	\$78,500	\$78,500 (2016)
Benjamin Chua, Bryan Day, Stephen Rose, Paul Thomas, Lindy Jeffree, Yi-Chieh Lim, Po-ling Inglis, Zarnie Lwin, Jacqui Keller	Radiation Oncology	Using molecular-guided PET/ MRI Using molecular-guided PET/ MRI imaging to target hypoxia in glioblastoma: A preclinical study to identify novel pathways and define molecular signatures associated with hypoxia and poor patient outcome	HIRF seed research funding	\$66,498	\$66,498 (2017)
Lizbeth Kenny	Radiation Oncology	CXCR4 PET for nodal staging of resectable mucosal head and neck squamous cell carcinoma (HNSCC)	HIRF seed research funding	\$56,017.50	\$56,017.50 (2017)
Craig Lancaster, Scott Crowe, Tanya Kairn, Jamie Trapp, Robyn Cheuk	Radiation Oncology Medical Physics	Estimating and minimising foetal dose from radiotherapy treatments delivered to pregnant cancer patients	RBWH Foundation	\$40,000	\$40,000 (2016)
Lizbeth Kenny	Radiation Oncology	Unless contraindicated, all patients receiving radical head and neck cancer chemoradiation at RBWH, undergo a FDG PET CT and FDG PET MRI for fusion to planning CT scans. This has the potential to help determine acquisition algorithms for head and neck PET MRI. This would then also be of value to the PET MRI team at PAH and of commercial importance to our industry partner	HIRF seed research funding	\$35,090	\$35,090 (2017)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Samuel Peet	Radiation Oncolog	Out-of-field dose in contemporary radiation therapy	RBWH post-grad research scholarship	\$33,884	\$33,884 (2017)
Kumar Gogna Catherine Bettington	Radiation Oncology	A single arm, prospective Phase II study of Split-Course Pelvic Radiotherapy for Locally Progressive, Castrate Resistant Prostate Cancer	RANZCR - Ferring Pharmaceuticals Grant	\$25,000	\$25,000 (2015-2017)
Jemma Devereaux	Radiation Oncology	Implementation of Deep Inhalation Breath Hold	RBWH Foundation and CCS Fundraising Committee	\$2,000	\$2,000 (2016)
Jennifer Edmunds	Radiation Oncology	Study Coordinator scholarship	ANZUP Clinical trials	\$550	\$550 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Binny D, Lancaster CM, Kairn T, Trapp JV, Back P, Cheuk R, Crowe SB. Investigating the use of image thresholding in brachytherapy catheter reconstruction. <i>Australas Phys Eng Sci Med.</i> 2016;39(4):913-919.
Journal article	Binny D, Lancaster CM, Kairn T, Trapp JV, Crowe SB. Monitoring Daily QA3 constancy for routine quality assurance on linear accelerators. <i>Physica Medica.</i> 2016;32(11):1479-1487.
Journal article	Bridge P, Crowe SB, Gibson G, Ellemor NJ, Hargrave C, Carmichael M. A virtual radiation therapy workflow training simulation. <i>Radiography.</i> 2016;22(1):e59-e63
Journal article	Brown T, Getliffe V, Banks M, Hughes B, Lin C, Kenny L, Bauer J. Validation of an updated evidence based protocol for proactive gastrostomy tube insertion in patients with head and neck cancer. <i>European Journal of Clinical Nutrition,</i> 2016. doi:10.1038/ejcn.2015.230
Journal article	Brown TE, Crombie J, Spurgin A-L, Tripcony L, Keller J, Hughes BGM, Dickie G, Kenny LM, Hodge RA. Improving guideline sensitivity and specificity for the identification of proactive gastrostomy placement in patients with head and neck cancer. DOI 10.1002/hed.24184. <i>Head Neck.</i> 2016 Apr;38 Suppl 1:E1163-71
Journal article	Croker J, Chua B, Bernard A, Allon M, Foote M. Treatment of brain oligometastases with hypofractionated stereotactic radiotherapy utilising volumetric modulated arc therapy. <i>Clin Exp Metastasis.</i> 2016 Feb;33(2):125-32.
Journal article	Crowe SB, Kairn T. Women in Medical Physics: a preliminary analysis of workforce and research participation in Australia and New Zealand. <i>Australas Phys Eng Sci Med.</i> 2016;39(2):525-532.
Journal article	Crowe SB, Sutherland B, Wilks R, Sylvander S, Seshadri V, Trapp JV, Kairn T. Relationships between gamma criteria and action levels: Results of a multi-center audit of gamma agreement index results. <i>Med Phys.</i> 2016;43(3):1501-1506.
Journal article	Dickie GJ, Askew J, Ha T. EP-1036: Glottic carcinoma stage T1 radiotherapy. <i>Radiotherapy and Oncology.</i> April 2016 volume 119, Supplement 1, Page S501.
Journal article	Kairn T, Aland T, Crowe SB, Trapp JV. Use of electronic portal imaging devices for electron treatment verification. <i>Australas Phys Eng Sci Med.</i> 2016;39(1):199-209.
Journal article	Kairn T, Charles PH, Crowe SB, Trapp JV. Effects of inaccurate small field dose measurements on calculated treatment doses. <i>Australas Phys Eng Sci Med.</i> 2016;39(3):747-753.
Journal article	Kairn T, Crowe SB, Langton CM, Trapp JV. Bulk evaluation and comparison of radiotherapy treatment plans for breast cancer. <i>Australas Phys Eng Sci Med.</i> 2016;39(3):633-644.
Journal article	Kairn T, Papworth D, Crowe SB, Anderson J, Christie DRH. Dosimetric quality, accuracy and deliverability of modulated radiotherapy treatments for spinal metastases. <i>Med Dosim.</i> 2016;41(3):258-266.
Journal article	Kenny L and Adam, A. Image Guided Therapy: The importance of local tumour control. <i>European Journal of Surgical Oncology,</i> February 2016. doi:org/10.1016/j.ejso.2016.01.021
Journal article	Morales JE, Butson M, Crowe SB, Hill R, Trapp JV. An experimental extrapolation technique using Gafchromic EBT3 film for relative output factor measurements in small x-ray fields. <i>Med Phys.</i> 2016;43(8):4687-4692.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Moroney LB, Helios J, Ward EC, Crombie J, Wockner LF, Burns CL, Spurgin A-L, Blake C, Kenny L , and Hughes BGM. Patterns of dysphagia and acute toxicities in patients with head and neck cancer undergoing helical IMRT +/- concurrent chemotherapy. Oral Oncology, November 2016. doi.org/10.1016/j.oraloncology.2016.11.009
Journal article	Nottage MK, Lin C, Hughes BG, Kenny L , Smith DD, Houston K, Francesconi A. Prospective study of definitive chemoradiation in locally or regionally advanced squamous cell carcinoma of the skin. Head and Neck, December 2016 . doi: 10.1002/hed.24662
Journal article	Peeet SC, Wilks R , Kairn T, Trapp JV, Crowe SB . Calibrating radiochromic film in beams of uncertain quality. Med Phys. 2016;43(10):5647-5652.
Journal article	Peeet SC, Wilks R , Kairn T, Crowe SB. Measuring dose from radiotherapy treatments in the vicinity of a cardiac pacemaker. Physica Medica 2016;32(12):1529-1536.
Journal article	Punyadeera C, Kulasinghe A, Kenny L , Perry C, Thiery J-P, Jovanovic L, Vela I, Nelson C: Impact of label-free technologies in head and neck cancer circulating tumour cells. Oncotarget, November 2016 . doi:10.18632/oncotarget.12086
Journal article	Ringash J, Fisher R, Peters L, Trotti A, O'Sullivan B, Corry J, Kenny L , Van Den Bogaert W, Wratten C, Rischin D. Effect of p16 Status on the Quality-of-Life Experience During Chemoradiation for Locally Advanced Oropharyngeal Cancer: A Substudy of Randomized Trial Trans-Tasman Radiation Oncology Group (TROG) 02.02 (HeadSTART). Int J Radiat Oncol Biol Phys. 2016 Mar 23.
Journal article	Schmidt H, Kulasinghe A, Kenny L , Punyadeera C. The development of a liquid biopsy for head and neck cancers. Oral Oncology, October 2016. doi: 10.1016/j.oraloncology.2016.07.014
Journal article	Schlumberger M, Jarzab B, Cabanillas ME, Robinson B, Pacini F, Ball DW, McCaffrey J, Newbold K, Allison R , Martins RG, Licitra LF, Shah MH, Bodenner D, Elisei R, Burmeister L, Funahashi Y, Ren M, O'Brien JP, Sherman SIA Phase II Trial of the Multitargeted Tyrosine Kinase Inhibitor Lenvatinib (E7080) in Advanced Medullary Thyroid Cancer Clin Cancer Res. 2016 Jan 1;22(1):44-53.
Journal article	Vinod SK, Lim K, Bell L, Veera J, Ohanessian L, Juresic E, Borok N, Chan P , Chee R, Do V, Govindarajulu G, Sridharan S, Johnson C, Moses D, Van Dyk S, Holloway L. High-risk CTV delineation for cervix brachytherapy: Application of GEC-ESTRO guidelines in Australia and New Zealand. J Med Imaging Radiat Oncol. 2017 Feb;61(1):133-140

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Ahern, C . Assessment of breast inter-fraction variation using daily MVCT imaging. Qld Radiation Therapy Weekend Conference, Brisbane, October 2016
Oral	Ahern, C . Assessment of breast inter-fraction variation using daily MVCT imaging. Australian Institute of Radiography (AIR) Graduate Presentation Day. Brisbane, November 2016
Oral	Baker J . Clinical Considerations when Transitioning from Pencil Beam to Collapsed Cone in Oncentra Masterplan for Planning Breast Treatment. ASMMIRT 2016 Conference. Brisbane, April 2016
Oral	Binny D, Lancaster CM, Sylvander SR , Kairn T, Trapp JV, Crowe S. Efficiency of dose control system and quality assurance in Tomotherapy treatments. International Conference on Medical Physics, Bangkok, Thailand, December 2016
Oral	Burrows K . Patient Education- Less Paper More Pictures: ASMMIRT 2016 Conference. Brisbane, April 2016
Oral	Cannon J . A comparison of different 4DCT reconstructions used for treatment planning and IGRT for lung Stereotactic Ablative Body Radiotherapy (SABR). Queensland Radiation Therapy Weekend Conference, Brisbane, October 2016.
Oral	Crowe SB , Tang TLS, Sylvander SR , Kairn T. Measuring very small field output factors with a Roos chamber. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Oral	Dancewicz O, Sylvander SR , Markwell TS, Crowe SB , Trapp JV. Radiological properties of 3D printed materials in kilovoltage and megavoltage photon beams. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Oral	Kairn T, Crowe SB . Verification and validation of in-house film dosimetry code. International Conference on the use of Computers in Radiation Therapy, London, June 2016.
Oral	Hoffman C . The Use of High Dose Rate Brachytherapy for a Paediatric Perianal Rhabdomyosarcoma. ASMMIRT 2016 Conference. Brisbane, April 2016]

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Luscombe J. Retrospective Evaluation of the impact of variable bladder filling on target volume for patients with Gynaecological cancer treated with VMAT. Australian Institute of Radiography (AIR) Graduate Presentation Day. Brisbane, November 2016
Oral	Luscombe J. Retrospective Evaluation of the impact of variable bladder filling on target volume for patients with Gynaecological cancer treated with VMAT. Queensland Radiation Therapy Weekend Conference. Brisbane, October 2016
Oral	McCoola B. The Evaluation of a Paediatric Radiation Oncology Model of Care to Decrease Anaesthesia Rates. ASMMIRT 2016 Conference. Brisbane, April 2016
Oral	Russell C. Retrospective Evaluation of setup errors for Stereotactic Brain RT. Australian Institute of Radiography (AIR) Graduate Presentation Day. Brisbane, November 2016
Oral	Russell C. Retrospective Evaluation of setup errors for Stereotactic Brain RT. Queensland Radiation Therapy Weekend Conference. Brisbane, October 2016
Oral	Zolfaghari S, Crowe SB , Papworth D, West M, Kairn T. Testing the limits of stereotactic radiosurgery for multiple brain metastases. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Aseña A, Smith ST, Kairn T, Crowe SB , Franich RD, Trapp JV. Reduction of artefacts caused by missing ray-sum data in optical-CT imaging of implants in gel dosimeters. International Conference on 3D Radiation Dosimetry, Galveston, USA, November 2016
Poster	Chua B, Jeffrey L, Thomas P, Goodman S, Lwin Z. Diagnostic performance of 18-fluorodeoxyglucose positron emission tomography (FDG-PET) in evaluation of glioma. Society of Neuro-Oncology annual meeting, Arizona November 2016
Poster	Kairn T, Aseña A, Crowe SB, Livingstone A, Papworth D, Smith ST, Sutherland B, Sylvander S, Franich RD, Trapp JV. Can a commercial gel dosimetry system be used to verify stereotactic spinal radiotherapy treatment dose distributions? International Conference on 3D Radiation Dosimetry, Galveston, USA, November 2016
Poster	Kairn T, Crowe SB. Application of data mining to clinical protocol design: Are breath-hold techniques beneficial for prone breast radiotherapy patients? International Conference on the use of Computers in Radiation Therapy, London, UK, June 2016.
Poster	Kairn T, Crowe SB. Clinical application of data mining: Evaluation and comparison of radiotherapy treatment plans for breast cancer. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Kirabo SN, Binny D, Jafari S, Sylvander SR, Crowe SB. In-vivo dosimetry for total skin electron treatments using wearable glass beads. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Kirabo SN, Crowe SB, Binny D, Jafari SM, Sylvander SR. Wearable glass beads in in-vivo dosimetry for total body irradiation and total skin electron irradiation. International Conference on Dosimetry and its Applications, Surrey, UK, July 2016.
Poster	Liu T, Batstone M, Chua B. The Utility of Post-Operative Radiotherapy in Intermediate Risk Oral Squamous Cell Carcinoma. ANZHNCs in Auckland. October 2016
Poster	McCoola B, Outhwaite J-A. The Use of Behavioural Therapy to reduce general anaesthesia in paediatric RT. Cancer Care Services Research Retreat. Brisbane, November 2016
Poster	Moroney L, Helios J, Ward E, Crombie J, Pelecanos A, Burns C, Spurgin A-L, Blake C, Kenny L, Hughes B. Patterns of dysphagia and acute toxicities in patients with oropharyngeal carcinoma undergoing helical IMRT +/- concurrent chemotherapy. ANZHNCs in Auckland. October 2016
Poster	Orth AG, Sylvander SR, Crowe SB. Comparative study of total skin electron therapy (TSET) treatments of Mycosis Fungoides. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Peet S, Wilks R, Kairn T, Crowe SB. Characterising and estimating doses near cardiac devices during radiotherapy treatments. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Shanker M, Chua B, Panizza B, Proccedu S. Complications from neck dissections post PET/CT directed neck management protocol: An analysis of patients with neck positive PET/CT post definitive chemoradiotherapy" - Poster presented at European Congress of Radiology, Vienna, Mar 2016, manuscript submitted to Asia-Pacific Journal of Clinical Oncology
Poster	Trinh HM, Moroney L, Crombie J, Ward E, Tripcony L, Choma K, Dickie G, Chua B. Outcomes of hypopharynx cancer treated definitively using helical intensity modulated radiation therapy. Australian Head & Neck Cancer Society (ANZHNCs) ASM in Auckland. October 2016
Poster	Wilks R, Nilsson S. HDR afterloader quality assurance using helical diode array. Engineering and Physical Sciences in Medicine, Sydney, November 2016
Poster	Zolfaghari S, Papworth D, West M, Crowe SB, Kairn T. Testing the limits of stereotactic radiosurgery for multiple brain metastases. Queensland Radiation Therapist Weekend, Brisbane, October 2016
Invited	Crowe SB. Radiotherapy in the Millennium and Beyond. Trans-Tasman Radiation Oncology Group Annual Scientific Meeting Clinical Research Workshop, Brisbane, March 2016
Invited	Dry A. Interview Preparation & Expectations. Early Careers Forum. Brisbane, September 2016
Invited	Keller J. Information access for clinical trials. Trans Tasman ROG ASM, Brisbane, 14 March 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Kenny L. Quality Assurance in Interventional Oncology: it's not just about the kit. Radiological Society of North America. Chicago USA. November 2016
Invited	Kenny L. The Importance of Local Cure. RANZCR ASM, Gold Coast, Australia. October 2016
Invited	Kenny L. Treating Wisely – Reviewing the evidence and reporting on patient outcomes. HealthPACT Forum, Brisbane, October 2016
Invited	Kenny L. The CIRSE QA System for Interventional Oncology: as essential step to credibility in cancer care. CIRSE, Barcelona, Spain. September 2016
Invited	Kenny L. Quality Assurance and Interventional Oncology: what radiation therapy can teach us. World Congress of Interventional Oncology, Boston, USA. Jun 2016
Invited	Kenny L. It takes more than technology to be an oncologist. Harvard Medical School, Boston, USA. Jun 2016
Invited	Kenny L. CIRSE Practice Standards for Interventional Oncology – an essential step for credibility in cancer care. ECIO, Dublin, Ireland. Apr 2016
Invited	Kenny L. The Impact of Treatment on Cancer Cure. European Medicines Agency, London, England. Apr 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Radiation Oncology	24	0	27	16



Critical Care and Clinical Support Services



Dr Mark Mattiussi
Executive Director
Critical Care and Clinical Support
Services

All world class health services have one thing in common - they recognise the vital importance of research as a critical cornerstone of clinical excellence and the RBWH Critical Care and Clinical Support Services teams continue to embody this principle with enthusiasm and pride.

The 2016 Research report showcases the depth and breadth of research integration across the clinical teams. There are senior experienced research programs with national and international partners but similarly there is a strong and visible presence of new and emerging researchers who are responding to their intrinsic curiosity by embarking on smaller scale but equally important research projects. Very importantly we see research involving and spanning the professional disciplines that provide patient care across Critical Care and Clinical Support Services.

One of the greatest challenges we face involves translating outcomes from research into changing the way we deliver care. By embedding research into normal business practice we are able to dramatically improve the implementation and translation of our research outcomes into better and more efficient care that improves patient outcomes.

We must celebrate our research activities across our clinical teams and continue to invest the resource, interest and enthusiasm that ensures RBWH continues to maintain its position as a world class health service. Critical Care and Clinical Support Services has much to be proud of.

Department of Emergency Medicine

In 2016 the Department of Emergency Medicine engaged in a broad spectrum of research activities across our four theme areas of critical care, cardiac, trauma, and people & practices. Our researchers had an extremely productive year; having authored or co-authored an impressive number of peer-reviewed publications. The work underpinning this achievement was driven by a talented group of senior researchers and clinical leaders, supported by enthusiastic research staff and students. Our unique clinical environment and a focus on high quality research questions also resulted in successful collaborative partnerships extending across RBWH departments, and across hospitals and universities both nationally and internationally.

Our research work was presented throughout the year at conferences and symposia in Brisbane, Melbourne, Adelaide, New Zealand, Fiji, Spain, Italy and USA. Our researchers were recognised with several awards: Dr Dan Bodnar was awarded “*Best Paper*” at the 12th Annual Queensland Emergency Medicine Autumn Symposium in Brisbane; Tracey Hawkins and the CREDIT study team were awarded “*Best Poster*” presentation at the 33rd Annual Scientific Meeting of the Australasian College of Emergency Medicine in Queenstown, New Zealand; Dr Louise Cullen and co-researchers won the prestigious Ko Awatea International Excellence in Health Improvement Award at the APAC Forum in Sydney for their work on the Accelerated Chest Pain Risk Evaluation (ACRE) project; Dr Cullen also received the Metro North Hospital and Health Service Research Excellence Award, the Clinical Researcher Award from the Australian Society for Medical Research, and was part of the research team that received an “*Honourable Mention*” at the UQ-Ochsner Clinical School Annual Research Day.

As always, we greatly appreciate the financial support of our research funding partners. In 2016 we were very fortunate to be working on projects that were supported by the Emergency Medicine Foundation, The Royal Brisbane and Women’s Hospital Foundation and Queensland Health. New funding was awarded by the Emergency Medicine Foundation, The Royal Brisbane and Women’s Hospital Foundation, The Prince Charles Hospital Foundation and the National Heart Foundation.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Julian Williams	PhD, QUT (2008-2017)	Identifying risk factors for MRSA	Jeffrey Lipman, Anthony Brown
Wahid Allahaibi	PhD, QUT (2016-2018)	A New Approach to Optimise Hospital Emergency and Inpatient Operations	Michael Cholette, Azharul Karim , John Burke
Kazi Ahsan	PhD, QUT (2014-2017)	Lean integrated optimisation model of emergency department for improved patient flow	Azharul Karim, Gerard Fitzgerald, Michael Cholette, John Burke , Doug Morel
Dylan Flaws	PhD, UQ (2012-2017)	Derivation of a diagnostic decision tree for the Acute Coronary Syndrome management pathway	Louise Cullen , Martin Than
Ariel Ho	MPhil, UQ (2016-2017)	Examination of Troponin Testing during Implementation and Post- Implementation of Accelerated Chest Pain Assessment Strategies: a Marker of Translational Research Success	Louise Cullen , Jaimi Greenslade
Daniel Lancini	PhD, UQ (2016-2020)	Atrial fibrillation in hospitalised patients	Louise Cullen , Paul Martin
Kirsten Strudwick	PhD, UQ	Musculoskeletal Quality Indicators	Trevor Russell (UQ), Melinda Martin-Kahn (UQ), Anthony Bell
Kimberley Ryan	MN, Research (2015-2017)	The lived experience of emergency nurses caring for elderly patients dying from traumatic injuries	Leanne Jack (QUT)

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Anthony Bell	Associate Professor Adjunct Associate Professor	Faculty of Medicine, Southside Clinical School School of Public Health	University of Queensland (2012-current) Queensland University of Technology (2013-current)
Daniel Bodnar	Senior Lecturer	Faculty of Medicine	University of Queensland (2012-current)
Anthony Brown	Professor of Emergency Medicine Adjunct Professor	Faculty of Medicine, Discipline of Anaesthesiology and Critical Care Faculty of Public Health and Social Work	University of Queensland (2009-current) Queensland University of Technology (2009-current)
Nathan Brown	Honorary Senior Lecturer	Faculty of Medicine, Discipline of Anaesthesiology and Critical Care	University of Queensland (2016-current)
John Burke	Adjunct Associate Professor	Faculty of Public Health and Social Work	Queensland University of Technology (2016-current)
Kevin Chu	Adjunct Associate Professor Adjunct Associate Professor	Faculty of Medicine Faculty of Public Health and Social Work	University of Queensland (2011-current) Queensland University of Technology (2009-current)
Louise Cullen	Adjunct Professor Adjunct Associate Professor	Faculty of Health Faculty of Medicine	Queensland University of Technology (2016-current) University of Queensland (2015-current)
Jaimi Greenslade	Adjunct Senior Lecturer Adjunct Associate Professor	Faculty of Medicine Faculty of Public Health and Social Work	University of Queensland (2011-current) Queensland University of Technology (2012-current)
Catherine Hurn	Senior Lecturer	Faculty of Medicine	University of Queensland (2008-current)
Trent Lipp	Senior Lecturer	Faculty of Medicine	University of Queensland (2014-current)
William Lukin	Senior Lecturer	Faculty of Medicine	University of Queensland (2008-current)
Alexandra Markwell	Senior Lecturer	Faculty of Medicine	University of Queensland (2012-current)
Duncan McAuley	Senior Lecturer	Faculty of Medicine	University of Queensland (2012-current)
Philip Richardson	Senior Lecturer	Faculty of Medicine	University of Queensland (2001-current)
David Rosengren	Senior Lecturer	Faculty of Medicine	University of Queensland (2006-current)
Sean Rothwell	Senior Lecturer	Faculty of Medicine	University of Queensland (2006-current)
Frances Williamson	Senior Lecturer	Faculty of Medicine	University of Queensland (2012-current)



Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Louise Cullen	William Parsonage (Cardiology)	Basel Syncope Evaluation Study (Basel IX)
Louise Cullen	Jaimi Greenslade (DEM), William Parsonage (Cardiology), Adam Scott (Cardiology), Jacobus Ungerer (Pathology Queensland), Tracey Hawkins (DEM), Gerben Keijzers (GCUH), Julia Crilly (Griffith University), Nicholas Graves (QUT), Ariel Ho (UQ)	Examining translation of research into improved assessment for heart attack
Louise Cullen	Jaimi Greenslade (DEM), Julian Williams (DEM), Claire Rickard (Griffith University), Matthew Jensen (DEM), Paul Scuffham (Griffith University), Frances Kinnear (TPCH)	The cannulation rates in ED intervention trial (CREDIT)
Louise Cullen	John Fraser, Kiran Shekar, Liam Byrne, Obonyo Nchfatso, Connie Boon, Louise See Ho, Margaret Passmore, Kathryn Maitland	Too much of a good thing; does fluid resuscitation worsen septic shock?
Louise Cullen	Anthony Brown (DEM), Jaimi Greenslade (DEM), Peter O'Rourke (QUT), Kevin Chu (DEM), Xiang-Yu Hou (QUT), William Parsonage (Cardiology), Nicholas Graves (QUT), Martin Than (Christchurch Hospital, NZ)	Rapid assessment of cardiac chest pain: The Australia and New Zealand Assessment of chest Pain Rule (ANZAP rule): A prospective validation study
Gary Mitchell	Louise Cullen (DEM)	Diagnosis of acute coronary occlusion in patients with a ventricular paced rhythm (PERFECT)
Mahender Samtani	Jennifer Paratz (Physiotherapy), Shaun O'Leary (Physiotherapy), Venkat Acholi (DEM), Janelle Heine (DEM)	Comparison of two exercise approaches for the management of low back pain in the emergency department setting
Philip Richardson	Elizabeth Doran (Pharmacy), Kevin Chu (DEM), Jaimi Greenslade (DEM)	Medication & Fluid orders in the Emergency Department: Examining the incidence of error and adverse events
Alexandra Markwell	Tegwen Howell (DEM), Carol Windsor (QUT), Anthony Bell (DEM), Kevin Chu (DEM), Angela O'Malia (Social Work)	Describing the experiences of social workers in a tertiary ED
Kevin Chu	Jeremy Furyk (Townsville Hospital), Gerben Keijzers (GCUH), Carol Windsor (QUT), Rob Eley (PAH), Frances Kinnear (TPCH), Andrew Staib (PAH)	Diagnostic workup for suspected subarachnoid haemorrhage
Kevin Chu	Anthony Nguyen (Australian e-Health Research Centre, CSIRO)	Preventing missed diagnoses through automated reconciliation of ED medical records
Bill Lukin	Xiang-Yu Hou (QUT), Gerald Fitzgerald (QUT), David Green (GCUH), Alan O'Connor (DEM), Nicholas Graves (QUT), Alan Barnard (QUT), Jaimi Greenslade (DEM), Kevin Chu (DEM)	Evaluation of Hospital In Nursing Home Program in Queensland
John Burke	Gerald Fitzgerald (QUT)	Four hour rule project - validation and impact of the four hour rule in the ED: a large data linkage study

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Julian Williams	David Paterson (Infectious Diseases Unit), Graeme Nimmo (Microbiology), Jaimi Greenslade (DEM), Katherine Doucet, Kevin Chu (DEM), Jeffrey Lipman (ICU), Anthony Brown (DEM)	Identifying risk factors for MRSA
Daniel Bodnar	Emma Bosley (QAS), Stephen Rashford (QAS), Mark Shirran (GCUH), Catherine Hurn (DEM), Matthew Meister, Glenn Ryan (PAH)	Queensland pre-hospital study identifying which trauma patients are at risk of bleeding to death
Anthony Bell	Michelle Romeo (MNHS), Roger O’Gorman (DEM), Trudy Teasdale (GCUH), and The Australian eHealth Research Centre (CSIRO)	Reviewing equitable access to healthcare outcomes outside of hours (REACH)
Anthony Bell	John Burke (DEM), Gerald Fitzgerald (QUT), Sam Toloo (QUT), Julia Crilly (GCUH), Ged Williams (GCUH)	State-wide models of care in emergency departments (SWAMPED)
Tina Moriarty	Kevin Chu (DEM), Daniel Bodnar (DEM),	Roll overs in field triage (RIFT)
Debra Harcourt (DEM/Patient Flow Unit)	Leonie Cartlidge-Gaan (Internal Medicine), Clancy McDonald (DEM), John Burke (DEM), Anthony Nesbit (Patient Flow Unit), Amanda Dines (Executive Services)	Emergency department frequent presenters response project

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Julia Crilly (Griffith University and GCUH)	David Rosengren (DEM), Sean Rothwell (DEM)	Evaluating the impact of alcohol on emergency department presentations (ETOH)
Drew Richardson (The Canberra Hospital)	David Rosengren (DEM)	Australasian College of Emergency Medicine Alcohol Harm in Emergency Departments (AHED) Snapshot
James Winearls (GCUH)	Catherine Hurn (DEM), Anthony Holley (Trauma Services)	Fibrinogen early in severe trauma study (FEISTY)
Andrea Driscoll (Deakin University)	Louise Cullen (DEM)	Redesigning systems of care for heart failure patients to improve outcomes
William Crawford (TPCH)	Louise Cullen (DEM)	Impact of fluid volume resuscitation on nitric oxide-induced oxidative stress and cardiac dysfunction in an ovine septic shock model
Christopher Reid (Curtin University of Technology, WA)	Louise Cullen (DEM)	Centre for Research Excellence in Cardiovascular Outcomes Improvement
Kylie Baker (Ipswich Hospital)	Louise Cullen (DEM)	Breathe easy early study (BEES)
John Fraser (TPCH)	Louise Cullen (DEM)	Cardiovascular haemodynamics in an ovine model of brain stem death
Paul Fulbrook (TPCH)	Fiona Coyer (Nursing Research and Development Unit), Rhys Higgo (DEM)	Pressure injuries in the emergency department
Colin Page (PAH)	Frances Williamson (DEM)	An audit of a change in clinical practice for Queensland Ambulance Service from midazolam to droperidol for prehospital acute behavioural disturbance

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Glenn Ryan (PAH)	Frances Williamson (DEM)	Potential of resuscitative balloon occlusion of the aorta (REBOA) for non-compressible torso haemorrhage
Frances Kinnear (TPCH)	Kevin Chu (DEM)	A randomised controlled trial of interventional versus conservative treatment of primary spontaneous pneumothorax
Kylie Baker (Ipswich Hospital)	Kevin Chu (DEM)	Multicentre randomised controlled trial incorporating bedside lung ultrasound into the diagnosis of congestive cardiac failure in breathless older patients
Stephen Rashford (QAS)	Daniel Bodnar (DEM)	A prospective blinded evaluation of the sensitivity and specificity of pre-hospital Focused Abdominal Sonogram for Trauma (FAST)
Bradley Partridge (Caboolture Hospital)	Anthony Bell (DEM)	Survey of occupational violence in the emergency department
David Mountain (Sir Charles Gairdner Hospital, Perth)	Kevin Chu (DEM)	RESPECT-ED: Rates of pulmonary emboli (PE) and sub-segmental PE with modern computed tomographic pulmonary angiograms in emergency departments: a multi-centre observational study
Simon Brown (Harry Perkins Institute of Medical Research)	Kevin Chu (DEM)	Primary spontaneous pneumothorax (PSP) study
Peter Jones (Auckland District Health)	Anthony Bell (DEM)	Primary spontaneous pneumothorax (PSP) study

Research Awards and Achievements

Recipient	Award	Event
Dan Bodnar	Best Poster	12th Annual Queensland Emergency Medicine Autumn Symposium in Brisbane, May 2016
Hawkins T, Greenslade J , Van Hise C, Williams J, Berndt S, Dalton E , Cho E, Hills A, Williamson E, Flannery M, Jensen M, Collins R, Wynne P, Rickard C, Cullen L .	Best Poster (for "Cannulation rates in the emergency department intervention trial")	33rd Annual Scientific Meeting of the Australasian College of Emergency Medicine in Queenstown, New Zealand, November 2016
Louise Cullen and co-researchers	Ko Awatea International Excellence in Health Improvement Award (for the Accelerated Chest Pain Risk Evaluation project)	APAC Forum in Sydney, September 2016
Louise Cullen	Research Excellence Award	Metro North Hospital and Health Service
Louise Cullen	Clinical Researcher Award	Australian Society for Medical Research, ASMR Medical Research Week, June 2016
Iliceto A, Berndt SL, Greenslade JH, Parsonage WA, Hammett C , Than M, Hawkins T , Parker K, O'Kane S, Cullen L	Honorable Mention	UQ-Ochsner Clinical School Annual Research Day in New Orleans, May 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Crawford W, Cullen L	DEM	Impact of fluid volume resuscitation on nitric oxide-induced oxidative stress and cardiac dysfunction in an ovine septic shock model	The Prince Charles Hospital Foundation	\$9,994.00	\$9,994.00 (2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Driscoll A, Tonkin A, Hare D, Prior D, Cullen L , Albert N, et al.	DEM	Redesigning systems of care for heart failure patients to improve outcomes	National Heart Foundation	\$0	\$150,000.00 (2016 – 18)
Cullen L , Fraser J, Shekar K, Byrne L, Nchafastso O, Boone C, et al.	DEM	Too much of a good thing; Does fluid resuscitation worsen septic shock?	Emergency Medicine Foundation	\$10,767.00	\$77,233.00 (2016 – 17)
Cullen L , Graves N	DEM	The impact of ImpACT: a protocol to improve emergency chest pain assessment	AusHSI	\$0	\$110,000.00 (2016 – 17)
Mitchell G, Cullen L, Smith S, Dodd K	DEM	Paced Electrocardiogram Requiring Fast Emergent Coronary Therapy (PERFECT) Study	Emergency Medicine Foundation	\$16,866.00	\$16,866.00 (2016)
Savage R, Kline T, Lock C, Pattullo C, Bell AJ.	DEM, Pharmacy	Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study: An evaluation of the prescribing patterns and level of communication for oxycodone on discharge from RBWH ED	Emergency Medicine Foundation	\$0	\$34,955.00 (2017-2018)
Chew D, Briffa T, Cullen L , Quinn S, Karnon J	DEM	Improving rapid decision-making in the face of uncertainty: a randomised trial of a 1-hour troponin protocol in suspected acute coronary syndromes	NHMRC	\$0	\$1,095,320.00, (2017-20)
Briffa T, Cullen L , Chew D, Knuiman MW, Fatovich D, Hickman PE, et al.	DEM	Is highly-sensitive troponin testing advancing clinical practice, improving outcomes and cost-effective in the investigation and management of chest pain in the Emergency Department?	NHMRC	\$0	\$1,193,966.00, (2017-20)
Lancini D, Cullen L, Martin P, Prasad S, Greenslade J	DEM, Cardiology	Atrial fibrillation in the emergency chest pain presentation	RBWH Foundation	\$15,335.88	\$15,335.88 (2017)
Crilly J, Rosengren D , Green D, Furyk J, Rothwell S.	DEM	Evaluating the impact of alcohol on emergency department presentations (ETOH) awarded June 2016 (\$359,758).	Queensland Health	\$168,479	\$359,758 (2016-2017)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Aldous S, Richards AM, Cullen L , Pickering JW, Than M. The incremental value of stress testing in patients with acute chest pain beyond serial cardiac troponin testing. <i>Emerg Med J.</i> 2016;33(5):319-24.
Journal	Aroney CN, Cullen L . Appropriate use of serum troponin testing in general practice: a narrative review. <i>Med J Aust.</i> 2016;205(2):91-4.
Journal	Bell A , McDonald F, Hobson T. The Ethical Imperative to Move to a Seven-Day Care Model. <i>J Bioeth Inq.</i> 2016;13(2):251-60.
Journal	Boeddinghaus J, Reichlin T, Cullen L, Greenslade JH, Parsonage WA, Hammett C , et al. Two-Hour Algorithm for Triage toward Rule-Out and Rule-In of Acute Myocardial Infarction by Use of High-Sensitivity Cardiac Troponin I. <i>Clin Chem.</i> 2016;62(3):494-504. Brown AFT, Nandurkar H. Idarucizumab. An intravenous bolus reversal agent for dabigatran. <i>Med Today.</i> 2016;17(11):63-5.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Carlton E, Greenslade J , Cullen L , Body R, Than M, Pickering JW, Aldous S, Carley S, Hammett C, Kendall, J, Keevil B, Lord S, Parsonage W , Greaves K. Evaluation of High-Sensitivity Cardiac Troponin I Levels in Patients With Suspected Acute Coronary Syndrome. <i>JAMA Cardiol.</i> 2016;1(4):405-12.
Journal	Cheng Q, Greenslade JH , Parsonage WA , Barnett AG, Merollini K, Graves N, et al. Change to costs and lengths of stay in the emergency department and the Brisbane protocol: an observational study. <i>BMJ open.</i> 2016;6(2):e009746.
Journal	Chew DP, Scott IA, Cullen L , French JK, Briffa TG, Tideman PA, et al. National Heart Foundation of Australia & Cardiac Society of Australia and New Zealand: Australian Clinical Guidelines for the Management of Acute Coronary Syndromes 2016. <i>Heart Lung Circ.</i> 2016;25(9):895-951.
Journal	Chew DP, Scott IA, Cullen L , French JK, Briffa TG, Tideman PA, et al. National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand: Australian clinical guidelines for the management of acute coronary syndromes 2016. <i>Med J Aust.</i> 2016;205(3):128-33.
Journal	Chuang A, Hancock DG, Horsfall M, Alhammad NJ, Zhou J, Cullen L , et al. The predictive value of high sensitivity-troponin velocity within the first 6h of presentation for cardiac outcomes regardless of acute coronary syndrome diagnosis. <i>Int J Cardiol.</i> 2016;204:106-11.
Journal	Cullen L , Greenslade JH , Carlton EW, Than M, Pickering JW, Ho A, et al. Sex-specific versus overall cut points for a high sensitivity troponin I assay in predicting 1-year outcomes in emergency patients presenting with chest pain. <i>Heart (British Cardiac Society).</i> 2016;102(2):120-6.
Journal	Cullen L , Greenslade JH , Menzies L, Leong A, Than M, Pemberton C, et al. Time to presentation and 12-month health outcomes in patients presenting to the emergency department with symptoms of possible acute coronary syndrome. <i>Emerg Med J.</i> 2016;33(6):390-95.
Journal	Fan L, Hou XY, Zhao J, Sun J, Dingle K, Purtill R , Tapp S , Lukin B . Hospital in the Nursing Home program reduces emergency department presentations and hospital admissions from residential aged care facilities in Queensland, Australia: a quasi-experimental study. <i>BMC Health Serv Res.</i> 2016;16:46.
Journal	Ferguson I, Bell A , Treston G, New L, Ding M, Holdgate A. Propofol or Ketofol for Procedural Sedation and Analgesia in Emergency Medicine-The POKER Study: A Randomized Double-Blind Clinical Trial. <i>Ann Emerg Med.</i> 2016;68(5):574-82.
Journal	Flaws D, Than M, Scheuermeyer FX, Christenson J, Boychuk B, Greenslade JH, Aldous S, Hammett CJ , Parsonage WA , Deely JM, Pickering JW, Cullen L. External validation of the emergency department assessment of chest pain score accelerated diagnostic pathway (EDACS-ADP). <i>Emerg Med J.</i> 2016;33(9):618-25.
Journal	Furyk JS, Chu K , Banks C, Greenslade J , Keijzers G, Thom O, et al. Distal Ureteric Stones and Tamsulosin: A Double-Blind, Placebo-Controlled, Randomized, Multicenter Trial. <i>Ann Emerg Med.</i> 2016;67(1):86-95.e2.
Journal	Greenslade JH , Beamish D, Parsonage W , Hawkins T , Schluter J , Dalton E , Parker K , Than M, Hammett C , Lamanna A, Cullen L . Relationship Between Physiological Parameters and Acute Coronary Syndrome in Patients Presenting to the Emergency Department With Undifferentiated Chest Pain. <i>J Cardiovasc Nurs.</i> 2016;31(3):267-73.
Journal	Greenslade JH , Parsonage W , Than M, Scott A, Aldous S, Pickering JW, Hammett CJ , Cullen L . A Clinical Decision Rule to Identify Emergency Department Patients at Low Risk for Acute Coronary Syndrome Who Do Not Need Objective Coronary Artery Disease Testing: The No Objective Testing Rule. <i>Ann Emerg Med.</i> 2016;67(4):478-89.e2. Hyun KK, Essue BM, Woodward M, Jan S, Brieger D, Chew D, Nallaiah K, Howell T, et al. The household economic burden for acute coronary syndrome survivors in Australia. <i>BMC health services research.</i> 2016;16(1):636.
Journal	Iliceto A, Berndt SL, Greenslade JH , Parsonage WA , Hammett C, Than M, Hawkins T , Parker K , O'Kane S, Cullen L. Agreement Between Patient-reported and Cardiology-adjudicated Medical History in Patients With Possible Ischemic Chest Pain: An Observational Study. <i>Crit Pathw Cardiol.</i> 2016;15(3):121-5.
Journal	Jin H, Greenslade JH , Parsonage WA , Hawkins T , Than M, Cullen L . Does a uric acid level provide additional risk stratification information in emergency patients with symptoms of possible acute coronary syndrome? <i>Crit Pathw Cardiol.</i> 2016;15(4):169-73.
Journal	Johnston A, Abraham L, Greenslade J , Thom O, Carlstrom E, Wallis M, et al. Review article: Staff perception of the emergency department working environment: Integrative review of the literature. <i>Emerg Med Australas.</i> 2016;28(1):7-26.
Journal	Lukin B , Fan LJ, Zhao JZ, Sun JD, Dingle K, Purtill R , Tapp S , Hou X. Emergency department use among patients from residential aged care facilities under a Hospital in the Nursing Home scheme in public hospitals in Queensland Australia. <i>World J Emerg Med.</i> 2016;7(3):183-90.
Journal	Martin SP, Chu KH , Mahmoud I , Greenslade JH , Brown AF . Double-dorsal versus single-volar digital subcutaneous anaesthetic injection for finger injuries in the emergency department: A randomised controlled trial. <i>Emerg Med Australas.</i> 2016;28(2):193-8. Martin-Sanchez FJ, Christ M, Miro O, Peacock WF, McMurray JJ, Bueno H, Maisel AS, Cullen L , et al. Practical approach on frail older patients attended for acute heart failure. <i>Int J Cardiol.</i> 2016;222:62-71
Journal	Meek R, Braitberg G, Cullen L , Than M, Graudins A, Glynn D. Outcome at 30 days for low-risk chest pain patients assessed using an accelerated diagnostic pathway in the emergency department. <i>Emerg Med Australas.</i> 2016;28(3):279-86.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Neumann JT, Sorensen NA, Schwemer T, Ojeda F, Bourry R, Sciacca V, Schaefer, S, Waldeyer C, Sinning C, Renne T, Than, M, Parsonage W , Wildi K, Makarova N, Schnabel RB, Landmesser U, Mueller C, Cullen L , Greenslade J , Zeller T, Blankenberg, S, Karakas M, Westermann D. Diagnosis of Myocardial Infarction Using a High-Sensitivity Troponin I 1-Hour Algorithm. <i>JAMA Cardiol.</i> 2016;1(4):397-404
Journal	Parsonage WA , Mueller C, Greenslade JH , Wildi K, Pickering J, Than M, Aldous S, Boeddinghaus J, Hammett CJ , Hawkins T , Nestelberger T, Reichlin T, Reidt S, Rubin Gimenez M, Tate JR, Twerenbold R, Ungerer JP, Cullen L . Validation of NICE diagnostic guidance for rule out of myocardial infarction using high-sensitivity troponin tests. <i>Heart (British Cardiac Society).</i> 2016;102(16):1279-86.
Journal	Pickering JW, Greenslade JH , Cullen L , Flaws D , Parsonage W , Aldous S, et al. Assessment of the European Society of Cardiology 0 Hour/1 Hour Algorithm to Rule Out and Rule In Acute Myocardial Infarction. <i>Circulation.</i> 2016;134(20):1532-41.
Journal	Pickering JW, Greenslade JH , Cullen L , Flaws D , Parsonage W , George P, et al. Validation of presentation and 3 h high-sensitivity troponin to rule-in and rule-out acute myocardial infarction. <i>Heart (British Cardiac Society).</i> 2016;102(16):1270-8.
Journal	Richardson PG , Greenslade J , Isoardi J, Davey M, Gillett M, Tucker A, et al. End-of-life issues: Withdrawal and withholding of life-sustaining healthcare in the emergency department: A comparison between emergency physicians and emergency registrars: A sub-study. <i>Emerg Med Australas.</i> 2016;28(6):684-90.
Journal	Richardson PG , Widdecombe N , Mahmoud I . End-of-Life-Issues: Withdrawal and/or Withholding of Life Sustaining Health Care: A Comparison between Emergency Physicians and Intensive Care Specialists. <i>J Emerg Med Int Care.</i> 2016;2(2):111.
Journal	Ryan K , Greenslade J , Dalton E , Chu K , Brown AF , Cullen L . Factors associated with triage assignment of emergency department patients ultimately diagnosed with acute myocardial infarction. <i>Aust Crit Care.</i> 2016;29(1):23-6.
Journal	Staib A, Sullivan C, Griffin B, Bell A , Scott I. Report on the 4-h rule and National Emergency Access Target (NEAT) in Australia: time to review. <i>Aust Health Rev.</i> 2016;40(3):319-23.
Journal	Than MP, Pickering JW, Aldous SJ, Cullen L , Frampton CM, Peacock WF, et al. Effectiveness of EDACS Versus ADAPT Accelerated Diagnostic Pathways for Chest Pain: A Pragmatic Randomized Controlled Trial Embedded Within Practice. <i>Ann Emerg Med.</i> 2016;68(1):93-102.e1
Journal	Williams JM , Greenslade JH , Chu K , Brown AF , Lipman J . Severity Scores in Emergency Department Patients With Presumed Infection: A Prospective Validation Study. <i>Crit Care Med.</i> 2016;44(3):539-47.
Journal	Young JM, Pickering JW, George PM, Aldous SJ, Wallace J, Frampton CM, Troughton RW, Richards MA, Greenslade JH , Cullen L , Than MP. Heart Fatty Acid Binding Protein and cardiac troponin: development of an optimal rule-out strategy for acute myocardial infarction. <i>BMC Emerg Med.</i> 2016;16(1):34.
Journal	Skoien W , Page K, Parsonage W , Ashover S , Milburn T , Cullen L . Use of the Theoretical Domains Framework to evaluate factors driving successful implementation of the Accelerated Chest pain Risk Evaluation (ACRE) project. <i>Implementation Science.</i> 2016;11:136.
Journal	Mountain D, Keijzers G, Chu K , Joseph A, Read C, Blecher G, et al. RESPECT-ED: Rates of Pulmonary Emboli (PE) and Sub-Segmental PE with Modern Computed Tomographic Pulmonary Angiograms in Emergency Departments: A Multi-Center Observational Study Finds Significant Yield Variation, Uncorrelated with Use or Small PE Rates. <i>PLoS One.</i> 2016;11(12):e0166483.
Journal	Brown AFT , Zia M , Symons P , Moore N . You two - there must be some mistake! <i>Emerg Med Australas.</i> 2016;28(6):758
Journal	Barnard A, Hou XY, Lukin B . Director of nursing experiences of a hospital in the nursing home program in South East Queensland. <i>Collegian.</i> 2016;23(4):341-8. Douglas C, Lukin B . My Life-My Death. <i>Narrat Inq Bioeth.</i> 2016;6(2):77-8.
Journal	Sullivan C, Staib A, Khanna S, Good NM, Boyle J, Cattell R, Heiniger L, Griffin BR, Bell AJ , et al. The National Emergency Access Target (NEAT) and the 4-hour rule: time to review the target. <i>Med J Aust.</i> 2016;204(9):354.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Bodnar D , Bosley E, Rashford S. The introduction of a pre-hospital intranasal fentanyl drug therapy protocol increases the proportion of children receiving opioid analgesia for traumatic injuries. 12th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. May, 2016
Poster	Bodnar D , Rashford S, Handy M , Bosley E. Trauma ultrasound in the pre-hospital environment (TUPHEN Study). 12 th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. May, 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Coulthard LG, Hewson A, Symons PE, Hamilton A, Wall D, Lipp T. Identifying Trauma Patients at Risk of Missed Injury in the Emergency Department. Australasian College for Emergency Medicine 33rd Annual Scientific Meeting; Queenstown, New Zealand. 20-24 November, 2016
Poster	Hawkins T, Greenslade J, Van Hise C, Williams J, Berndt SL, Dalton E, Cho E, Hills A, Williamson E, Flannery M., Jensen M, Collins R, Wynne P, Rickard C, Cullen L. Cannulation rates in the emergency department intervention trial (CREDIT). Australasian College for Emergency Medicine 33rd Annual Scientific Meeting; Queenstown, New Zealand. 20-24 November, 2016
Poster	Hewson A, Coulthard LG, Symons PE, Hamilton A, Wall D, Lipp T. Emergency Trauma Clinical Decisions in Imaging Pathways. Australasian College for Emergency Medicine 33rd Annual Scientific Meeting; Queenstown, New Zealand. 20-24 November, 2016
Poster	Iliceto A, Berndt SL, Greenslade JH, Parsonage WA, Hammett C, Than M, Hawkins T, Parker K, O'Kane S, Cullen L. Agreement Between Patient-reported and Cardiology-adjudicated Medical History in Patients With Possible Ischemic Chest Pain: An Observational Study. Ochsner Clinical School 13th Annual Research Day; New Orleans, USA. 17 May, 2016
Poster	Milburn T, Ashover S, Skoien W, Parsonage W, Greenslade J, Bright S, Cullen L. Economic Impact of the Accelerated Chest Pain Risk Evaluation (ACRE) Project - A Large Scale Implementation of the ADAPT Accelerated Diagnostic Protocol into Clinical Practice. Cardiac Society of Australia and New Zealand 64th Annual Scientific Meeting and the International Society for Heart Research Australasian Section Annual Scientific Meeting; Adelaide, Australia. 4-7 August, 2016
Poster	Neumann JT, Sorensen N, Schwemer T, Ojeda F, Keller T, Renne T, Than M, Parsonage W, Schnabel R, Cullen L, Greenslade J, et al. Rapid measurement of a single troponin I combined with negative ECG allow accurate ruleout of NSTEMI in patients with suspected AMI. European Society of Cardiology Congress; Rome, Italy. 27-31 August, 2016
Poster	Skoien W, Ashover S, Milburn T, Page K, Cullen L, Parsonage W. Research Translation: Implementation Evaluation of the Queensland Accelerated Chest Pain Risk Evaluation (ACRE) Project. Cardiac Society of Australia and New Zealand 64th Annual Scientific Meeting and the International Society for Heart Research Australasian Section Annual Scientific Meeting; Adelaide, Australia. 4-7 August, 2016
Poster	Brown AFT. How to get published. Building your medical career through research: doctors in training, AMA Queensland; Brisbane, Australia. March, 2016
Poster	Brown AFT. Unexpected alternate emergency department diagnoses in two patients with HAE with normal C1INH (HAE type III). 2016 Global Forum for Hereditary Angiodema; Warsaw, Poland. November, 2016
Poster	Holley A, Brown AFT. Trauma Scenarios - Small group, all-day workshop. Current Concepts in Critical Care Course; RBWH Brisbane, Australia. December, 2016
Oral	Lancini D, Martin P, Cullen L, Greenslade J, Hammett C, Prasad S, Than M, Parsonage W. Prognostic impact of atrial fibrillation in the emergency chest pain presentation. Cardiac Society of Australia & New Zealand ASM; Adelaide. 4-7 August, 2016
Oral	Milburn T, Ashover S, Skoien W, Cullen L, Greenslade J, Parsonage W. A large scale implementation of the ADAPT Accelerated Diagnostic Protocol into clinical practice in Queensland: Impact on hospital length of stay and admission rates for possible cardiac chest pain. Cardiac Society of Australia and New Zealand 64th Annual Scientific Meeting and the International Society for Heart Research Australasian Section Annual Scientific Meeting; Adelaide, Australia. 4-7 August, 2016
Oral	Neumann JT, Sorensen NA, Ojeda F, Schwemer T, Keller T, Renne T, Landmesser U, Clemmensen P, Schnabel R, Zeller T, Karakas M, Than M, Parsonage W, Greenslade J, Cullen L, Blankenberg S, Westermann D. Immediate Rule-out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-sensitivity Troponin I. European Society of Cardiology Congress; Rome, Italy. 27-31 August, 2016
Oral	Chu K (presented by Moriarty S), Howell T, Keijzers G, Furyk J, Eley R, Kinnear F, et al. Characteristics and diagnosis of patients representing to the emergency department with a headache. Australasian College for Emergency Medicine 33rd Annual Scientific Meeting; Queenstown, New Zealand. 20-24 November, 2016
Oral	Cullen L. Are we overdiagnosing myocardial infarction? Preventing Overdiagnosis; Barcelona, Spain. 20-22 September, 2016
Oral	Brown AFT. Anaphylaxis and angioedema: An update. 12th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. May, 2016
Oral	Brown AFT, Burkett E, Tilleard J, Friestlich H, Furyk J, Banks C, et al. Evidence and Eminence: Panel Discussion of the latest literature. 12th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. May, 2016
Invited	Lukin B. End of life care conversations. Nurses in Management - Aged Care (NIMAC) Conference; Benowa, Queensland. 1-3 June, 2016 (Invited)
Invited	Lukin B. Advance care planning. Advance Care Planning National Forum; Auckland, New Zealand. 28-29 November, 2016 (Invited)
Invited	Lukin B. Aged care to ED: what are we missing? End Of Life Care Improvement Group Workshop The Health Roundtable; Sydney, Australia. 6-7 April, 2016 (Invited)

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Lukin B. Communication and palliation in the ED. Integrated Emergency Care for Older Persons Summit; Melbourne, Australia. 26-28 October, 2016 (Invited)
Invited	Lukin B. Palliative Care in the Emergency Department. 12th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. May, 2016 (Invited)
Invited	Cullen L. National Heart Foundation of Australia (NHFA) and Cardiac Society of Australia and New Zealand (CSANZ): Australian clinical guidelines for the management of acute coronary syndromes. Australasian College for Emergency Medicine 33 rd Annual Scientific Meeting; Queenstown, New Zealand. 20-24 November, 2016 (Invited)
Invited	Cullen L. Troponins and rule out in 2016 (Masterclass). Emergency Medicine Core Knowledge (EMCORE) conference; Fiji. 27-29 September, 2016 (Invited)
Invited	Cullen L. Troponins and rapid rule out. Emergency Medicine Core Knowledge (EMCORE) conference; Melbourne, Australia. 4-5 June, 2016 (Invited)
Invited	Cullen L. One arrhythmia you must know. Emergency Medicine Core Knowledge (EMCORE) conference; Melbourne, Australia. 4-5 June, 2016 (Invited)

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Radiation Oncology	43	5	17	12

There were an additional 14 papers accepted for publication in 2016 (online ahead of print) that are not reported in this list. These will be reported for 2017, as they become published in print.



Department of Hyperbaric Medicine Services

The hyperbaric unit at the RBWH is currently involved in four active projects, two in collaboration with QIMR and one in collaboration with eight other facilities across Australia and New Zealand.

The current areas of research include the use of hyperbaric oxygen therapy (HBOT) in patients with xerostomia secondary to radiation therapy (currently being written). The use of hyperbaric oxygen therapy as an adjunct in the treatment of venous leg ulcers (a double blinded RCT, submitted for publication). Transcutaneous oximetry measurements of the leg: comparing different measuring equipment and establishing values in healthy young adults (submitted awaiting publication) and the effect of HBOT on genomics of oral flora in patients with xerostomia (currently being written in collaboration with QIMR and funded by an ANZCA Project Grant).

In addition we have been studying the incidence of central nervous system oxygen toxicity (CNSOT) between units who utilise different treatment tables at 14m to avoid CNSOT (quality assurance study with QIMR, data being analysed at present).

The use of HBOT in idiopathic sudden sensorineural hearing loss (ISSHL) is another important area of research we are leading. At present we are designing a study for a multicentre randomised control trial after completing and publishing a pilot study using retrospective outcome data in 2016. The RBWH treats more patients with ISSHL than any other facility across NZ or Australia due to the referral practices of the ENT surgeons. The variations in practise across Australia and New Zealand reflect the poor evidence base for its use. However there is increasing evidence that HBOT is an effective treatment and both the US and European professional societies have added ISSHL to the indications list for HBOT. Our pilot study, published in Sept 2016 added to this research, however there are presently no prospective RCTs to support its use and we wish to address this inconsistency to approach nationwide based on best evidence.

Hearing loss is a devastating disease which has significant impact on the quality of a patient's life. The therapeutic temporal window is narrow, meaning many patients are referred too late for intervention to be successful. It is currently treated with steroids alone (despite poor evidence for steroids) and HBOT often not considered despite the increase in published literature. HBOT is unfunded as a therapy due to the lack of robust RCTs which impacts on availability to patients. The pilot study we published helps increase the argument for high quality trials in this area.

The results from the double blinded RCT indicate a statistical and clinically significant algorithm for the treatment of chronic (> 3 months) venous leg ulcers which demonstrate periwound hypoxia. The intervention group demonstrated a 95% reduction in wound size compared with 54% reduction in the control group ($p=0.05$). HBO2 can improve refractory healing in venous leg ulcers, however patient selection is important. Prior to use of adjunct treatments such as HBO2, patients with refractory leg ulcers need to establish their response to evidence-based treatment. In this study, HBO2 as an adjunct treatment for patients not responding to evidence-based care returned indolent venous leg ulcers to a healing trajectory.

Transcutaneous oxygen measurement (TCOM) provides a direct measure of the amount of oxygen diffusing through the skin to the probe surface and an indirect measure of the microvasculature beneath the probe. A common definition of normoxia is defined as a TCOM value greater than 40mm Hg. The literature describes variation around this figure and variation between models of equipment. In this study, in healthy young volunteers, lower limb TCOM measurements using different Radiometer TCOM machines are comparable. Normal lower limb TCOM values were greater than 40 mmHg, the current definition of hypoxia, and therefore provide support for the ongoing use of this definition.

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Susannah Sherlock (Hyperbaric Med)	Alexis Tabah (Redcliffe ICU) Mandy Way (QIMR Berghofer Biostatistics)	Audit of practise of Australian hyperbaric units in prevention of central nervous system oxygen toxicity.

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Susannah Sherlock (Hyperbaric Med)	David Reid (QIMR Berghofer)	Effect of Hyperbaric on xerostomia trial (HOTRIX): effect on genomics of oral micro flora.

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Hyperbaric oxygen therapy in the treatment of sudden sensorineural hearing loss: a retrospective analysis of outcomes. Sherlock S, Thistlethwaite K, Khatun M, Perry C, Tabah A. Diving Hyperb Med. 2016 Sep;46(3):160-165.
Journal Article	Inappropriate care in medicine. Sherlock S. Med J Aust. 2016 Feb 1;204(2):70-70e1.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Publication information (RBWH staff in bold)
Invited Speaker	S Sherlock Inappropriate care: Analysis of the Grattan Institute report. Australian Orthopaedic Assoc (QLD branch) ASM Gold Coast April 2016
Oral speaker	S Sherlock Hyperbaric, Ethics and evidence based medicine. ANZCA ASM Auckland NZ May 2016
Oral speaker	S Sherlock Ethics and Research SPUMS ASM Bali May 2016
Oral speaker	S Sherlock Brisbane Idiopathic sudden sensorineural hearing loss outcomes at RBWH. ENT Assoc Journal Club April 2016
Invited Speaker	K Thistlethwaite Chronic non healing wounds, repetitive ischaemic reperfusion injury and hyperbaric oxygen therapy. Mechanistic influences. National HBO conference in China 22nd – 24th Oct 2016.
Invited Speaker	K Thistlethwaite Effectiveness of Hyperbaric Oxygen Therapy for management of Chronic Venous Leg Ulcers – A multi-centred double blinded, randomised, control trial. National HBO conference in China 22nd – 24th Oct 2016.
Invited Speaker	K Thistlethwaite Chronic non healing wounds, repetitive ischaemic reperfusion injury and hyperbaric oxygen therapy. Mechanistic influences. HTNA's 24th Annual Scientific Conference on Diving and Hyperbaric Medicine. Hamilton Island Aug 2016.
Invited Speaker	K Thistlethwaite Effectiveness of Hyperbaric Oxygen Therapy for management of Chronic Venous Leg Ulcers – A multi-centred double blinded, randomised, control trial. HTNA's 24th Annual Scientific Conference on Diving and Hyperbaric Medicine. Hamilton Island Aug 2016.
Poster	K Thistlethwaite Effectiveness of Hyperbaric Oxygen Therapy for management of Chronic Venous Leg Ulcers – A multi-centred double blinded, randomised, control trial. The 5th Congress of the World Union of Wound Healing Societies, September 25-29, 2016 in Florence, Italy.

Intensive Care Services

In 2016 the Intensive Care Unit research team had 34 studies on the books which included collaborations with local University and other hospital health district services, national and international collaborators. We subsequently reviewed 18 new study proposals presented to the research group for our standard peer review process of proposed research activities.

As a follow on from above, we are continuing to publish a significant number of peer-reviewed papers, over 50 per year now for many years.

2016 also saw the completion of the SMARRT (SaMpling Antibiotics in Renal Replacement Therapy) study, an international study examining renal replacement therapy and antibiotic dosing in 48 ICUs across the world. Final samples were collected and transported to the Burns Trauma Critical Care Research Centre (BTCCRC) for analysis. Data cleaning on over 350 patient data sets was performed by our ICU project team and antibiotic levels are being measured by the BTCCRC lab staff.

A major achievement this year has been the obtaining of a successful NHMRC Grant to conduct a world-wide study on comparing bolus dosing beta-lactam antibiotics vs continuous infusion (BLING). The BLING team of Professors Lipman and Roberts, Dr's Dulhunty and Cotta were successful in winning the Grant to take the BLING body of work to the next phase of an international 7000 participant study, BLING II having been completed and published recently.

Continuing on with our formal collaboration with The University of Queensland, funding from UQ was granted to develop an International Pharmacokinetic Centre with a dedicated project manager. We see this as an exciting opportunity and will use this to facilitate the introduction and management of European studies within Australia. The aim of this new role will be to enhance the current ties and provide a point of communication for leading European studies across Australia, all lead by RBWH.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nilesh Kumta	MBBS UQ	OASES EVD sampling for antibiotics HREC/16/ QRBW/157	Jason Roberts
Joshua Sheehy		TASTE HREC/15/QRBW/372	W Thomas/ J Lipman
Dr Claire Roger	PhD UQ	AMINO III	Jason Roberts

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Position	Research Program	University (years)
Joel Dulhunty	Fellow		
Therese Starr	Temporary	Nurse Manager – Research	
Melissa Lassig-Smith	Temporary	Senior Research Coordinator	
Janine Stuart	Temporary	Senior Research Coordinator	
Jenie Butler	Permanent	Research Coordinator	
Amelia Livermore	Temporary	Research Coordinator	

Current Research Group / Department Led Research Activity

Service Line Lead Researchers	Collaborative Researchers	Research Project Title
Jeffrey Lipman	O Cotta/J Roberts (Pharmacy)	Benzylpenicillin HREC/15/QRBW/31
Judith Bellapart		ENDOTHELIN 1 HREC/14/QRBW/4
Os Cotta		LEVETY HREC/16/QRBW/154
Judith Bellapart		Melatonin
Anthony Holley		Microscan HREC/08/QRBW/112
Lisa Wang	J Roberts/Burns unit	LINC B
Kerina Denny	J Lipman	RESIST HREC/15/QRBW/28
Jason Roberts	J Lipman	SMARRT
Jeffrey Lipman	W Thomas/ J Sheehey	TASTE HREC/15/QRBW/372
Judith Bellapart	GCUH ICU	TAPAS (Multicentre Endothelin)
Jeremy Cohen		TBI Study
Jeremy Cohen/ Gladness Nethathe		The free cortisol response to synacthen and other aspects of endocrine physiology in healthy participants

Research Awards and Achievements

Recipient	Award	Event
Paratz J.	Outstanding Leadership in Allied Health Research, Learning and Innovation – Metro North.	
Read MC	Clasp '2' to the Australian Defence Force Operational Service Medal (Greater Middle East Area of Operations).	

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Ryan R, Christensen R, Jackson D, Roberts JA		Does Cefazolin Prophylaxis During Bariatric Surgery Achieve Therapeutic Concentration in Plasma & Interstitial Fluid	ANZCA Project Grant		\$34,059
Lipman J, Roberts JA, Myburgh J, Peake S, Dulhunty J, Paterson D, McGuinness S, Rhodes A, de Waele J, Finfer S		BLING III: A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent betalactam dosing in critically ill patients	NHMRC Project Grant		\$3,269,942
Roberts JA		Redefining antibiotic dosing to reduce bacterial resistance	NHMRC Practitioner Fellowship		\$474,512
Parker S, Roberts JA		Using a drop of blood to optimise antibiotic dosing in infants and children	Ian Potter Medical Research Grant		\$39,500
Roberts JA		A prospective observational pharmacokinetic evaluation of the plasma and cerebrospinal fluid concentrations of a single dose ceftolozane/tazobactam in infected critically ill patients with an indwelling external ventricular drain	Merck Sharpe & Dohme		\$110,215

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Roberts JA		An observational pharmacokinetic study of ceftolozane-tazobactam in intensive care unit patients with and without continuous renal replacement therapy	Merck Sharpe & Dohme		\$225,000
Roberts JA		Single dose population PKs of intravenous Posaconazole in critically ill patients	Merck Sharpe & Dohme		\$77,752
Lipman J		Building Pharmacokinetic and Clinical Trial Capacity at the Herston Campus	UQ Strategic Funding		\$1,883,719
Roberts JA , Roger C		Screening Anti-Fungal Exposure in Intensive Care Units: the SAFE-ICU study	RBWH & RBWH Foundation Research Grants		\$40,000
Lipman J , Parker S, Dorofaeff T		Implementing microsampling into clinical pharmacokinetic research studies - it only takes a drop of blood!	Implementing microsampling into clinical pharmacokinetic research studies - it only takes a drop of blood!		\$40,000
Christensen R, Eley V, Ryan R, Jackson D, Van Zundert A, Roberts JA , Lipman JA		Does Routine Antibiotic Administration in Overweight Women Having Elective Caesarean Section Achieve Therapeutic Levels?	Does Routine Antibiotic Administration in Overweight Women Having Elective Caesarean Section Achieve Therapeutic Levels?		\$40,000
Nethathe G		Aspects of the neuroendocrine stress response in patients with severe sepsis or multi-trauma	Aspects of the neuroendocrine stress response in patients with severe sepsis or multi-trauma		\$70,000
Shaban R, McCarthy A, Coyer F , Theobald K, Fox R, Henderson A, Thompson B		Enhancing postgraduate professional learning in the infection control speciality.	Enhancing postgraduate professional learning in the infection control speciality.		\$15,000

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Abdul-Aziz MH, Abd Rahman AN, Mat-Nor MB, Sulaiman H, Wallis SC, Lipman J , Roberts JA , Staatz CE. Population Pharmacokinetics of Doripenem in Critically Ill Patients with Sepsis in a Malaysian Intensive Care Unit. <i>Antimicrob Agents Chemother.</i> 2016 Oct 19;60(1):206-14.
Journal Article	Abdul-Aziz MH, Lipman J , Akova M, Bassetti M, De Waele J, Dimopoulos G, Dulhunty J , Kaukonen K-M, Koulenti D, Martin C, Montravers P, Rello J, Rhodes A, Starr T , Wallis S, Roberts JA , on behalf of the DALI study authors. Is prolonged infusion of piperacillin/tazobactam and meropenem in critically ill patients associated with improved patient outcomes? An observation from the Defining Antibiotic Levels in Intensive care unit patients (DALI) cohort. <i>J Antimicrob Chemother.</i> 2016 Jan;71(1):196-207.
Journal Article	Abdul-Aziz MH, Sulaiman H, Mat-Nor MB, Rai V, Wong KK, Hasan MS, Rahman AA, Jamal JA, Wallis SC, Lipman J , Staatz CE, Roberts JA . Beta-Lactam Infusion in Severe Sepsis (BLISS): a prospective, two-centre, open-labelled randomised controlled trial of continuous versus intermittent beta-lactam infusion in critically ill patients with severe sepsis. <i>Intensive Care Med.</i> 2016 Oct;42(10):1535-45.
Journal Article	Adsett J, Morris N, Kuys S, Hwang R, Mullins R, Khatun M, Paratz J , Mudge A. Aquatic Exercise Training is Effective in Maintaining Exercise Performance in Trained Heart Failure Patients: A Randomised Crossover Pilot Trial. <i>Heart Lung Circ.</i> 2016; S1443-9506(16) 31691-2.
Journal Article	Alobaid AS, Brinkmann A, Frey OR, Roehr AC, Luque S, Grau S, Wong G, Abdul-Aziz MH, Roberts MS, Lipman J , Roberts JA . What is the effect of obesity on piperacillin and meropenem trough concentrations in critically ill patients? <i>J Antimicrob Chemother.</i> 2016 Mar;71(3):696-702.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Alobaid AS, Hites M, Lipman J , Taccone FS, Roberts JA . Effect of obesity on the pharmacokinetics of antimicrobials in critically ill patients: A structured review. <i>Int J Antimicrob Agents</i> . 2016 Apr;47(4):259-68.
Journal Article	Alobaid AS, Wallis SC, Jarrett P, Starr T, Stuart J, Lassig-Smith M, Ordóñez Mejia JL, Roberts MS, Lipman J , Roberts JA . Effect of Obesity on the Population Pharmacokinetics of Meropenem in Critically Ill Patients. <i>Antimicrob Agents Chemother</i> . 2016 Jul 22;60(8):4577-84.
Journal Article	Alobaid AS, Wallis SC, Jarrett P , Starr T , Stuart J , Lassig-Smith M , Mejia JL, Roberts MS, Sinnollareddy MG, Roger C, Lipman J , Roberts JA . Effect of Obesity on the Population Pharmacokinetics of Fluconazole in Critically Ill Patients. <i>Antimicrob Agents Chemother</i> . 2016 Oct 21;60(11):6550-6557.
Journal Article	Bandeshe H , Boots R , Dulhunty J , Dunlop R , Holley A , Jarrett P , Gomersall CD, Lipman J , Lo T, O'Donoghue S , Paratz J , Paterson D, Roberts JA , Starr T , Stephens D, Stuart J , Thomas J, Udy A, White H. Is inhaled prophylactic heparin useful for prevention and Management of Pneumonia in ventilated ICU patients?: The IPHIVAP investigators of the Australian and New Zealand Intensive Care Society Clinical Trials Group. <i>J Crit Care</i> . 2016 Aug;34:95-102.
Journal Article	Barbier F, Lipman J , Bonten MJ. In 2035, will all bacteria be multidrug-resistant? No. <i>Intensive Care Med</i> . 2016 Dec;42(12):2017-2020.
Journal Article	Bellapart J , Abi-Fares C, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, Paratz J , Boots R , Fraser JF. Cerebral microcirculation during mild head injury after a contusion and acceleration experimental model in sheep. <i>Brain Inj</i> . 2016;30(13-14):1542-1551.
Journal Article	Bellapart J , Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, Paratz J , Boots R , Fraser J. Cerebral microcirculation during experimental normovolaemic anaemia. <i>Front Neurol</i> . 2016 Feb 2;7:6.
Journal Article	Bellapart J , Roberts JA , Appadurai V, Wallis SC, Nuñez-Nuñez M, Boots RJ. Pharmacokinetics of a novel dosing regimen of oral melatonin in critically ill patients. <i>Clin Chem Lab Med</i> . 2016 Mar;54(3):467-72.
Journal Article	Bergen PJ, Bulitta JB, Kirkpatrick CM, Rogers KE, McGregor MJ, Wallis SC, Paterson DL, Lipman J , Roberts JA , Landersdorfer CB. Effect of different renal function on antibacterial effects of piperacillin against <i>Pseudomonas aeruginosa</i> evaluated via the hollow-fibre infection model and mechanism-based modelling. <i>J Antimicrob Chemother</i> . 2016 Sep;71(9):2509-20.
Journal Article	Bissett B, Green M, Marzano V, Byrne S, Leditschke IA, Neeman T, Boots R , Paratz J . Reliability and utility of the Acute Care Index of Function in intensive care patients: An observational study. <i>Heart Lung</i> . 2016 Jan-Feb;45(1):10-4.
Journal Article	Bissett BM, Leditschke IA, Neeman T, Boots R , Paratz J . Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial. <i>Thorax</i> . 2016 Sep;71(9):812-9
Journal Article	Boots R , Bandeshe H , Dulhunty J , Dunlop R , Holley A , Jarrett P , Gomersall C, Lipman J , Lo T, O'Donoghue S , Paratz J , Patterson D, Roberts J , Stevens D, Stuart J , Thomas J, Udy A , White H. Inhaled Prophylactic Heparin Useful for Prevention and Management of Pneumonia in Ventilating ICU Patients? <i>J Crit Care</i> . 2016 Aug;34:95-102.
Journal Article	Campbell J, Coyer F , Osborne S. The skin safety model: Reconceptualizing skin vulnerability in older patients. <i>J Nurs Scholarsh</i> . 2016 Jan;48(1):14-22.
Journal Article	Campbell J, Coyer F , Osborne S, Mudge A, Robertson I. <i>Candida Albicans</i> colonization, continence status and incontinence-associated dermatitis in the acute care setting; A pilot study. <i>International Wound Journal</i> . 2016 Aug 1; doi:10.1111/iwj.12630.
Journal Article	Campbell J, Gosley S, Coleman K, Coyer F . Combining pressure injury and incontinence-associated dermatitis prevalence surveys: An effective protocol? <i>Wound Practice and Research</i> . 2016;24(3):170-77.
Journal Article	Cohen J , Pretorius CJ, Ungerer JP, Cardinal J , Blumenthal A, Presneill J, Gatica-Andrades M, Jarrett P , Lassig-Smith M , Stuart J , Dunlop R , Starr T , Venkatesh B. Glucocorticoid Sensitivity Is Highly Variable in Critically Ill Patients With Septic Shock and Is Associated With Disease Severity. <i>Crit Care Med</i> . 2016 Jun;44(6):1034-41.
Journal Article	Cotta MO , Roberts JA , Lipman J . We need to optimize piperacillin-tazobactam dosing in critically ill patients—but how? <i>Crit Care</i> . 2016 Jun 6;20(1):163.
Journal Article	Cotta MO , Dulhunty JM , Roberts JA , Myburgh J, Lipman J . Should B-lactam antibiotics be administered by continuous infusion in critically ill patients? A survey of Australia and New Zealand intensive care unit doctors and pharmacists. <i>Int J Antimicrob Agents</i> . 2016 Jun;47(6):436-8.
Journal Article	Cristallini S, Hites M, Kabtouri H, Roberts JA , Beumier M, Cotton F, Lipman J, Jacobs F, Vincent JL, Creteur J, Taccone FS. A new regimen for continuous infusion of vancomycin in critically ill patients. <i>Antimicrob Agents Chemother</i> . 2016;60(8):4750-6.
Journal Article	Denny KJ , Cotta MO , Parker SL, Roberts JA , Lipman J . The use and risks of antibiotics in critically ill patients. <i>Expert Opin Drug Saf</i> . 2016 May;15(5):667-78.
Journal Article	Denny KJ , Lipman J . Bugs, genes, and the intensive care unit. <i>J Thorac Dis</i> . 2016 Aug;8(8):E788-90.
Journal Article	Dhanani J , Fraser JF, Chan HK, Rello J, Cohen J , Roberts JA . Fundamentals of aerosol therapy in critical care. <i>Crit Care</i> . 2016 Oct 7;20(1):269.

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Journal Article	Dodds M, Fraser C, Reade M, Lipman J . Use of neostigmine for acute colonic pseudo-obstruction in a patient receiving dexmedetomidine. <i>Crit Care Resusc</i> . 2016 Mar;18(1):59-61.
Journal Article	Donovan ML, Muller MJ, Simpson C, Rudd M, Paratz J . Interim pressure garment therapy (4-6 mmHg) and its effect on donor site healing in burn patients: study protocol for a randomised controlled trial. <i>Trials</i> . 2016 Apr 26;17(1):214
Journal Article	Dorofaeff T, Bandini RM, Lipman J , Ballot DE, Roberts JA , Parker SL. Uncertainty in Antibiotic Dosing in Critically Ill Neonate and Pediatric Patients: Can Microsampling Provide the Answers? <i>Clin Ther</i> . 2016 Sep;38(9):1961-75.
Journal Article	Eley VA, Callaway LK, van Zundert AA, Lipman J , Gallois C. Anaesthetists' experiences with the early labour epidural recommendation for obese parturients: a qualitative study. <i>Anaesth Intensive Care</i> . 2016 Sep;44(5):620-7.
Journal Article	Eley VA, Callaway LK, van Zundert AA, Lipman J , Gallois C. Interpretation of Care Guidelines for Obese Women in Labor: Intergroup Language and Social Identity. <i>J Lang Soc Psychol</i> . 2016;doi:10.1177/0261927x16668564.
Journal Article	Eley V, van Zundert AAJ, Lipman J , Callaway LK. Anaesthetic management of obese parturients: What is the evidence supporting practice guidelines? <i>Anaesth Intens Care</i> 2016;44:552-559
Journal Article	Evans O, Gowardman J , Rabbolini D, McGrail M, Rickard CM. In situ diagnostic methods for catheter related bloodstream infection in burns patients: A pilot study. <i>Burns</i> . 2016 Mar;42(2):434-40.
Journal Article	Farkas A, Daroczi G, Villasurda P, Dolton M, Nakagaki M, Roberts JA . Comparative Evaluation of the Predictive Performances of Three Different Structural Population Pharmacokinetic Models To Predict Future Voriconazole Concentrations. <i>Antimicrob Agents Chemother</i> . 2016 Oct 21;60(11):6806-6812.
Journal Article	Flores O, Stockton K, Roberts JA , Muller MJ, Paratz JD . The efficacy and safety of adrenergic blockade post burn injury: A systematic review and meta-analysis. <i>J Trauma Acute Care Surg</i> . 2016 Jan;80(1):146-55
Journal Article	Gardner A, Gardner GE, Coyer F , Gosby H. Educating for health service reform: Clinical learning, governance and capability – A Case Study Protocol. <i>BMC Nursing</i> . 2016 May 27;15:32.
Journal Article	Garrouste-Orgeas M, Vinatier I, Tabah A , Misset B, Timsit JF. Reappraisal of visiting policies and procedures of patient's family information in 188 French ICUs: a report of the Outcomerea Research Group. <i>Ann Intensive Care</i> . 2016 Dec;6(1):82.
Journal Article	Hanrahan TP, Lipman J, Roberts JA . Antibiotic dosing in obesity: a BIG challenge. <i>Crit Care</i> . 2016 Aug 10;20(1):240
Journal Article	Hines S, Ramsbotham J, Coyer F . Interventions for improving the research literacy of nurses: a systematic review. <i>JBI Database System Rev and Implementation Reports</i> ; 2016 Feb;14(2):256-94.
Journal Article	Higgs AR, Maughon M, Ruland R, Reade MC . Effect of Uniform Design on the Speed of Combat Tourniquet Application: a simulation study. <i>Mil Med</i> . 2016 Aug;181(8):753-5.
Journal Article	Hockey CA, van Zundert A, Paratz JD . Does objective measurement of tracheal tube cuff pressures minimise adverse effects and maintain accurate cuff pressures? A systematic review and meta-analysis. <i>Anaesth & Intensive Care</i> . 2016; 44(5): 560-70
Journal Article	Hodgson CL, Bailey M, Bellomo R, Berney S, Buhr H, Denehy L, Gabbe B, Harrold M, Higgins A, Iwashyna TJ, Papworth R, Parke R, Patman S, Presneill J , Saxena M, Skinner E, Tipping C, Young P, Webb S; Trial of Early Activity and Mobilization Study Investigators. A Binational Multicenter Pilot Feasibility Randomized Controlled Trial of Early Goal-Directed Mobilization in ICU. <i>Crit Care Med</i> . 2016 Jun;44(6):1145-52.
Journal Article	Jager NG, van Hest RM, Lipman J , Taccone F, Roberts JA . Therapeutic drug monitoring of anti-infective agents in critically ill patients. <i>Expert Rev Clin Pharmacol</i> . 2016 Jul;9(7):961-79.
Journal Article	Labeau SO, Rello J, Dimopoulos G, Lipman J , Sarikaya A, Oztürk C, Vandijck DM, Vogelaers D, Vandewoude K, Blot S; EVIDENCE Research Team. The Value of E-Learning for the Prevention of Healthcare-Associated Infections. <i>Infect Control Hosp Epidemiol</i> . 2016 Sep;37(9):1052-9.
Journal Article	McDonald C, Cotta MO , Little PJ, McWhinney B, Ungerer JPJ, Lipman J, Roberts JA . Is high-dose B-lactam therapy associated with excessive drug toxicity in critically ill patients? <i>Minerva Anestesiologica</i> . 2016 Sep;82(9):957-65
Journal Article	Milford EM, Reade MC . Comprehensive Review of Platelet Storage Methods for Use in the Treatment of Traumatic Hemorrhage. <i>Transfusion</i> , 2016;56:S140-S148.
Journal Article	Mitchell M, Coyer F , Kean S, Stone R, Murfield J, Dwan T. Patient, family-centred care interventions within the adult ICU setting: An integrative review. <i>Aust Crit Care</i> . 2016 Nov;29(4):179-193
Journal Article	Mitric G, Udy A, Bandeshe H, Clement P, Boots R . Variable use of amiodarone is associated with a greater risk of recurrence of atrial fibrillation in the critically ill. <i>Crit Care</i> . 2016 Apr 2;20:90
Journal Article	Osthoff M, Siegemund M, Balestra G, Abdul-Aziz MH, Roberts JA . Prolonged administration of B-Lactam antibiotics – a comprehensive review and critical appraisal. <i>Swiss Med Wkly</i> . 2016 Oct 10;146:w14368
Journal Article	Paratz JD, Boots RJ . Dealing with the critical care aftermath: where to from here? <i>J Thorac Dis</i> . 2016 Sep;8(9):2400-2402.

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Journal Article	Parker SL, Dorofaeff T, Lipman J , Ballot DE, Bandini RM, Wallis SC, Roberts JA . Is there a role for microsampling in antibiotic pharmacokinetic studies? <i>Expert Opin Drug Metab Toxicol</i> . 2016 Jun;12(6):601-14.
Journal Article	Parker SL, Guerra Valero YC, Lipman J , Roberts JA , Wallis SC. Effect of time on recovery of plasma microsamples for the quantitative determination of vancomycin. <i>Bioanalysis</i> . 2016 Nov;8(21):2235-2242.
Journal Article	Parker SL, Guerra Valero YC, Roberts DM, Lipman J , Roberts JA , Wallis SC. Determination of Cefalothin and Cefazolin in Human Plasma, Urine and Peritoneal Dialysate by UHPLC-MS/MS: application to a pilot pharmacokinetic study in humans. <i>Biomed Chromatograph</i> . 2016 Jun;30(6):872-9.
Journal Article	Perner A, Gordon AC, De Backer D, Dimopoulos G, Russell JA, Lipman J , Jensen JU, Myburgh J, Singer M, Bellomo R, Walsh T. Sepsis: frontiers in diagnosis, resuscitation and antibiotic therapy. <i>Intensive Care Med</i> . 2016 Dec;42(12):1958-1969.
Journal Article	Playford EG, Lipman J , Jones M, Lau AF, Kabir M, Chen SC, Marriott DJ, Seppelt I, Gottlieb T, Cheung W, Iredell JR, McBryde ES, Sorrell TC. Problematic Dichotomization of Risk for Intensive Care Unit (ICU) – Acquired Invasive Candidiasis: Results Using a Risk – Predictive Model to Categorize 3 Levels of Risk From a Multicentre Prospective Cohort of Australian ICU Patients. <i>Clin Infect Dis</i> . 2016 Dec 1;63(11):1463-1469
Journal Article	Ranganathan D, Naicker S, Wallis SC, Lipman J , Ratnajee SK, Roberts JA . Stability Of Antibiotics For Intraperitoneal Administration In Extraneal 7.5% Icodextrin Peritoneal Dialysis Bags (STAB STUDY). <i>Perit Dial Int</i> . 2016 Jul-Aug;36(4):421-6.
Journal Article	Ranse K, Yates P, Coyer F . End-of-life care practices of critical care nurses: A national cross-sectional survey. <i>Aust Crit Care</i> . 2016 May; 29(2):83-9.
Journal Article	Ranse K, Yates P, Coyer F . Modelling end-of-life care practices: Factors associated with critical care nurse engagement in care provision. <i>Intensive & Crit Care Nurs</i> . 2016;33:42-55.
Journal Article	Reade MC . A military-specific injury scoring system to aid in understanding the Golden Hour. <i>JAMA Surgery</i> . 2016;151(5):491.
Journal Article	Reade MC . Dexmedetomidine: what next? <i>Annals of Translational Medicine</i> . 2016;4(12):247.
Journal Article	Reade MC . Low dose dexmedetomidine for the prophylaxis of perioperative ICU delirium – how much evidence is enough? <i>J Thorac Dis</i> . 2016;8(11):3020-3023.
Journal Article	Reade MC , Bailey M, Bellomo R. Dexmedetomidine and ventilator-free time in patients with agitated delirium – Reply. <i>JAMA</i> . 2016;316(7):773-774.
Journal Article	Reade MC , Eastwood GM, Bellomo R, Bailey M, Bersten A, Cheung B, Davies A, Delaney A, Ghosh A, van Haren F, Harley N, Knight D, McGuinness S, Mulder J, O'Donoghue S, Simpson N, Young P; DahLIA Investigators; Australian and New Zealand Intensive Care Society Clinical Trials Group. Effect of Dexmedetomidine Added to Standard Care on Ventilator-Free Time in Patients With Agitated Delirium: A Randomized Clinical Trial. <i>JAMA</i> . 2016 Apr 12;315(14):1460-8.
Journal Article	Richardson P, Widdicombe N , Abdelmehmoud I. End-of Life-Issues: Withdrawal and/ or Withholding of Life Sustaining Health Care: A Comparison between Emergency Physicians and Intensive Care Specialists. <i>J Emr Med Int Care</i> . 2016;2(2):111.
Journal Article	Ridgeon E, Bellomo R, Myburgh J, Saxena M, Weatherall M, Jahan R, Arawwawala D, Bell S, Butt W, Camsooksai J, Carle C, Cheng A, Cirstea E, Cohen J , Cranshaw J, Delaney A, Eastwood G, Elliott S, Franke U, Gantner D, Green C, Howard-Griffin R, Inskip D, Litton E, Maclsaac C, McCairn A, Mahambrey T, Moondi P, Newby L, O'Connor S, Pegg C, Pope A, Reschreiter H, Richards B, Robertson M, Rodgers H, Shehabi Y, Smith I, Smith J, Smith N, Tilsley A, Whitehead C, Willett E, Wong K, Woodford C, Wright S, Young P. Validation of a classification system for causes of death in critical care: an assessment of inter-rater reliability. <i>Crit Care Resusc</i> . 2016 Mar;18(1):50-4.
Journal Article	Roberts DM, Ranganathan D, Wallis SC, Varghese JM, Kark A, Lipman J , Roberts JA . Pharmacokinetics of intraperitoneal cefalothin and cefazolin in patients being treated for peritoneal dialysis-associated peritonitis. <i>Perit Dial Int</i> . 2016 Jul-Aug;36(4):415-20.
Journal Article	Roberts JA , Taccone FS, Lipman J . Understanding PK/PD. <i>Intensive Care Med</i> . 2016 Nov;42(11):1797-1800.
Journal Article	Roberts JA , Abdul-Aziz MH, Davis JS, Dulhunty JM , Cotta MO , Myburgh J, Bellomo R, Lipman J . Continuous versus intermittent B-Lactam Infusion in Severe Sepsis- A Meta-analysis of Individual Patient Data from Randomized Trials. <i>Am J Respir Crit Care Med</i> . 2016 Sep 15;194(6):681-91.
Journal Article	Roberts JA , Choi GY, Joyn GM, Paul SK, Deans R , Peake S, Cole L, Stephens D, Bellomo R, Turnidge J, Wallis SC, Roberts MS, Roberts DM, Lassig-Smith M , Starr T , Lipman J . SaMplng Antibiotics in Renal Replacement Therapy (SMARRT): an observational pharmacokinetic study in critically ill patients. <i>BMC Infect Dis</i> . 2016 Mar 1;16:103.
Journal Article	Roger C, Muller L, Wallis SC, Louart B, Saissi G, Lipman J , Lefrant JY, Roberts JA . Population pharmacokinetics of linezolid in critically ill patients on renal replacement therapy: comparison of equal doses in continuous venovenous haemofiltration and continuous venovenous haemodiafiltration. <i>J Antimicrob Chemother</i> . 2016 Feb;71(2):464-70.
Journal Article	Roger C, Wallis S, Louart B, Lefrant J-V, Lipman J , Muller L, Roberts JA . Comparison of equal doses of continuous venovenous haemofiltration and haemodiafiltration on ciprofloxacin population pharmacokinetics in critically ill patients. <i>J Antimicrob Chemother</i> . 2016 Jun;71(6):1643-50.

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Journal Article	Roger C, Wallis SC, Muller L, Saissi G, Lipman J , Lefrant JY, Roberts JA . Influence of renal replacement modalities on amikacin population pharmacokinetics in critically ill patients on continuous renal replacement therapy. <i>Antimicrob Agents Chemother.</i> 2016;60(8):4901-9.
Journal Article	Sartelli M, Weber DG, Ruppé E, Bassetti M, Wright BJ, Ansaloni L, Catena F, Coccolini F, Abu-Zidan FM, Coimbra R, Moore EE, Moore FA, Maier RV, De Waele JJ, Kirkpatrick AW, Griffiths EA, Eckmann C, Brink AJ, Mazuski JE, May AK, Sawyer RG, Mertz D, Montravers P, Kumar A, Roberts JA , Vincent JL, Watkins RR, Lowman W, Spellberg B, Abbott IJ, Adesunkanmi AK, Al-Dahir S, Al-Hasan MN, Agresta F, Althani AA, Ansari S, Ansumana R, Augustin G, Bala M, Balogh ZJ, Baraket O, Bhangu A, Beltrán MA, Bernhard M, Biffi WL, Boermeester MA, Brecher SM, Cherry-Bukowiec JR, Buyné OR, Cainzos MA, Cairns KA, Camacho-Ortiz A, Chandy SJ, Che Jusoh A, Chichom-Mefire A, Colijn C, Corcione F, Cui Y, Curcio D, Delibegovic S, Demetrasvili Z, De Simone B, Dhingra S, Diaz JJ, Di Carlo I, Dillip A, Di Saverio S, Doyle MP, Dorj G, Dogjani A, Dupont H, Eachempati SR, Enani MA, Egjee VN, Elmangory MM, Ferrada P, Fitchett JR, Fraga GP, Guessennd N, Giamarellou H, Ghnnam W, Gkiokas G, Goldberg SR, Gomes CA, Gomi H, Guzmán-Blanco M, Haque M, Hansen S, Hecker A, Heizmann WR, Herzog T, Hodonou AM, Hong SK, Kafka-Ritsch R, Kaplan LJ, Kapoor G, Karamarkovic A, Kees MG, Kenig J, Kiguba R, Kim PK, Kluger Y, Khokha V, Koike K, Kok KY, Kong V, Knox MC, Inaba K, Isik A, Iskandar K, Ivatury RR, Labbate M, Labricciosa FM, Laterre PF, Latifi R, Lee JG, Lee YR, Leone M, Leppaniemi A, Li Y, Liang SY, Loho T, Maegele M, Malama S, Marei HE, Martin-Loeches I, Marwah S, Massele A, McFarlane M, Melo RB, Negroi I, Nicolau DP, Nord CE, Ofori-Asenso R, Omari AH, Ordonez CA, Oquidini M, Pereira Júnior GA, Piazza D, Pupelis G, Rawson TM, Rems M, Rizoli S, Rocha C, Sakakhushev B, Sanchez-Garcia M, Sato N, Segovia Lohse HA, Sganga G, Siribumrungwong B, Shelat VG, Soreide K, Soto R, Talving P, Tilsed JV, Timsit JF, Trueba G, Trung NT, Ulrych J, van Goor H, Vereczkei A, Vohra RS, Wani I, Uhl W, Xiao Y, Yuan KC, Zachariah SK, Zahar JR, Zakrisson TL, Corcione A, Melotti RM, Viscoli C, Viale P. Antimicrobials: a global alliance for optimizing their rational use in intra-abdominal infections (AGORA). <i>World J Emerg Surg.</i> 2016 Jul 15;11:33.
Journal Article	Silbert BI, Ho KM, Lipman J , Roberts JA , Corcoran TB, Morgan DJ, Pavey W, Mas E, Barden AE, Mori TA. Determinants of Urinary Output Response to IV Furosemide in Acute Kidney Injury: A Pharmacokinetic/Pharmacodynamic Study. <i>Crit Care Med.</i> 2016 Oct;44(10):e923-9.
Journal Article	Sinnollareddy M, Roberts M, Lipman J , Lassig-Smith M , Starr T , Robertson T, Peake S, Roberts JA . In Vivo Microdialysis To Determine Subcutaneous Interstitial Fluid Penetration and Pharmacokinetics of Fluconazole in Intensive Care Unit Patients with Sepsis. <i>Antimicrob Agents Chemother.</i> 2016 Feb 23;60(2):827-32
Journal Article	Tabah A , Cotta MO , Garnacho-Montero J, Schouten J, Roberts JA , Lipman J , Tacey M, Timsit JF, Leone M, Zahar JR, De Waele JJ; Working Group for Antimicrobial Use in the ICU. A Systematic Review of the Definitions, Determinants, and Clinical Outcomes of Antimicrobial De-escalation in the Intensive Care Unit. <i>Clin Infect Dis.</i> 2016 Apr 15;62(8):1009-17.
Journal Article	Tabah A , Lipman J , Roberts JA. Are new gentamicin dosing guidelines suitable for achieving target concentrations in patients with sepsis and septic shock? <i>Anaesth Crit Care Pain Med.</i> 2016 Oct;35(5):311-312.
Journal Article	Tayyib N, Coyer F . Effectiveness of pressure ulcer prevention strategies for adult patients in intensive care units: A systematic review. <i>Worldview Evid Based Nurs.</i> 2016 Dec;13(6):432-444
Journal Article	Tayyib N, Coyer F , Lewis P. Pressure Injury Prevention in a Saudi Arabian Intensive Care Unit: Registered Nurse Attitudes Toward Prevention Strategies and Perceived Facilitators and Barriers to Evidence Implementation. <i>J Wound Ostomy Continence Nurs.</i> 2016 Jul-Aug;43(4):369-74.
Journal Article	Tayyib N, Coyer F , Lewis P. Saudi Arabian adult intensive care unit pressure ulcer incidence and risk factors: a prospective cohort study. <i>Int Wound J.</i> 2016 Oct;13(5):912-9.
Journal Article	Tayyib N, Coyer F , Lewis P. Implementation of pressure ulcer prevention bundle in an adult intensive care. <i>Intensive and Crit Care Nurs.</i> 2016 Dec;37:27-36.
Journal Article	Tong SY, Nelson J, Paterson DL, Fowler VG Jr, Howden BP, Cheng AC, Chatfield M, Lipman J , Van Hal S, O'Sullivan M, Robinson JO, Yahav D, Lye D, Davis JS; CAMERA2 study group and the Australasian Society for Infectious Diseases Clinical Research Network. CAMERA2 - combination antibiotic therapy for methicillin-resistant Staphylococcus aureus infection: study protocol for a randomised controlled trial. <i>Trials.</i> 2016 Mar 31;17:170.
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC, Lipman J , Roberts JA . Total and unbound ceftriaxone pharmacokinetics in critically ill Australian Indigenous patients with severe sepsis. <i>Int J Antimicrob Agents.</i> 2016 Dec;48(6):748-752.
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC; Lipman J , Roberts JA . Pharmacokinetics of piperacillin in critically ill Australian Indigenous patients with severe sepsis. <i>Antimicrob Agents Chemother.</i> 2016;60(12):7402-7406.
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC, Lipman J , Roberts JA . Optimising meropenem dosing in critically ill Australian Indigenous patients with severe sepsis. <i>Int J Antimicrob Agents.</i> 2016 Nov;48(5):542-546.
Journal Article	Tutticci N, Coyer F , Lewis P, Ryan M. High fidelity simulation: Descriptive analysis of student learning styles. <i>Clin Simul Nurs.</i> 2016;12(11):511-521.
Journal Article	Tutticci N, Lewis P, Coyer F . Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation: A pilot study. <i>Nurse Educ Pract.</i> 2016 May;18:52-9

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Journal Article	Ullman A, Keogh S, Coyer F , Long D, New K, Rickard C. 'True Blood' The Critical Care Story: An audit of blood sampling practice across adult, paediatric and neonatal intensive care settings. <i>Aust Crit Care</i> . 2016 May;29(2):90-5
Journal Article	Van Zyl N, Milford EM , Diab S, Dunster K, McGiffen P, Rayner SG, Reade MC , Fraser JF, Staib A. Activation of the protein C pathway and endothelial glycocalyx shedding is associated with coagulopathy in an ovine model of trauma and hemorrhage. <i>J Trauma Acute Care Surg</i> . 2016;81(4):674-684.
Journal Article	Veringaa A, Sturkenboom M, Dekkers B, Kostera R, Roberts J , Peloquind C, Touwa D, Alfenaara J. LC-MS/MS for Therapeutic Drug Monitoring of anti-infective drugs. <i>TrAC Trends in Analytical Chemistry</i> . 2016; V84 Part B 34-40.
Journal Article	Vermeir J, Holley A , Lipman J . Not Out of the Woods - A Wife's Perspective: Bedside Communication. <i>Intensive Care Med</i> . 2016 Mar;42(3):446-7.
Journal Article	Williams JM, Greenslade JH, Chu K, Brown AF, Lipman J . Severity Scores in Emergency Department Patients With Presumed Infection: A Prospective Validation Study. <i>Crit Care Med</i> . 2016 Mar;44(3):539-47.
Journal Article	Winearls J, Reade MC , Miles H, Bulmer A, Campbell D, Goring K, Fraser J. Targeted Coagulation Management in Severe Trauma: The Controversies and the Evidence. <i>Anesth and Analg</i> . 2016;123(4):910-924.
Journal Article	Woodruff TM, Wu MC, Morgan M, Bain NT, Jeanes A, Lipman J , Ting MJ, Boyd AW, Taylor SM, Coulthard MG. EPHA4-FC treatment reduces ischemia/reperfusion-induced intestinal injury by inhibiting vascular permeability. <i>Shock</i> . 2016 Feb;45(2):184-91.
Journal Article	Zelenitsky SA, Lawson C, Calic D, Ariano RE, Roberts JA , Lipman J , Zhanel GG. Integrated pharmacokinetic-pharmacodynamic modelling to evaluate antimicrobial prophylaxis in abdominal surgery. <i>J Antimicrob Chemother</i> . 2016 Oct;71(10):2902-8.
Journal Article	Zhang L, Gowardman J , Morrison M, Runnegar N, Rickard CM. Microbial biofilms associated with intravascular catheter-related bloodstream infections in adult intensive care patients. <i>Eur J Clin Microbiol Infect Dis</i> . 2016 Feb;35(2):201-5.
Book Chapter	Cohen J . Adrenal Insufficiency. In <i>Oh's Intensive Care Manual 8th Edition</i> . In Press.
Book Chapter	Cohen J . The Genetic Basis of Sepsis. In <i>Oh's Intensive Care Manual 8th Edition</i> . In Press.
Book Chapter	Boots R , Lipman J (2016). Diagnosis, assessment, and management of tetanus, rabies, and botulism. In Webb A, Angus D, Finfer S, Gattinoni L, Singer M (Eds). Chapter 64 <i>Oxford Textbook of Critical Care 2nd</i> . Oxford University Press, Oxford, UK.
Book Chapter	Cotta MO , Roberts JA (2016). Pharmacokinetic and pharmacodynamic principles of antimicrobials. In Laundry M, Gilchrist M, Whitney L (Eds). <i>Antimicrobial Stewardship – A practical guide to the introduction, maintenance and development of an effective program</i> . Oxford University Press, Oxford, UK.
Book Chapter	Denny KJ , Lipman J , Roberts JA . Cephalothin and cefazolin. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). <i>Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs</i> , 7th edition. ASM Press, Washington DC, USA. In Press.
Book Chapter	Finn PC, Reade MC . Bleeding Emergencies. In <i>Rapid Response Systems: A Practical Guide</i> . New York, Oxford University Press USA. In Press.
Book Chapter	Geddes AM, Gould IM, Roberts JA , Grayson ML, Cosgrove SE. Ampicillin and Amoxicillin. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). <i>Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs</i> , 7th edition. ASM Press, Washington DC, USA. In Press.
Book Chapter	Geddes AM, Gould IM, Trubiano JA, Roberts JA , Grayson ML. Benzylpenicillin (Penicillin G). In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). <i>Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs</i> , 7th edition. ASM Press, Washington DC, USA. In Press.
Book Chapter	Geddes AM, Gould IM, Roberts JA . Phenoxypenicillins. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). <i>Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs</i> , 7th edition. ASM Press, Washington DC, USA. In Press.
Book Chapter	Holley A . Management of the Critically Ill Burns Patient. In S Hutchings (Ed). <i>Trauma Et Combat Critical Care in Clinical Practice</i> . In Press.
Book Chapter	Jamal JA, Roberts JA (2016). Aminoglycoside dosing in obesity. In Zaidi STR, Roberts JA (Eds). <i>Drug Dosing in Obesity, Volume 1: Antimicrobials</i> . Springer, Switzerland.
Book Chapter	Jamal JA, Roberts JA (2016). Polyene antifungals. In Zaidi STR, Roberts JA (Eds). <i>Drug Dosing in Obesity, Volume 1: Antimicrobials</i> . Springer, Switzerland.
Book Chapter	Lipman J (2016). Tetanus, rabies, botulism. In Webb AR, Angus D, Finfer S, Gattinoni L (Eds). <i>Oxford Textbook of Critical Care</i> , 2 nd Edition. Oxford UK: Oxford University Press.
Book Chapter	Lipman J . Tetanus. Chapter 54. In AD Bertson, N Soni (Eds). <i>Oh's Intensive Care Manual 8th Edition</i> . Eds Butterworth Heinemann Elsevier. In Press.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Book Chapter	Lipman J. Principles of Antibiotic Use. Chapter 73. In AD Bertson, N Soni (Eds). Oh's Intensive Care Manual 8th Edition. Butterworth Heinemann Elsevier. In Press.
Book Chapter	Mahoney A, Reade MC. Making the best use of simulation training in critical care medicine. In Vincent JL (Ed). Annual Update in Intensive Care and Emergency Medicine 2017. Berlin: Springer-Verlag. In Press.
Book Chapter	Paratz J, Ntoumenopoulos G, Jones A (2016). Management of the Critically Ill Patient. In Denehy L (Ed). Cardiopulmonary Physical Therapy. Churchill Livingstone Elsevier, London.
Book Chapter	Plaza A, Paratz J (2016). Management Acute Burn Patient. In Denehy L (Ed). Cardiopulmonary Physical Therapy, Churchill Livingstone Elsevier, London.
Book Chapter	Reade MC. Chest injury and ventilator strategies following severe traumatic injury. In Hutchings S (Ed). Frontline Critical Care. London, Springer. In Press.
Book Chapter	Reade MC. Kirkman E. Blast lung. In Hutchings S (Ed). Frontline Critical Care. London. Springer. In Press.
Book Chapter	Reade MC. Sedation and Analgesia in the ICU. In Firth J, Conlon C, Cox C (Eds). Oxford Textbook of Medicine. Oxford, Oxford University Press. In Press.
Book Chapter	Reade MC. Advanced cardiovascular support. In Evans C, Creaton A, Kennedy M (Eds). The Oxford Handbook of Retrieval Medicine. Oxford: Oxford University Press. In Press.
Book Chapter	Reade MC (2016). Thoracic Trauma and Management of Ventilation in the Critically Injured Patient. In Hutchings SD (Ed). Trauma and Combat Critical Care in Clinical Practice. London, Springer.
Book Chapter	Reade MC (2016), Kirkman E. Management of Blast Related Injuries. In Hutchings SD (Ed). Trauma and Combat Critical Care in Clinical Practice. London. Springer.
Book Chapter	Sinnollareddy MG, Roberts JA (2016). Pharmacodynamic considerations in critically ill patients. In Rotschafer JC, Andes DR, Rodvold KA (Eds). Antibiotic Pharmacodynamics. Springer, New York.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Faculty	Cohen J. Wellington Final Fellowship Examination Course. New Zealand, 2016.
Oral	Cohen J. The Genetics of Sepsis. ANZICS ASM. Perth, 2016.
Oral presentation	Coyer F, Clark M, Slattery P, Thomas P, McNamara G, Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring pressure and body positioning: A pilot evaluation among critically ill patients. 5th Congress of World Union of Wound Healing Societies. Florence, Italy, September, 2016.
Invited speaker	Coyer F. Invited speaker. Pressure injuries in the critically ill patients – a never ending story? World Federation of Critical Care Nurses Congress. Brisbane, April, 2016.
Invited speaker	Coyer F. Invited speaker. Implementing skin integrity rounds in the intensive care unit. World Federation of Critical Care Nurses Congress, Brisbane, April 2016.
Invited Expert Speaker	Coyer F. Invited Expert Speaker. Incontinence-Associated Dermatitis. WCET World Council of Enterostomal Therapists. Cape Town, South Africa, March 2016.
	Gardner A, Gardner G, Helms C, Gosby H, Coyer F, Cheng H. Clinical learning, governance and capability. 9th International Council of Nurses (ICN) International Nurse Practitioner/Advanced Practice Nursing Network (INP/APNN) Conference. Hong Kong, September 2016.
Oral	Lipman J. SHPA Critical Care Foundation Level Seminar. Brisbane, May 2016.
Invited Speaker	Lipman J. Invited Speaker. ASM/ICAAC Microbe 2016. Boston, June 2016.
Invited Speaker	Lipman J. Invited Speaker. Southern African Critical Care Society Meeting. Durban, South Africa, August 2016.
Invited Speaker	Lipman J. Invited Speaker. 29th Annual European Society of Intensive Care Medicine Meeting. Milan, October 2016.
Oral	Paratz J Facilitating clinicians to implement evidence into practice. RBWH Healthcare Symposium. September 2016.
Oral	Paratz J. Follow up clinic for sepsis survivors, preliminary results & feasibility. 29 th Annual European Society of Intensive Care Medicine Meeting. Milan, October, 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Paratz J. Early exercise and the microcirculation in sepsis. 29th Annual European Society of Intensive Care Medicine Meeting. Milan, October, 2016.
Oral	Reade MC. The new Australian Defence Force Blood Transfusion policy. Australasian Association of Clinical Biochemists / Australian Institute of Medical Scientists Combined Scientific Meeting. Brisbane, 2016.
Oral	Reade MC. Dexmedetomidine in agitated delirium: the DahLIA trial results. Australian and New Zealand Intensive Care Society Annual Scientific Meeting. Perth, 2016.
Oral	Reade MC. Is there still any reason to use colloids in trauma or critical illness? Australian and New Zealand Intensive Care Society. Annual Scientific Meeting. Perth, 2016.
Oral	Holley A, Reade MC, Robertson A, New C, Lumsden J, Sharpe S, Weber D, Rogerson T, Mackie B, Herron R. Military critical care. Australian and New Zealand Intensive Care Society Annual Scientific Meeting. Perth, 2016.
Oral	Reade MC. Recent clinical trials of dexmedetomidine. Asia-Pacific Sedation Conference. Seoul, 2016.
Oral	Reade MC. Blast injury in civilian practice. 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.
Oral	Reade MC. Are non-arterial blood gases any use? 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.
Oral	Reade MC. Why I would, and why I would not, use whole blood transfusions in civilian practice. 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.
Oral	Reade MC. Penetrating thoraco-abdominal trauma in an austere Role 2 hospital. Remote Damage Control Resuscitation Conference. Bergen, 2016.
Oral	Reade MC. Treatment of agitated delirium: new aspects. 36th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2016. (invited conference opening plenary session).
Oral	Reade MC. Can we measure blood gases and lactate from venous or capillary blood? 36th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2016.
Oral	Roberts JA. Under Dosing of Antibiotics in the ICU - A PK/PD Approach. IDWeek, Infectious Diseases Society of America Annual Scientific Meeting. New Orleans USA, October 2016.
Oral	Roberts JA. Antibiotic use in extracorporeal techniques. European Society of Intensive Care Medicine Annual Congress. Milan, Italy, October 2016.
Oral	Roberts JA. Dosing antifungals in the critically ill. European Society of Intensive Care Medicine Annual Congress. Milan, Italy, October 2016.
Oral	Roberts JA. Antibiotic PK/PD for treatment of MDR infections. European Society of Intensive Care Medicine Annual Congress. Milan, Italy, October 2016.
Oral	Roberts JA. Optimized PK/PD: Can It Reduce Resistance? ASM Microbe. Boston, USA, June 2016.
Oral	Roberts JA. Fitting data to models. ESCMID Postgraduate Technical Workshop Population Modelling and Dose Optimization with Pmetrics and BestDose: Antimicrobial Applications. Lyon, France, April 2016.
Oral	Roberts JA. TDM for beta lactams, sharing of centers experience, expert's vision for the future. Singapore Therapeutic Drug Monitoring Workshop. Singapore, April 2016.
Oral	Roberts JA. Approaches to funding the response to antimicrobial resistance. 3rd Queensland Forum on Antimicrobial Resistance. Brisbane, November 2016.
Oral	Roberts JA. Getting Systemic Therapy Right! Orthopaedic Infections – State of the Art. Brisbane, November 2016.
Oral	Roberts JA. Individualised antibiotic dosing and therapeutic drug monitoring. Sydney, September 2016.
Oral	Roberts JA. Drug dosing in obesity. Society of Hospital Pharmacists of Australia Queensland Branch Continuing Education Series. Brisbane, June 2016.
Oral	Roberts JA. Fitting data to models. NHMRC Centre of Research Excellence REDUCE Workshop on Population Modelling and Dose Optimization. Brisbane, October 2016.
Oral	Roberts JA. The importance of antibiotic dosing as part of AMS. 2nd Annual Targeting and Evaluating Antimicrobial Stewardship Forum. Melbourne, June 2016.
Oral	Roberts JA. Renal Replacement Therapy. Critical Care Seminar, Society of Hospital Pharmacists of Australia. Brisbane, May 2016.
Oral	Roberts JA. Is there a role for TDM in infective endocarditis? Australian Society for Antimicrobials – Annual Scientific Meeting. Melbourne, February 2016.
Oral	Roberts JA. Using MIC in Predicting Clinical Outcomes of Antibiotic Treatment. Australian Society for Antimicrobials – Annual Scientific Meeting. Melbourne, February 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Stone L, McCarthy A, Coyer F . Poster Presentation. The CONTRAST Research Program: Aligning Magnet Attributes in Australia and the United States. 2016 ANCC National Magnet Conference. Orlando, Florida, USA, October, 2016.
Oral	Tuttici N. (PhD candidate Coyer F Principal supervisor). Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation. Hawaii International Conference on Education. Honolulu, Hawaii, USA, January 2016.
Presentation	Tuttici N. (PhD candidate Coyer F Principal supervisor). Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation. Hawaii International Conference on Education. Honolulu, Hawaii, USA, January 2016.
Presentation	Alobaid AS, Roberts MS, Wallis SC, Lipman J, Roberts JA . What is the effect of obesity on the population pharmacokinetics of meropenem in critically ill patients? European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.
Presentation	Byrne CJ, Roberts JA , McWhinney B, Fennell JP, O'Byrne P, Deasy E, Egan S, Enright H, Ryder SA, D'Arcy DM, McHugh J. The impact of serum albumin concentrations on the pharmacokinetics of unbound teicoplanin in patients with haematological malignancy. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.
Oral and Poster Presentation	Coyer F . A hole lot of trouble: a device-related tracheostomy pressure injury case study. The Inaugural Wounds Australia Conference (AWMA). Melbourne, November. 2016
Presentation	Farkas A, Luque S, Frey OR, Roehr AC, Grau S, Roberts JA . Population pharmacokinetics of linezolid as it applies to therapeutic drug monitoring: a comparison of ten approaches. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.
Presentation	Hann A, Presneill J, Reade MC . Hollow viscus injury following blunt abdominal trauma: A case series. General Surgeons Australia Annual Scientific Meeting. Melbourne, 2016.
Presentation	Lopez M, Grau S, Moreno I, Rubio M, Luque S, Roberts JA . Pharmacokinetics of micafungin in patients receiving ECMO. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.
Presentation	Roberts JA , Roger C, Wallis SC, Muller L, Lipman J, Lefrant JY. Comparative effect of equal dose of continuous veno-venous haemofiltration and continuous veno-venous haemodiafiltration on ciprofloxacin population pharmacokinetics in critically ill patients. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Intensive Care Services	100	25	52	

The Professor Tess Cramond Multidisciplinary Pain Centre

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Nicole Andrews	Honorary Lecturer	School of Health and Rehabilitation Sciences	University of Queensland (2015- 2016)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Nicole Andrews	Marlien Varnfield, David Ireland	Towards understanding how much is too much for individuals with chronic pain
Nicole Andrews	Sue Laracy	Evaluation of occupational therapy interventions within the orthopaedic physiotherapy screening clinic

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Lynn DeBar (Kaiser Permanente Centre for Health Research, Portland, USA) Meghan Mayhew (Kaiser Permanente Centre for Health Research, Portland, USA)	Nicole Andrews (Occupational Therapy)	PPACT Administrative Supplement for Research on Sleep Disturbances and Impact on Chronic Pain

Research Awards and Achievements

Recipient	Award	Event
Nicole Andrews	Highly commended award in the chronic disease category	Metro North Hospital and Health Service District 2015 research Excellence Awards, May 2016
Nicole Andrews	Elite reviewer award for Archives of Physical Medicine and Rehabilitation	-

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Andrews, N. , Strong, J., Meredith, P., & Fleming J. (2016). The relationship between overactivity and opioid use in chronic pain: A five day observational study. <i>Pain</i> , 157, 466-474. doi: 10.1097/j.pain.0000000000000384
Journal article	Andrews, N. , Deen, M. (2016). Defining activity pacing: Is it time to jump off the merry-go-round? <i>Journal of pain</i> , 17 (12), 1359-1362. doi: 10.1016/j.jpain.2016.05.001

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Andrews N. Overactivity in chronic pain. 2016 Mind and Pain in Motion Symposium. Bochum, Germany, June, 2016.
Invited	Andrews N. Translation of research into clinical practice within the Professor Tess Cramond Multidisciplinary Pain Centre. 2016 RBWH healthcare symposium. Brisbane, September, 2016.

Internal Medicine Services



Kate Mason
Executive Director
Internal Medicine Services

Internal Medicine Services is involved in a large volume of research activities across the breadth of our services. Our staff are passionate about research and the benefits for our patients and the broader health communities that are impacted by our research outcomes.

The recently released MN HHS Research Strategy for 2017-2022 notes the main themes for research as diagnostic, therapeutics and health services research. Internal Medicine Services is currently conducting active research within all of these domains.

Excellent Research needs talented and energised people to work from the bedside to the laboratory and involves many different skills sets from our clinical doctors, nurses and health professionals, research assistants, administrative support roles, and of course effective links with diagnostic and tertiary education partners. Our patients are of course one of the greatest assets that our research has with an enormous number of participants involved in diagnostic, therapeutic and health services research across the diversity of services within medicine. Access to clinical trials allows many patients to receive therapies not offered elsewhere under tight monitoring conditions.

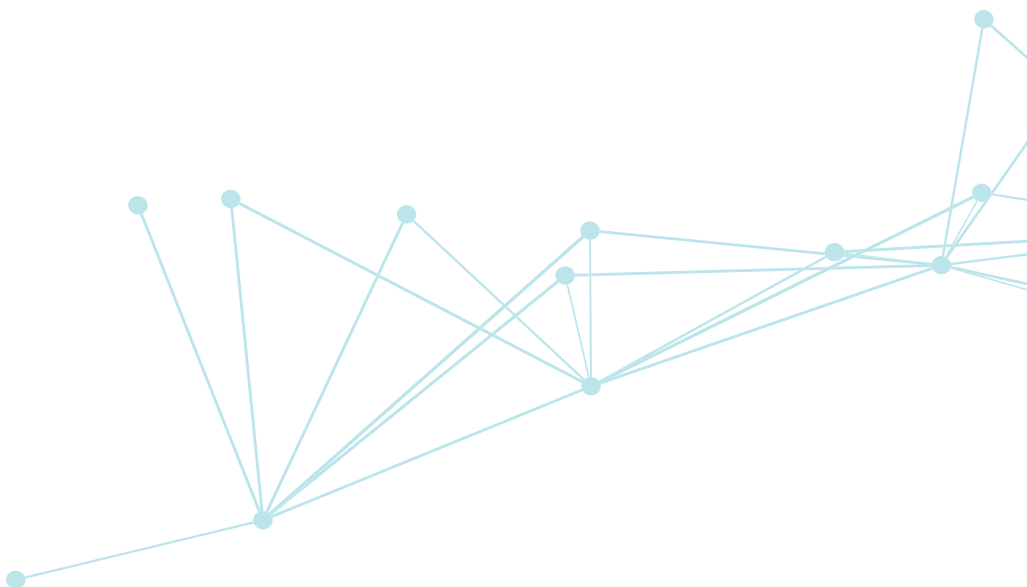
IMS have a wealth of Investigator driven research as well as hundreds of publications, presentations at key professional meetings and authors or co-authors of books or chapters. The sharing of the outcomes of our team's research is one of the prime motivators that propels our staff to spend both funded and discretionary time undertaking this important work.

3 departments within Internal Medicine are actively involved in the Con Joint Internal Medicine Laboratory, a partnership with Chemical Pathology, to advance research in the areas of Renal Medicine, Endocrinology and Hepatology.

Dr Helen Healy is the 2017 IMS Research representative on the RBWH Research Council along with Jye Smith as a council member. Both of these staff have a successful track record with research in their chosen clinical areas. We are very proud of the depth and variety of research undertaken within Internal Medicine and look forward to the results of the hard work that is evident in bringing research into practice and improving our knowledge base every single day.



Sandy Jamieson
Nursing Director
Internal Medicine Services



Department of Cardiology

About this service:

The cardiology department has a broad investigator-driven research program with a focus on health service research and evaluation. Much of this research has grown from the efforts of clinicians to improve models of care with interdisciplinary collaboration within RBWH and with other centres nationally and internationally.

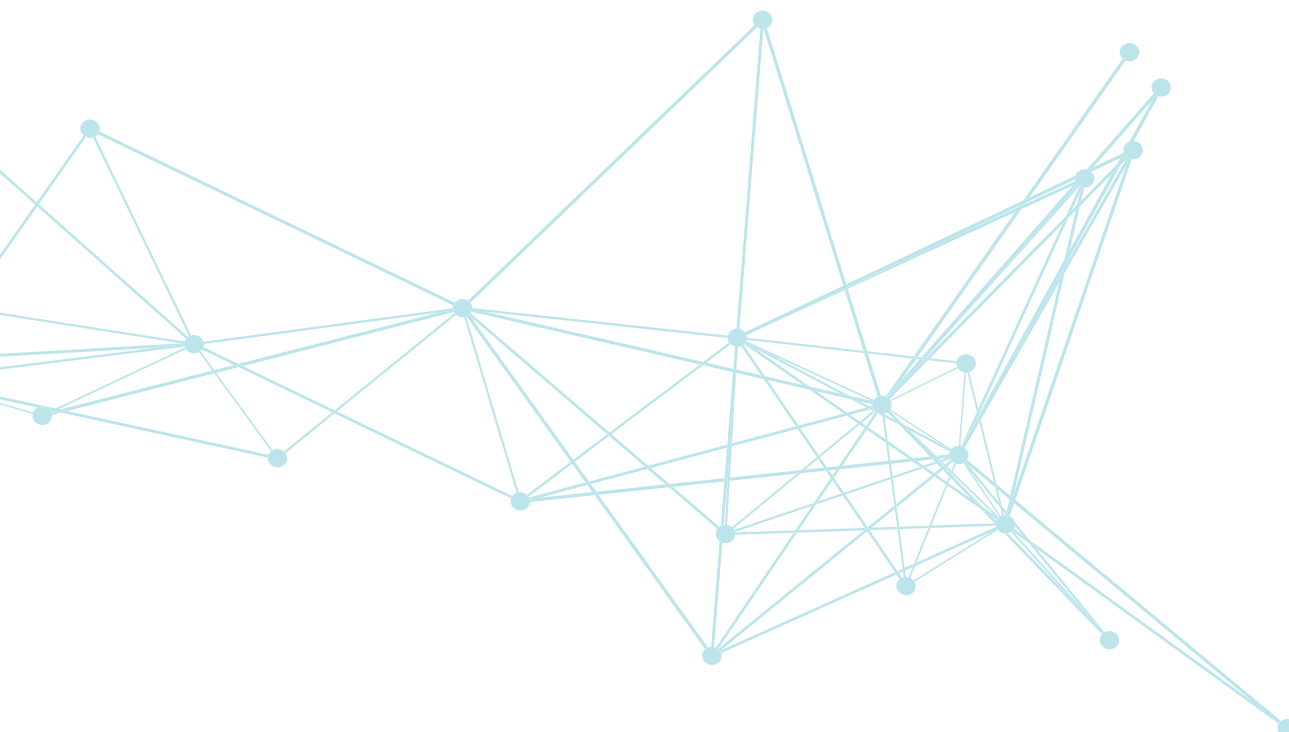
Highlights of 2016:

The evaluation of chest pain has involved a collaboration with the emergency department and internal medicine, and resulted in numerous collaborations internationally, successful grant funding, and industry partnerships. We have unique cardiac obstetric (collaboration with Internal Medicine and Obstetric Medicine) and cardiac genetic (collaboration with Genetic Health Queensland) clinics that receive statewide referrals.

Other research interests include investigating ways to detect presymptomatic heart disease using salivary biomarkers (collaboration with QUT), and investigating the feasibility of training nurses to perform echocardiography to assess left ventricular function. This may allow non-invasive and cost-effective early disease detection and monitoring. We have a strong clinical trials research program and have been the lead national and global recruiting site for a number of multicentre trials.

Benefits for clinical practice:

Research into the evaluation of patients presenting with chest pain is being actively translated into clinical practice throughout Queensland by the Health Innovation Fund supported Accelerated Chest pain Risk Evaluation (ACRE) clinical redesign project. This research is informing the evaluation of chest pain across Queensland and internationally. We have developed pathways to investigate families who have suffered a sudden death at a young age, which involves collaboration with clinical genetics, forensic pathology and the Coroner's office. We have commenced a Cardiac Catheter Laboratory database with comprehensive mandatory complication tracking, which will inform the Queensland and Australian Cardiac Outcomes Registry. We informed the development of the Heart Failure Reporting Outcomes (HERO) database, which is tracking healthcare measures for all patients referred to heart failure services in Queensland.



Editorial and other key positions held:

- Professor and Clinical Director, Australian Centre for Health Service Innovation, Queensland University of Technology.
- Associate Editor, Heart Lung Circulation (2 staff members).
- Editorial board for Cardiac Failure Review.
- Associate Cardiac Editor, Australasian Journal of Ultrasound in Medicine.
- European Cardiac Obstetric Registry (only Australian representative).
- 2016 European Society of Cardiology Guidelines on Acute and Chronic Heart Failure official content reviewer (1 of 3 non-European content reviewers).
- National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand (CSANZ) Heart Failure Guidelines Working Group (Chair).
- Therapeutic Guidelines Cardiovascular Expert Group.
- Australian Government Medical Services Advisory Committee (MSAC).
- National Heart Foundation Research Committee.
- CSANZ Board.
- CSANZ Education Trust Board of Trustees.
- CSANZ Queensland Regional Secretary.
- Medicare Benefits Schedule Review Cardiac Services Clinical Committee.
- Australian National Genetic Heart Disease Registry.
- Australian Cardiac Genetic Testing (AGCT) collaborative.
- Brisbane Diamantina Health Partners Evidence and Innovation in Clinical Care Theme Leadership Group.
- Queensland Heart Failure Service Steering Committee (Co-chair), Cardiac Outcomes Registry Steering Committee (Co-Chair), and Heart Failure Reporting Outcomes registry (Chair).
- Queensland Cardiovascular Research Network Steering Committee.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Guppy-Coles, K	PhD, UQ (2013-2017)	Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening	John Atherton, Sandhir Prasad, Arnold Ng
Poulter, R	PhD, UQ (2012-2017)	Evaluating the diagnostic performance of dual energy cardiac computed tomography.	John Atherton, John Younger
Lo, A	PhD, UQ (2014-2017)	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression.	John Atherton, Arnold Ng, William Wang
McCreanor, Victoria	PhD, QUT (2016-2019)	Identifying high value care for stable coronary artery disease in Australia	Nick Graves, Adrian Barnett, William Parsonage
Lancini, Daniel	PhD, UQ (2015-2021)	Atrial fibrillation in the hospital setting.	Paul Martin, Sandhir Prasad, John Atherton, Louise Cullen, Robert Boots
Prasad, Sandhir	MPhil, UQ (2016-2020)	Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis.	John Atherton, John Younger
Conradie, Andre	MPhil, UQ (2016-2020)	Determining an absolute risk model (calculator) to optimise the use of DAPT in patients presenting with acute coronary artery syndromes.	John Atherton, Stephen Worthley

Supervised Post-graduate Research Students

Name	Type of Fellowship	Research Program	University Affiliation (years)
William Parsonage	Professor and Clinical Director, Australian Centre for Health Service Innovation		QUT
Adam Scott	Adjunct Professor	Faculty of Health, School of Public Health	QUT
John Atherton	Adjunct Professor	Faculty of Health	QUT

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Kris Guppy-Coles, John Atherton, Sandhir Prasad	Arun Dahiya , Arnold Ng, Kym Smith , Ada Lo , Sam Hillier	Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening
Ada Lo, John Atherton	Arnold Ng, William Wang, Sandhir Prasad	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression.
Sandhir Prasad, John Atherton, John Younger	Liza Thomas, Tony Stanton, James Anderson, Ada Lo, Joanne Sippel, Christopher Kwan, Kym Smith	Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis.
Sandhir Prasad, John Atherton, Kristyan Guppy-Coles, Po-Ling Inglis, Joanne Sippel	Kym Smith, Ada Lo, Arun Dahiya	Evaluation of oncology staff performing 3D-echocardiographic left ventricular function assessment for monitoring chemotherapy-induced cardiotoxicity.
Sanjoy Paul, Olga Montvida, John Atherton	Kerenaftali Klein, Julius Agbeve	Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes.
William Parsonage, Louise McCormack	Cullen L, Milburn T, Greenslade J , Starmer G, Stone R, Starmer K (Cairns HHS)	The impact of ImpACT: A protocol to improve emergency chest pain assessment
Adam Scott, Alice McDonald, John Atherton		Tele-Cardiac Investigations to create local access to treatment for patients in the outer western corridor of Qld.
Daniel Lancini, Paul Martin, Sandhir Prasad	Rob Boots	New onset atrial fibrillation in the critically ill
Daniel Lancini, Paul Martin, Sandhir Prasad	Louise Cullen, Jaimi Greenslade	Atrial fibrillation in the emergency chest pain presentation

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Jonathan Hall, Michael Barras, John Atherton, Serena Rofail, M Khatun (Pharmacy)	John Atherton	Mineralocorticoid receptor antagonists in heart failure: Incidence of hyperkalaemia and the effect of GFR estimation
Alison Mudge, Charles Denaro, Adam Scott, Julie Adsett , Robert Mullins, G Javorsky, John Atherton , Paul Scuffham, Thomas Marwick, Peter O'Rourke (Department of Internal Medicine and Aged care)	Adam Scott, John Atherton	A supervised exercise programme following hospitalisation for heart failure: does it add to disease management?

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Mary Courtney, Jo Wu, Steven McPhail, John Atherton (ACU)	John Atherton	The Cardiac/Diabetes TRANS-CARE Project
Jo Wu, John Atherton , Anne Chang, Mary Courtney, Esben Strodl, Steven McPhail (QUT)	John Atherton	Improving delivery by Ehealth- Assurance for Life (IDEAL)
Chamindie Punyadeera, John Atherton , Benjamin Schulz, Goce Dimeski, Karam Kostner (QUT)	John Atherton	Novel diagnostics for heart failure
Annabel Hickey, Jessica Suna , John Atherton , George Javorsky, Charles Denaro , Andrew Munns, Louise Marquart, Alison Mudge (Metro North HHS)	John Atherton	Enhancing medication titration in patients with heart failure.
Robyn Clark, Vincent Versace, Munir Chowdhury, Alexandra McCarthy, John Atherton , Bogda Koczwara, David Roder (Flinders University)	John Atherton	Characteristics of haematologic and breast cancer patients (1996-2009) who died of heart failure-related causes with and without a prior heart failure hospitalization- A linked health data analysis.
Robyn Clark, Alexandra McCarthy, Robyn Peters, John Atherton (Metro South HHS)	John Atherton	A retrospective clinical audit of medical records to examine the journey through the healthcare system of patients who have developed cardiomyopathy after anticancer therapy.
Robyn Clark, Alexandra McCarthy, John Atherton , Bogda Koczwara, Narelle Berry, Tania Marin, Kerri Gillespie, Jonathon Foote, Sina Vatandoust. (Flinders University)	John Atherton	Development of a cardiotoxicity cardiovascular risk assessment tool.
Dike Ojji, Karen Sliwa, John Atherton , Simon Stewart, Elena Libhaber, Bolaji Abdullahi, Ada Nwankwo, Alfa Jacob, Ngabea Murtala, Lionel Opie, Samuel Ajayi, Manmak Mamven (University of Abuja)	John Atherton	Studies of hypertension and heart failure in Nigeria.
Adrienne O'Neil, Aaron Fisher, Katherine Kibbey, Felice Jacka, Mark Kotowicz, Lana Williams, Amanda Stuart, Michael Berk, Paul Lewandowski, John Atherton , Craig Taylor, Julie Pasco. (University of Melbourne)	John Atherton	The addition of depression to the Framingham risk equation.
Robyn Clark, Bronwyn Fredericks, Natahlia Buitendyk, Michael Adams, Jill Howie-Esquivel, Kathleen Dracup, Narelle Berry, John Atherton , Stella Johnson (Flinders University)	John Atherton	Development and feasibility testing of an education program to improve knowledge and self-care among Aboriginal and Torres Strait Islander patients with heart failure.
Sanjoy Paul, Olga Montvida, John Atherton , Kerenaftali Klein, Julius Agbeve (QIMR)	John Atherton	Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes.

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Joseph Selvanayagam, Sanjay Prasad, Andrew McGavigan, Graham Hillis, Werner Jung, Laurent Billot, Suchi Grover, John Atherton (SAHMRI)	John Atherton, John Younger, Paul Martin	Cardiovascular Magnetic Resonance GUIDEd management of mild-moderate left ventricular systolic Heart Failure (CMR GUIDE HF).
Briffa T, Cullen L , Chew D, Knuiman M, Fatovich D, Hickman P, Parsonage W , Nedkoff L, Sanfilippo F, Hillis G, Mitra B, Wilkes G, Schneider H, Rankin J, Karnon J, Scanlan S, Stapleton S, Mather V.	William Parsonage	Is highly-sensitive troponin testing advancing clinical practice, improving outcomes and cost-effective in the investigation and management of chest pain in the Emergency Department?
Elizabeth Sullivan, Rachael Cordina Dominica Zentner, Michael Peek Rachael Cordina, Lisa Simmons Lawrence Lam, David Celermajer, Wendy Pollock, Karin Lust , Jon Hyett, William Parsonage , Zhuoyang Li	William Parsonage	Australasian Maternity Outcomes Surveillance System (AMOSS) longitudinal study of first-time NSW/ACT mothers with heart disease and their babies
Richard Bagnall, Robert Weintraub, Jodie Ingles, Johan Duflo, Laura Yeates, Lien Lam, Andrew Davis, Tina Thompson, Vanessa Connell, Jennie Wallace, Charles Naylor, Jackie Crawford, Donald Love, Lavinia Hallam, Jodi White, Christopher Lawrence, Matthew Lynch, Natalie Morgan, Paul James, Desirée du Sart, Rajesh Puranik, Neil Langlois, Jitendra Vohra, Ingrid Winship, John Atherton, Julie McGaughran , Jonathan Skinner, Christopher Semsarian (University of Sydney)	John Atherton	A prospective study of sudden death in the young.
Jodie Ingles, Christopher Semsarian, John Atherton , Rajesh Puranik, Tim Driscoll, Aldo Saavedra, Alexander Judge, Ron Grunstein, David Sullivan, Amanda Salis (University of Sydney)	John Atherton	Nonfamilial hypertrophic cardiomyopathy
Tom Marwick, Liza Thomas, Andrew Taylor, Andrew Spencer, Andre La Gerche, Con Tam, Sherene Loi, Peter Mollee, John Atherton , Paul Harnett (Baker IDI)	John Atherton, Sandhir Prasad, Joanne Sippel, Arun Dahiya, Louise McCormack, John Younger	Benefit of 2D-strain surveillance in improving cardiovascular outcomes in cancer patients undergoing cardiotoxic chemotherapy.
Arun Dahiya , Rick Jackson (Logan Hospital)	Arun Dahiya	Advanced Cardiovascular Imaging in Patients with Myotonic Dystrophy.
Adam Scott, Alice McDonald, John Atherton	Adam Scott, Alice McDonald, John Atherton	Tele-Cardiac Investigations to create local access to treatment for patients in the outer western corridor of Qld.

Research Awards and Achievements

Recipient	Award	Event
John Atherton	Fellowship of the European Society of Cardiology (2016)	European Society of Cardiology Congress 2017
The Emergency Cardiology Group (William Parsonage , Cardiology Lead)	Integrated Care – Health Services Research	Metro North Research Excellence Awards 2016
The ACRE Team (William Parsonage , Cardiology Lead)	Team Award for Promoting Clinical Research and Application to Practice 2016	Ko Awatea International Excellence in Health Improvement Awards 2016
William Parsonage	Runner up, Health services research impact award	Health Services Research Association of Australia and New Zealand 2016
Tele-Cardiac Investigations Team (Adam Scott , Cardiology Lead);	Health Services Award	RBWH Healthcare symposium 2016
Tele-Cardiac Investigations Team (Adam Scott , Cardiology Lead)	QuARRIES Award “Excellence in Performance”	RBWH QLD 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Chamindie Punyadeera, John Atherton , John Fraser, Karam Kostner.	Cardiology	A saliva test to identify high risk heart failure patients	Heart Foundation Vanguard Grant	\$75,000.00	2016
John Atherton , Sanjoy Paul, Kerenaftali Klein, Olga Montvida, Julius Agbeve.	Cardiology	Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes.	Royal Brisbane and Women's Hospital Foundation 2016 Research Initiative Grant	\$40,000.00	2016
Sandhir Prasad , Kristyan Guppy-Coles , Po-Ling Inglis , John Atherton , Kym Smith , Ada Lo , Arun Dahiya .	Cardiology	Evaluation of oncology nurses performing 3D-echocardiographic left ventricular function assessment for monitoring chemotherapy induced cardiotoxicity.	Royal Brisbane and Women's Hospital 2016 Research Project Grant	\$40,000.00	2016
Cullen L , Parsonage W , McCormack L , Milburn T , Starmer G, Stone R, Starmer K, Greenslade J	Cardiology and Emergency Medicine	The impact of ImpACT: A protocol to improve emergency chest pain assessment	Australian Centre for Health Service Innovation: Partnership Grant	\$110,000.00	2016-18
Adam Scott	Cardiology	Tele-stress testing to help our rural hospitals	MNHHS CEO Grant	\$17,500	2016
Adam Scott	Tele-Cardiac Investigations Team	Telehealth Cardiac Investigations	Clinical Excellence Division Qld Health	\$1,515,000	2016 – 2019
Daniel Lancini , Paul Martin , Sandhir Prasad , Jaimi Greenslade , Louise Cullen	Cardiology and Emergency Medicine	Atrial fibrillation in the emergency chest pain presentation	RBWH and RBWH Foundation Research Project Grant 2017	\$15,335.88	2017

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	O'Neil A, Fisher AJ, Kibbey K, Jacka FN, Kotowicz MA, Williams LJ, Stuart AL, Berk M, Lewandowski PA, Atherton JJ , Taylor CB, Pasco JA. The addition of depression to the Framingham Risk Equation model for predicting coronary heart disease risk in women. Preventive Medicine 2016;87:115-20. doi: 10.1016/j.ypmed.2016.02.028. PMID:26906397.
Journal Article	Hayman S, Atherton JJ . Should angiotensin receptor neprilysin inhibitors replace angiotensin converting enzyme inhibitors in heart failure with a reduced ejection fraction? Cardiac Failure Review 2016;2:47-50.
Journal Article	Ojji DB, Opie LH, Lecour S, Atherton JJ , Blauwet LA, Lacerda L, Adeyemi O, Abdullahi B, Nwankwo A, Sliwa K. Right ventricular systolic dysfunction is common in hypertensive heart failure: A prospective study in Sub-Saharan Africa. PLoS ONE 2016 Apr 13;11(4):e0153479. doi: 10.1371/journal.pone.0153479. PMID:27073856.
Journal Article	Carroll R, Mudge A, Suna J, Denaro C, Atherton J . Prescribing and up-titration in recently hospitalized heart failure patients attending a disease management program. <i>Int J Cardiol</i> 2016;216:121-7. doi: 10.1016/j.ijcard.2016.04.084. Epub 2016 Apr 16. PMID:27153136.
Journal Article	Zhang X, Chata R, Wan Y, Brazzale A, Atherton JJ , Kostner K, Dimeski G, Punyadeera C. A pilot study to demonstrate diagnostic potential of galectin-3 levels in saliva. <i>J Clin Path</i> 2016 Jun 23. pii: jclinpath-2016-203631. doi: 10.1136/jclinpath-2016-203631. [Epub ahead of print] PMID: 27340130.
Journal Article	Versace VL, Berry NM, Chowdhury MH, Ullah S, McCarthy AL, Atherton JJ , Koczwara B, Roder D, Clark RA. Characteristics of patients with haematological and breast cancer (1996-2009) who died of heart failure-related causes after cancer therapy. <i>ESC Heart Failure</i> 2016;3:253-60. doi: 10.1002/ehf2.12099.
Journal Article	Iyngkaran P, Kangaharan N, Zimmet H, Arstall M, Minson R, Thomas MC, Bergin P, Atherton J , MacDonald P, Hare DL, Horowitz JD, Ilton M. Heart failure in minority populations - impediments to optimal treatment in Aboriginal Australians. <i>Curr Cardiol Rev</i> 2016;12:166-79.
Journal Article	Bagnall, RD, Weintraub RG, Ingles J, Duflou J, Yeates L, Lam L, Davis AM, Thompson T, Connell V, Wallace J, Naylor C, Crawford J, Love DR, Hallam L, White J, Lawrence C, Lynch M, Morgan N, James P, du Sart D, Puranik R, Langlois N, Vohra J, Winship I, Atherton J, McGaughan J , Skinner JR, Semsarian C. A prospective study of sudden cardiac death among children and young adults. <i>New Engl J Med</i> 2016;374:2441-52. doi: 10.1056/NEJMoa1510687. PMID:27332903.
Journal Article	Ojji D, Stewart S, Atherton J , Ajayi S, Mamven M, Murtala N, Ojji O, Sliwa K. Ten-year coronary artery disease risk in 1571 newly presenting hypertensive black subjects. J Community Med Health Educ 2016;6(3):1000442.
Journal Article	Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JG, Coats AJ, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GM, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; Authors/Task Force Members; Document Reviewers. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: The Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC) Developed with the special contribution of the Heart Failure Association (HFA) of the ESC. <i>Eur Heart J</i> 2016;37:2129-200. (Official content reviewer)
Journal Article	Clark RA, Berry NM, Chowdhury MH, McCarthy AL, Ullah S, Versace VL, Atherton JJ , Koczwara B, Roder D. Heart failure following cancer treatment: Characteristics, survival and mortality of a linked health data analysis. Int Med J 2016;46:1297-1306. doi: 10.1111/imj.13201.
Journal Article	Hickey A, Suna J , Marquart L, Denaro C , Javorsky G, Munns, A, Mudge A, Atherton JJ . Improving medication titration in heart failure by embedding a structured medication titration plan. Int J Cardiol 2016;224:99-106. doi.org/10.1016/j.ijcard.2016.09.001.
Journal Article	Neumann JT, Sörensen NA, Ojeda F, Schwemer T, Lehmacher J, Gönner S, Jarsetz N, Keller T, Schaefer S, Renné T, Landmesser U, Clemmensen P, Makarova N, Schnabel RB, Zeller T, Karakas M, Pickering JW, Than M, Parsonage W, Greenslade J, Cullen L , Westermann D, Blankenberg S. Immediate Rule-Out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-Sensitivity Troponin I. Clin Chem 2017 Jan;63(1):394-402.
Journal Article	Jin H, Greenslade JH, Parsonage WA, Hawkins T , Than M, Cullen L . Does Uric Acid Level Provide Additional Risk Stratification Information in Emergency Patients With Symptoms of Possible Acute Coronary Syndrome? Crit Pathw Cardiol 2016 Dec;15(4):169-173.
Journal Article	Pickering JW, Greenslade JH, Cullen L, Flaws D, Parsonage W , Aldous S, George P, Worster A, Kavsak PA, Than MP. Assessment of the European Society of Cardiology 0-Hour/1-Hour Algorithm to Rule-Out and Rule-In Acute Myocardial Infarction. Circulation 2016 Nov 15;134(20):1532-1541.
Journal Article	Iliceto A, Berndt SL, Greenslade JH, Parsonage WA, Hammett C, Than M, Hawkins T, Parker K, O'Kane S, Cullen L . Agreement Between Patient-reported and Cardiology-adjudicated Medical History in Patients With Possible Ischemic Chest Pain: An Observational Study. Crit Pathw Cardiol 2016 Sep;15(3):121-5.
Journal Article	Carlton E, Greenslade J, Cullen L , Body R, Than M, Pickering JW, Aldous S, Carley S, Hammett CJ, Kendall J, Keevil B, Lord S, Parsonage W , Greaves K. Evaluation of High-Sensitivity Cardiac Troponin I Levels in Patients With Suspected Acute Coronary Syndrome. JAMA Cardiol 2016 Jul 1;1(4):405-12.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Neumann JT, Sørensen NA, Schwemer T, Ojeda F, Bourry R, Sciacca V, Schaefer S, Waldeyer C, Sinning C, Renné T, Than M, Parsonage W , Wildi K, Makarova N, Schnabel RB, Landmesser U, Mueller C, Cullen L , Greenslade J , Zeller T, Blankenberg S, Karakas M, Westermann D. Diagnosis of Myocardial Infarction Using a High-Sensitivity Troponin I 1-Hour Algorithm. JAMA Cardiol 2016 Jul;1(4):397-404.
Journal Article	Flaws D, Than M, Scheuermeyer FX, Christenson J, Boychuk B, Greenslade JH , Aldous S, Hammett CJ , Parsonage WA , Deely JM, Pickering JW, Cullen L. External validation of the emergency department assessment of chest pain score accelerated diagnostic pathway (EDACS-ADP). Emerg Med J 2016 Jul 12. pii:emermed-2015-205028.
Journal Article	Parsonage WA , Mueller C, Greenslade JH , Wildi K, Pickering J, Than M, Aldous S, Boeddinghaus J, Hammett CJ , Hawkins T, Nestelberger T, Reichlin T, Reidt S, Rubin Gimenez M, Tate JR , Twerenbold R, Ungerer JP , Cullen L . Validation of NICE diagnostic guidance for rule out of myocardial infarction using high-sensitivity troponin tests. Heart 2016 Aug;102(16):1279-86
Journal Article	van Hagen IM, Boersma E, Johnson MR, Thorne SA, Parsonage WA , Escribano Subías P, Lesniak-Sobelga A, Irtyuga O, Sorour KA, Taha N, Maggioni AP, Hall R, Roos-Hesselink JW; ROPAC investigators and EORP team. Global cardiac risk assessment in the Registry Of Pregnancy And Cardiac disease: results of a registry from the European Society of Cardiology Eur J Heart Fail 2016 May;18(5):523-33.
Journal Article	Pickering JW, Greenslade JH , Cullen L , Flaws D , Parsonage W , George P, Worster A, Kavsak PA, Than MP. Validation of presentation and 3 h high-sensitivity troponin to rule-in and rule-out acute myocardial infarction. Heart 2016 Mar 8.
Journal Article	Cheng Q, Greenslade JH , Parsonage WA , Barnett AG, Merollini K, Graves N, Peacock WF, Cullen L . Change to costs and lengths of stay in the emergency department and the Brisbane protocol: an observational study. BMJ Open 2016 Feb 25;6(2)
Journal Article	Boeddinghaus J, Reichlin T, Cullen L , Greenslade JH , Parsonage WA , Hammett C , Pickering JW, Hawkins T , Aldous S, Twerenbold R, Wildi K, Nestelberger T, Grimm K, Rubini-Gimenez M, Puelacher C, Kern V, Rentsch K, Than M, Mueller C. Two-Hour Algorithm for Triage toward Rule-Out and Rule-In of Acute Myocardial Infarction by Use of High-Sensitivity Cardiac Troponin. Clin Chem 2016 Mar;62(3):494-504.
Journal Article	Cullen L , Greenslade JH , Menzies L, Leong A, Than M, Pemberton C, Aldous S, Pickering J, Dalton E , Crosling B, Foreman R, Parsonage WA . Time to presentation and 12-month health outcomes in patients presenting to the emergency department with symptoms of possible acute coronary syndrome. Emerg Med J 2016 Jun;33(6):390-5.
Journal Article	Cullen L , Greenslade JH , Carlton EW, Than M, Pickering JW, Ho A, Greaves K, Berndt SL, Body R, Ryan K, Parsonage WA . Sex-specific versus overall cut points for a high sensitivity troponin I assay in predicting 1-year outcomes in emergency patients presenting with chest pain. Heart 2016 Jan;102(2):120-6.
Journal Article	Farshid A, Brieger D, Hyun K, Hammett CJ , Ellis C, Rankin J, Lefkovits J, Chew D, French J. Characteristics and clinical course of STEMI patients who received no reperfusion in the Australia and New Zealand SNAPSHOT ACS Registry. Heart, Lung and Circulation 2016; 25:132-9.
Journal Article	Montalescot G, van 't Hof AW, Bolognese L, Cantor WJ, Cequier A, Chettibi M, Collet JP, Goodman SG, Hammett CJ , Huber K, Janzon M, Lapostolle F, Lassen JF, Licour M, Merkely B, Salhi M, Silvain J, Storey RF, ten Berg JM, Tsatsaris A, Zeymer U, Vicaut E, Hamm CW, for the ATLANTIC investigators. Effect of Pre-Hospital Ticagrelor in the First 24 Hours After Primary PCI In Patients With ST-Segment Elevation Myocardial Infarction - the ATLANTIC-H24 Analysis. JACC Interventions 2016; 997:646-56.
Journal Article	Etaher A, Chew DP, Redfern J, Briffa TG, Ellis C, Hammett CJ , Lefkovits J, Elliott J, Cullen L, Brieger D, French JK. Suspected ACS Patients Presenting with Myocardial Damage or a Type 2 Myocardial Infarction have a Similar Late Mortality to Patients with a Type 1 Myocardial Infarction; A report from the Australian and New Zealand 2012 SNAPSHOT ACS study. Heart, Lung and Circulation 2016; online 31 December 2016.
Journal Article	Kostner K, Nicholls S, Amerena J, Brown A, Cooper M, Hammett CJ , O'Brien R, Kritharides L, Hare DL, Watts GF, Aylward P. Intensive LDL reduction post Acute Coronary Syndromes: A catalyst for improved outcomes. Heart, Lung and Circulation 2016;26: 1051-4.
Journal Article	Burrage M, Dahiya A , Ng AC, Korczyk D. Multimodality imaging of a rare case of cardiac lipomatosis. Eur Heart J Cardiovasc Imaging 2017;18:115 (published 27 Sep 2016).
Journal Article	Parsonage W , Lust K . 'Cardiac disease in pregnancy' in 'Examination Obstetrics and Gynaecology' 4th Edition 2017 Eds. Goh J and Flynn M. Elsevier ISBN 9780729542524.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Atherton JJ. The year in heart failure. 3rd International 4 Corners of Cardiology Meeting, Melbourne, February 2016.
Invited	Atherton JJ. An update on the management of chronic heart failure. National webcast, Novartis Office, Sydney, March 2016.
Invited	Atherton JJ. Update in Heart Failure - What it means to clinical practice. Mt Elizabeth Medical Centre, Singapore, May 2016.
Invited	Atherton JJ. Management of chronic heart failure. Singapore Cardiac Society (SCS) 28th Annual Scientific Meeting, Singapore, May 2016
Invited	Atherton JJ. What the cardiologist must do before considering a genetic test. International Clinical Cardiovascular Genetics Conference Educational Day, Brisbane Convention and Exhibition Centre, May 2016. (flight delays prevented my on-time arrival, so talk given by Dominic Abrams).
Invited	Atherton JJ. Risk stratification and sudden death. International Clinical Cardiovascular Genetics Conference, Brisbane Convention and Exhibition Centre, May 2016.
Invited	Atherton JJ. Debate: You only treat the phenotype, not the genotype: FOR. International Clinical Cardiovascular Genetics Conference, Brisbane Convention and Exhibition Centre, May 2016.
Invited	Atherton JJ. Multidisciplinary State-specific management of heart failure workshop. Heart Failure 2016, Pullman and Mecure Albert Park, Melbourne, June 2016.
Invited	Atherton JJ. Heart failure detection using saliva (Keynote speaker). 1st Saliva Technology Application Research Symposium (STARS) 2016, Queensland University of Technology, July 2016.
Invited	Atherton JJ. 2nd Rising Star Mentor/ Mentee Dinner. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, South Australian Health and Medical Research Institute (SAHMRI), Adelaide, August 2016.
Invited	Atherton JJ. Iron deficiency in heart failure. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Invited	Atherton JJ. Heart failure- What is different in the Asia-Pacific? European Society of Cardiology (ESC) Congress 2016, Rome, Italy, August 2016.
Invited	Atherton JJ. Development of a statewide heart failure disease management service. Nigerian Cardiac Society 45th Annual General and Scientific Meeting, Abuja, Nigeria, September 2016. (not attended in person due to Visa delays)
Invited	Atherton JJ. Diagnosis of heart failure. Nigerian Cardiac Society 45th Annual General and Scientific Meeting, Abuja, Nigeria, September 2016. (not attended in person due to Visa delays)
Invited	Atherton JJ. Managing the heart failure patient- the past, the present and the future. Nigerian Cardiac Society 45th Annual General and Scientific Meeting, Abuja, Nigeria, September 2016. (not attended in person due to Visa delays)
Invited	Atherton JJ. Echo in infiltrative cardiomyopathies. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.
Invited	Prasad, SB. Diastolic Function Guidelines 2016. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.
Invited	Prasad, SB. Co-aortation of the Aorta. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.
Invited	Hammett CJ. Plenary Lecture. Management of STEMI patients with multivessel disease – just culprit lesion, or complete make-over?. Philippines Heart Association Annual Convention & Scientific Meeting, 25 May 2016.
Invited	Hammett CJ. Management of NOACs in patients undergoing cardiac and non-cardiac procedures. 3rd International 4 Corners of Cardiology Meeting, Melbourne 6 February 2016.
Invited	Hammett CJ. ACS Systems of Care Leaders Forum 2016, Sydney 23-25 July 2016. Regional ACS care – what have we learned from SNAPSHOT?
Invited	Hammett CJ. Use of medications to reduce the short and long term risk for ACS patients – the PERMIT Programme consensus recommendations. Cardiac Society of Australia and New Zealand 64th Annual Scientific Meeting, Adelaide 5 August 2016.
Invited	Hammett CJ. STEMI and ACS Update 2016. Cardiology Congress Round Up, Sydney 17 September 2017.
Invited	Hammett CJ. Systems of care for STEMI in Australia – Challenging the Status Quo. STEMI Experts Forum Melbourne 16 September 2016.
Invited	Hammett CJ. Minimising risk for patients on anticoagulant therapy undergoing procedures. Thrombosis College Cardiovascular Alliance meeting, Sydney 7 May 2016.
Invited	Dahiya A. Pericardial diseases Cardiac Society of Australia and New Zealand 64th Annual Scientific Meeting, Adelaide, August 2016.
Invited	Dahiya A. Multi-modality imaging. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Dahiya A. Interesting cases. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.
Invited	Dahiya A. Cardio-oncology. Australasian Society for Ultrasound in Medicine (ASUM) 46th Annual Scientific Meeting (Theme: State of the Art Echocardiography), Brisbane, October 2016.
Oral – Nursing Prize Finalist	Milburn T, Ashover S, Skoien W, Cullen L, Greenslade J, Parsonage W. A Large Scale Implementation of the Adapt Accelerated Diagnostic Protocol into Clinical Practice in Queensland: Impact on Hospital Length of Stay and Admission Rates for Possible Cardiac Chest Pain. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Oral	Wu C-J, Atherton J , McPhail S, Courtney M, Jean KA, Hsu Y. Development of a tool to ensure consistency in delivering a cardiac-diabetes transcare program. Australasian Cardiovascular Nursing College Conference, Melbourne, March 2016.
Oral	Koitka K, Prasad S, Atherton J. Myofibrillar myopathy due to a novel desmin gene mutation presenting with cardiac conduction abnormality and arrhythmias. European Society of Cardiology Congress, Rome, Italy, August 2016
Oral	Milburn T, Ashover S, Skoien W, Parsonage W, Greenslade J, Bright S, Cullen L. Economic Impact of the Accelerated Chest Pain Risk Evaluation (ACRE) Project – A Large Scale Implementation of the ADAPT Accelerated Diagnostic Protocol into Clinical Practice. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016
Oral	Neumann JT, Soerensen N, Schwemer T, Ojeda F, Keller T, Renne T, Than M, Parsonage W , Schnabel R, Cullen L, Greenslade J , Zeller T, Karakas M, Blankenberg S, Westermann D Rapid measurement of a single troponin I combined with negative ECG allow accurate rule-out of NSTEMI in patients with suspected AMI. European Society of Cardiology (ESC) Congress 2016, Rome, Italy, August 2016.
Oral	Lancini D, Martin P, Cullen L, Greenslade J, Hammett C, Prasad S, Than M, Parsonage W. Impact of atrial fibrillation on outcomes after emergency chest pain presentation. 9th Annual Asia-Pacific Heart Rhythm Society (APHRS) Scientific Session. COEX, Seoul, South Korea, October 2016.
Oral	Lancini D, Martin P, Cullen L, Greenslade J, Hammett C, Prasad S, Than M, Parsonage W. The prognostic impact of atrial fibrillation in the emergency chest pain presentation. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand (CSANZ), Adelaide Convention Centre, Adelaide, August 2016.
Poster (Moderated)	Berry NM, Ullah S, Versace V, McCarthy A, Atherton J , Roder D, Koczwarra B, Coghlan D, Chowdhury MH, Clark RA. Heart failure following cancer therapy in patients with haematological malignancies aged 18 years and under: a linked health data analysis (1996-2009). Circulation 2016;133:AMP33. American Heart Association's Epidemiology and Prevention, Lifestyle and Cardiometabolic Health Scientific Sessions.
Poster (Moderated)	Parsonage W, Ashover S, Milburn T, Skoien W, Greenslade J, Cullen L Translation of the ADAPT accelerated diagnostic protocol into clinical practice: impact on hospital length of stay and admission rates for possible cardiac chest pain European Society of Cardiology (ESC) Congress 2016, Rome, Italy, August 2016.
Poster	Lau K, Martin P, Chia K, McGaughan J, Atherton J. Long QT syndrome associated with a mutation in the beta3 subunit of the cardiac sodium channel (SCN3B) gene in two siblings. Heart Lung Circ 2016;25(Suppl 2):S284. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Kwan C, Prasad S, Guppy-Coles K, Carr L, Camuglia A, Dooris M, Atherton J. E/E' ratio as a noninvasive measure of left ventricular filling pressure in patients with non-ST elevation acute coronary syndromes (NSTEACS). Heart Lung Circ 2016;25(Suppl 2):S227. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Grover S, Lloyd R, Perry R, Lou P, Srinivasan G, Haan E, Yeates L, Woodman R, Atherton J , Semsarian C, Selvanayagam J. Assessment of myocardial oxygenation, strain and diastology in MBYPC3 hypertrophic cardiomyopathy: A cardiovascular magnetic resonance and echocardiography study. Heart Lung Circ 2016;25(Suppl 2):S74. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Michael A, Prasad S, Hammett C, Atherton J. Impact of the introduction of CT coronary angiography on alternative tests for the diagnosis of coronary artery disease: Australia-wide. Heart Lung Circ 2016;25(Suppl 2):S47. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Khan E, Brieger D, Amerena J, Atherton J , Farshid A, Ilton M, Juergens C, Kangaharan N, Rajaratnam R, Sweeney A, Walters D, Chow C. Gender differences in hospital management of ST-Elevation myocardial infarction patients. Heart Lung Circ 2016;25(Suppl 2):S46. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Lin A, Kwan C, Sippel J, Guppy-Coles K, Hammett C, Thomas L, Atherton JJ, Prasad SB. E/e' is a powerful predictor of survival after a first-ever non-ST elevation myocardial infarction. American Heart Association Scientific Sessions, New Orleans, USA, November 2016.
Poster	Neumann JT, Soerensen N, Ojeda F, Schwemer T, Keller T, Renne T, Landmesser U, Clemmensen P, Schnabel R, Zeller T, Karakas M, Than M, Parsonage W, Greenslade J, Cullen L , Blankenberg S, Westermann Immediate Rule-out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-sensitivity Troponin I. American Heart Association Scientific Sessions, New Orleans, USA, November 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Skoien W, Ashover S, Milburn T, Page K, Cullen L, Parsonage W . Research Translation: Implementation of the Queensland Accelerated Chest Pain Risk Evaluation (ACRE) Project. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Freeman V, Hammett C, Stewart P, Martin P . Exertional Syncope in Athletic Middle Aged Males without Angina: Consider Ischaemic Ventricular Tachycardia. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Astley C, Ranasinghe I, Brieger D, Ellis C, Redfern J, Briffa T, Aliprandi-Costa B, Howell T, Bloomer S, Gamble G, Driscoll A, Hyun K, Hammett C , Chew D. Expertise and Infrastructure Capacity Impacts Acute Coronary Syndrome Outcomes. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Etaher A, Chew DP, Redfern J, Cullen L, Lefkovits J, Ellis C, Hammett CJ , Elliott J, Briffa TG, Brieger D, French JK. Cardiac Troponins, type II myocardial infarction and late mortality: A report from the Australian and New Zealand 2012 SNAPSHOT ACS study. European Society of Cardiology (ESC) Congress 2016, Rome, Italy, August 2016.
Poster	Scott AC, McDonald A , Cuskelly L, Best D, Poole, L, Fairhall S, Tele-super-educating our rural colleagues to achieve diagnostic quality exercise stress tests. Cardiac Society of Australia and New Zealand Conference. Adelaide, August 2016.
Poster	Binny S, Scott AC, McDonald A, Parsonage W, Dahiya A . Comparing representation rates between cardiac imaging modalities for intermediate risk chest pain repeat presenters in a 4 year cohort. Cardiac Society of Australia and New Zealand Conference, Adelaide, August 2016.
Poster	Binny S, Atherton J, McGaughan J , Noonan K, Lancini D , Martin P. Brugada pattern resolution after endocardial ablation in a patient with Brugada ARVC Overlap: A case report in SCN5A variant Brugada syndrome. 9th Annual Asia-Pacific Heart Rhythm Society (APHS) Scientific Session, COEX, Seoul, South Korea, October 2016.
Poster	Lin A, Jeffries C, Camuglia A, Wahi S, Cole C, Mundy J, Garrahy P, Dahiya A . <u>Novel Protocol to Facilitate Low Contrast Dose Computed Tomography Angiography Before Transcatheter Aortic Valve Replacement: Initial Experience</u> . 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Binny S, Dahiya A , Ranjan S, Platts D, Challa P. <u>A Case of Ventricular Septal Defect in a Proximal Right Coronary Artery NSTEMI with Successful Delayed Closure with Amplatzer Occluder Device</u> . 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.
Poster	Carr L, Mohasseb I, Dooris M, Lo A, Prasad S, Dahiya A . <u>Unusual Cause of Cardiomyopathy in 21-Year-Old Female- Anomalous Left Coronary Artery from the Pulmonary Artery (ALCAPA)</u> . 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Convention Centre, Adelaide, August 2016.

Other communications and outputs

Atherton, JJ: Channel 7 National News (4pm and 6pm slots), July 2016: Saliva testing in heart disease.

Atherton JJ: Sydney Morning Herald, October 2016: Heart disease in women. Titled “Cardiologists call for overhaul of male-centric heart guidelines”. Published in Sydney Morning Herald, The Age, WA Today, Brisbane Times, The Canberra Times, and a number of regional and rural areas.

Chen L, Chan YK, Ahamed Y, Ball J, Keates AK, Pouncy J, Løchen ML, Jennings GL, **Atherton JJ**, Stewart S. Hidden Hearts: Cardiovascular risk and disease in Australian women. October 2016. Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, Australia.

Atherton JJ. Allori: Circulate (Heart failure e-newsletter)- Editorial Advisor: Issue 1 (August 2016), Issue 2 (November 2016).

Atherton JJ. Heart Failure Research Review (2nd monthly publication): Issues 32, 34, 36, 38, 40.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Cardiology	32	1	36	19

Department of Clinical Immunology

Two papers were published and Dr Solley presented the prestigious Basten Oration at the Annual scientific meeting of the Australasian Society of Clinical Immunology and Allergy.

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Navarro S, Pickering DA, Ferreira IB, Jones L, Ryan S, Troy S, Leech A, Hotez PJ, Zhan B, Laha T, Prentice R, Sparwasser T, Croese J, Engwerda CR, Upham JW, Julia V, Giacomini PR, Loukas A. Hookworm recombinant protein promotes regulatory T cell responses that suppress experimental asthma. <i>Sci Transl Med.</i> 2016;26(8),362.
Journal article	McGain F, Welton R, Solley GO, Winkel KD. First fatalities from tick bite anaphylaxis. <i>J Allergy Clin Immunol Pract.</i> 2016 4(4):769-70.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Solley G. My Career in Allergy. State meeting ASCIA Brisbane April 2016
Oral Invited Speaker	Solley G . Early advances in IgE antibody and eosinophil function. Basten Oration ASCIA ASM Gold Coast September 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Clinical Immunology and Allergy	2	0	2	0



Department of Clinical Pharmacology

The Department of Clinical Pharmacology has a number of research focuses, across multiple professional disciplines, reflecting the multidisciplinary makeup of the department. Research staff work collaboratively with the Department of Pharmacy, in areas related to medication safety, the quality use of medicines and the expanding professional role of pharmacists. Clinical Pharmacology continues to work collaboratively with other hospitals within Metro North Hospital and Health Service (Prince Charles Hospital) and Brisbane (Princess Alexandra Hospital) relating, in particular, to the quality use of medicines.

In addition, the department has begun to focus on the role of individualised feedback, of both nursing and medical staff, related to the safety of prescribing and administration of medicines. Karen Davies, Clinical Nurse Consultant for Medication Safety continues to pursue this work and has recently enrolled in PhD studies. A RBWH foundation grant was utilised in 2016 that expanded upon pilot work that demonstrated remarkable improvements in the accuracy and safety of medical officer prescribing after individualised feedback on prescribing practices. Dr Donovan, Director of Clinical Pharmacology, continues to expand his research interests in the cost-effectiveness of health care and continues to work collaboratively with researchers from within and external to RBWH.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Brooke Myers	PhD, UQ (2014-current)	Role of the Pharmacist on the Medical Post-Take Ward Round	Ian Coombes , Charles Mitchell, Peter Donovan , Jennifer Whitty

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Donald McLeod (Endocrinology)	Peter Donovan (Clinical Pharmacology) Michael Keogh (Endocrinology)	Treat-to-Target TRAb in Graves' Disease
Phillip Robinson (Rheumatology)	Peter Donovan (Clinical Pharmacology) Nicola Dalbeth (University of Auckland, Auckland Hospital)	A Health Economic Analysis Of The American College Of Rheumatology Guideline To Monitor Serum Urate Every 6 Months After Reaching Target In Gout Treatment
Ian Coombes (Pharmacy)	Peter Donovan (Clinical Pharmacology) Michael Barras (Pharmacy) Charles Mitchel (UQ) Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell (Gold Coast University Hospital)	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback
Hannah Farquhar (Medicine)	Don McLeod (Endocrinology) Peter Donovan (Clinical Pharmacology) Roger Allison (Cancer Care) Susan Thomas (Cancer Care) Lee Tripcony (Cancer Care)	Validating a response to therapy risk stratification system for Medullary Thyroid Cancer
Peter Donovan (Clinical Pharmacology)	Christine Rowland (Greenslopes Private Hospital) Emma Duncan (Endocrinology) Alison Mudge (Internal Medicine) Paul Tesar (Radiology)	Teriparatide for Pelvic Fracture Healing
Peter Donovan (Clinical Pharmacology)	Donald McLeod (Endocrinology) Louisa Gordon (QIMR Berghofer)	Cost Utility Analysis of the Primary Therapies for Graves' Disease

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Brooke Myers (Gold Coast University Hospital)	Ian Coombes (Pharmacy) Charles Mitchel (UQ) Peter Donovan (Clinical Pharmacology) Jennifer Whitty (University of East Anglia)	Role of the Pharmacist on the Medical Post-Take Ward Round

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Ian Coombes, Peter Donovan , Michael Barras, Charles Mitchel, Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell	Pharmacy, Clinical Pharmacology	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback	RBWH Foundation	\$40,000	\$40,000

2016 Research Publications

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Journal article	Pattullo CS , Barras M, Tai B, McKean M, Donovan PJ . New Oral Anticoagulants (NOACs) - appropriateness of prescribing in real- world setting: NOACs - appropriateness of prescribing. Intern Med J. 2016 Jul;46(7):812-8.
Journal article	McRae PJ, Walker PJ, Peel NM, Hobson D, Parsonson F, Donovan P, Reade MC, Marquart L, Mudge AM . Frailty and Geriatric Syndromes in Vascular Surgical Ward Patients. Ann Vasc Surg. 2016 Aug;35:9-18. doi: 10.1016/j.avsg.2016.01.033. Epub 2016 May 27.
Journal article	Donovan PJ, McLeod DS , Little R, Gordon L. Cost-Utility Analysis Comparing Radioactive Iodine, Antithyroid Drugs and Total Thyroidectomy for Primary Treatment of Graves' Disease. Eur J Endocrinol. 2016 Dec;175(6):595-603. Epub 2016 Sep 15.
Journal article	Keogh, Samantha, Flynn, Julie, Marsh, Nicole, Mihala, Gabor, Davies, Karen , & Rickard, Claire. Varied flushing frequency and volume to prevent peripheral intravenous catheter failure: A pilot, factorial randomised controlled trial in adult medical-surgical hospital patients. Trials. 2016. 17(1):348. doi: 10.1186/s13063-016-1470-6.



Department of Endocrinology

The Department of Endocrinology and Diabetes is staffed by 13 medical, two administrative, four allied health professionals, three research nurses, two diabetes nurse educators, one podiatrist, one dietitian and three scientists.

Clinical services provided include in-patient consultative services at RBWH and specialised out-patient clinics at RBWH and Bundaberg Hospital.

The department contributes to the Statewide Thyroid Cancer Clinic held with members of Cancer Care Services. It also supports the Obstetric Endocrine Clinic service for Women's and Newborn Services. It provides outreach services to Bundaberg and telehealth services in maternity health, endocrinology and complex Type 2 Diabetes to hospitals in the Central zone.

Clinical research activities include an active clinical trials unit. Chronic disease funding is underwriting projects in management of Diabetes in Pregnancy and Type 2 Diabetes. The Conjoint Endocrine Laboratories, a joint venture of Internal Medicine Services and Pathology Queensland undertakes studies at a basic science level of placental iodide and thyroid hormone handling as well as assessing testosterone transport and action.

Associate Professor Emma Duncan has a major role within the Department to promote and undertake research. There are now three doctoral students. The department has developed strong links with several research departments and has started major clinical studies in several areas including:

- HIV disease and bone.
- Pheochromocytoma and bone disease.
- Genetics of Pheochromocytoma.
- Genetics of Thyroid Cancer.
- Genetics of Skeletal Dysplasia.
- Genetics of Osteogenesis imperfecta.
- Genome wide association studies of osteoporosis.

Dr Don McLeod leads the thyroid service and is pursuing research in aspects of the epidemiology of Thyroid Cancer.

The department has developed the first gestational diabetes decision support tool for the management of diabetes. Data on all patients managed in the department is now captured at every clinic visit. This has led to the potential to do clinical trials and outcome audit of all patients with diabetes in pregnancy. This has led to collaboration with the Departments of Obstetric Medicine and Neonatology.

On-going Research projects:

Basic Science

- Placental handling of thyroid hormone and iodine.
- The role of HDL in thyroid hormone transport.
- Testosterone transport and action in androgen-dependent tissues.

Clinical Trials

- 12 Studies.

Research staff

- Assoc. Prof. Michael d’Emden PhD, FRACP Director Endocrinology clinical trials, chronic disease, thyroid hormone action, testosterone transport.
- Assoc. Prof. Emma Duncan PhD, FRACP Senior Staff Specialist genetics of endocrinology, clinical bone disease.
- Dr Don McLeod, Staff Endocrinologist; thyroid disease.
- Dr Maree Mungomery FRACP Visiting Medical Officer chronic disease, diabetes telehealth project.
- Dr Kerry Richard PhD Senior Scientist thyroid hormone, iodine and placenta.
- Dr Huika Li MB, testosterone transport.
- Dr Kelly Landers PhD Research Assistant thyroid hormone, iodine and placenta.
- Erika Tapp BHLthSc Research Assistant clinical trials.
- Helen Legg BNurs Research Assistant clinical trials.
- Liz Lahz BNurs Research Assistant clinical trials.

Project Officer chronic disease projects

- Sharon Chambers RN Project Officer chronic disease projects.

2016 Research Papers

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Syndia Lazarus, Hsu-Wen Tseng, Felicity Lawrence, Mia Woodruff, Emma Letitia Duncan, Allison Robyn Pettit. "Characterisation of murine carpal bone development prompts re-evaluation of pathological osteolysis as the cause of human carpal-tarsal osteolysis syndromes". Accepted, Am J Path, May 2017.
Journal	Katherine English, Warrick J Inder, Zara Weedon, Jane Sorbello, Anthony W Russell, Emma L Duncan, Ross Cuneo. "Prospective evaluation of a day 6 overnight metyrapone test with dynamic assessment of hypothalamic-pituitary-adrenal axis function after pituitary surgery." Accepted, Clin Endocrinol, March, 2017.
Journal	Aidan Flynn, Trisha Dwight, Diana Benn, Sidhartha Deb, Andrew J Colebatch, Stephen Fox, Jessica Harris, Emma L Duncan, Bruce Robinson, Annette Hogg, Jason Ellul, Henry To, Cuong Duong, Julie A Miller, Christopher Yates, Paul James, Alison Trainer, Anthony J Gill, Roderick Clifton-Bligh, Rodney J Hicks, Richard W Tothill. "Cousins not twins: intra and inter-tumoral heterogeneity in the context of syndromic neuroendocrine tumors." Accepted, J Path, February 2017.
Journal	McInerney-Leo AM, Wheeler L, Marshall MS, Anderson LK, Zankl A, Brown MA, Leo PJ, Wicking C, Duncan EL. "Homozygous variant in C21ORF2 in a case of Jeune syndrome with severe thoracic involvement: extending the phenotypic spectrum." Accepted, Am J Human Genet Part A, February 2017.
Journal	Philip C. Robinson, Paul J. Leo, Jennifer J. Pointon, Jessica Harris, Katie Cremin, Linda A. Bradbury, Australian Osteoporosis Genetics Consortium, Wellcome Trust Case Control Consortium, Simon Stebbings, Andrew A. Harrison, David M. Evans, Emma L. Duncan, B. Paul Wordsworth, Matthew A. Brown 2016 Exomewide study of ankylosing spondylitis demonstrates additional shared genetic background with inflammatory bowel disease". Genomic Medicine, 1 16008
Journal	Jimena Barraza-García, Carlos I. Rivera-Pedroza,, Alfonso Hisado-Oliva, Alberta Belinchón, Lucía Senthordi, Emma L Duncan, Graeme R Clark, Angela del Pozo Kristina Ibáñez-Garikano Pablo Prieto-Matas, Valerie Cormier-Daire, Karen E. Heath. "Broadening the spectrum of skeletal dysplasias caused by POP1 mutations". Clin Genet, E-published, 9 January 2017.
Journal	Niu, T., N. Liu, X. Yu, M. Zhao, H. J. Choi, P. J. Leo, M. A. Brown, L. Zhang, Y. F. Pei, H. Shen, H. He, X. Fu, S. Lu, X. D. Chen, L. J. Tan, T. L. Yang, Y. Guo, N. H. Cho, J. Shen, Y. F. Guo, G. C. Nicholson, R. L. Prince, J. A. Eisman, G. Jones, P. N. Sambrook, Q. Tian, X. Z. Zhu, C. J. Papsian, E. L. Duncan, A. G. Uitterlinden, C. S. Shin, S. Xiang and H. W. Deng (2016). "Identification of IDUA and WNT16 Phosphorylation-Related Non-Synonymous Polymorphisms for Bone Mineral Density in Meta-Analyses of Genome-Wide Association Studies." J Bone Miner Res 31(2): 358-368.
Journal	Wade, E. M., P. B. Daniel, Z. A. Jenkins, A. McInerney-Leo, P. Leo, T. Morgan, M. C. Addor, L. C. Ades, D. Bertola, A. Bohring, E. Carter, T. J. Cho, H. C. Duba, E. Fletcher, C. A. Kim, D. Krakow, E. Morava, T. Neuhann, A. Superti-Furga, I. Veenstra-Knol, D. Wieczorek, L. C. Wilson, R. C. Hennekam, A. J. Sutherland-Smith, T. M. Strom, A. O. Wilkie, M. A. Brown, E. L. Duncan, D. M. Markie and S. P. Robertson (2016). "Mutations in MAP3K7 that Alter the Activity of the TAK1 Signaling Complex Cause Frontometaphyseal Dysplasia." Am J Hum Genet 99 (2): 392-406.
Journal	Cortes, C. R., A. M. McInerney-Leo, I. Vogel, M. C. Rondon Galeano, P. J. Leo, J. E. Harris, L. K. Anderson, P. A. Keith, M. A. Brown, M. Ramsing, E. L. Duncan, A. Zankl and C. Wicking (2016). "Mutations in human C2CD3 cause skeletal dysplasia and provide new insights into phenotypic and cellular consequences of altered C2CD3 function." Sci Rep 6 : 24083.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	McInerney-Leo, A. M., J. E. Harris, M. Gattas, E. E. Peach, S. Sinnott, T. Dudding-Byth, S. Rajagopalan, C. P. Barnett, L. K. Anderson, L. Wheeler, M. A. Brown, P. J. Leo, C. Wicking and E. L. Duncan (2016). "Fryns Syndrome Associated with Recessive Mutations in PIGN in two Separate Families." <i>Hum Mutat</i> 37(7): 695-702.
Journal	McInerney-Leo, A. M., C. Le Goff, P. J. Leo, T. J. Kenna, P. Keith, J. E. Harris, R. Steer, C. Bole-Feysoy, P. Nitschke, C. Kieilty, M. A. Brown, (last 3 equal senior authors) A. Zankl, E. L. Duncan and V. Cormier-Daire (2016). "Mutations in LTBP3 cause acromicric dysplasia and geleophysic dysplasia." <i>J Med Genet</i> 53(7): 457-464.
Journal	Flynn, A., T. Dwight, J. Harris, D. Benn, L. Zhou, A. Hogg, D. Catchpole, P. James, E. L. Duncan, A. Trainer, A. J. Gill, R. Clifton-Bligh, R. J. Hicks and R. W. Tothill (2016). "Pheo-Type: A Diagnostic Gene-expression Assay for the Classification of Pheochromocytoma and Paraganglioma." <i>J Clin Endocrinol Metab</i> 101(3): 1034-1043.
Journal	Philip C. Robinson, Paul J. Leo, Jennifer J. Pointon, Jessica Harris, Katie Cremin, Linda A. Bradbury, Australian Osteoporosis Genetics Consortium, Wellcome Trust Case Control Consortium, Simon Stebbings, Andrew A. Harrison, David M. Evans, Emma L. Duncan, B. Paul Wordsworth, Matthew A. Brown 2016 Exomewide study of ankylosing spondylitis demonstrates additional shared genetic background with inflammatory bowel disease". <i>Genomic Medicine</i> , 1 16008.
Journal	Achong, N., H. D. McIntyre, L. Callaway and E. L. Duncan (2016). "Glycaemic behaviour during breastfeeding in women with Type 1 diabetes." <i>Diabet Med</i> 33(7): 947-955.
Journal	Robinson PC, Leo PJ, Pointon JJ, Harris J, Cremin K, Bradbury LA, Stebbings S, Harrison AA, Evans DM, Duncan EL, Wordsworth BP, Brown MA 2016 The genetic associations of acute anterior uveitis and their overlap with the genetics of ankylosing spondylitis. <i>Genes Immun</i> 17(1):46-51
Journal	Gregson CL, Wheeler L, Hardcastle SA, Appleton LH, Addison KA, Brugmans M, Clark GR, Ward K, Paggiosi M, Stone M, Thomas J, Agarwal R, Poole K, McCloskey E, Fraser WD, Williams E, Bullock AN, Smith GD, Brown MA, Tobias JH, Duncan EL 2016 Mutations in Known Monogenic High Bone Mass Loci Only Explain a Small Proportion of High Bone Mass cases. <i>J Bone Miner Res</i> . 31(3):640-9
Journal	WH Lim and EL Duncan . "Is there a role or target value for nutritional vitamin D in chronic kidney disease (CKD)?" Accepted, January 2017. <i>Nephrology</i> . Proceedings of joint ANZBMS-ANZSN meeting on Chronic Kidney Disease – Mineral Bone Disease
Journal	EL Duncan Editorial "the Known Unknowns...". Accepted, February 2017. <i>Nephrology</i> . Proceedings of joint ANZBMS-ANZSN meeting on Chronic Kidney Disease – Mineral Bone Disease
Journal	Clarke M, Dover T, Duncan EL 2017 New and emerging therapies for osteoporosis <i>Endocrinology Today</i> Feb.
Journal	Douglas Kiel, Emma Duncan, Fernando Rivedeneira. "Human Genome-Wide Association Studies" Primer for the American Society for Bone and Mineral Research (ed. C. Rosen). Accepted, January 2017.
Journal	McLeod DSA. A papillary thyroid cancer with minimal extra-thyroidal extension. Invited chapter: Thyroid Cancer: A Case Based Approach (eds: Cooper DS & Durante C). 2016: 61-72
Journal	Pandeya N, McLeod DSA, Balasubramaniam K, Baade P, Youl P, Bain C, Allison R, Jordan SJ. Increasing thyroid cancer incidence in Queensland, Australia 1982-2008 – true increase or over-diagnosis? <i>Clinical Endocrinology</i> . 2016; 84: 257-64
Journal	Neale RE, Armstrong BK, Baxter C, Duarte Romero B, Ebeling P, English D, Kimlin M, McLeod DSA, O'Connell R, van der Pols J, Venn A, Webb PM, Wockner L, Whiteman DC. The D-Health Trial – a randomized placebo-controlled trial of vitamin D for prevention of cancer and mortality. Methods and cohort description. <i>Contemporary Clinical Trials</i> . 2016; 48: 83-90
Journal	Donovan PJ, McLeod DSA, Little R, Gordon L. Cost-Utility Analysis Comparing Radioactive Iodine, Antithyroid Drugs and Total Thyroidectomy for Primary Treatment of Graves' disease. Methods and cohort description. <i>European Journal of Endocrinology</i> . 2016; 175: 595-603
Journal	Landers K and Richard K (2017) Traversing barriers: how thyroid hormones cross the placental, blood-brain and blood-cerebrospinal fluid barriers. Invited review in <i>Molecular and Cellular Endocrinology</i> http://dx.doi.org/10.1016/j.mce.2017.01.041
Journal	Dawson PA, Richard K, Perkins A, Zhang Z and Simmons DG (2017) Review: Nutrient sulphate supply from mother to fetus: Placental adaptive responses during human and animal gestation. <i>Placenta</i> . http://dx.doi.org/10.1016/j.placenta.2017.01.001
Journal	Richard K, Landers K, Vanderlelie JJ, Hofstee P, Cuffe J, Perkins A (2016) Review: Effects of maternal micronutrient supplementation on placental function. <i>Placenta</i> . dx.doi.org/10.1016/j.placenta.2016.12.022
Journal	Li H, Pham T, McWhinney BC, Ungerer JP, Pretorius CJ, Richard DJ, Mortimer RH, d'Emden MC and Richard K (2016) Sex hormone binding globulin modifies testosterone action and metabolism in prostate cancer cells. <i>International Journal of Endocrinology</i> doi.org/10.1155/2016/643758
Journal	SASH1 mediates sensitivity of breast cancer cells to chloropyramine and is associated with prognosis in breast cancer (2016) Burgess JT, Bolderson E, Saunus JM, Zhang S-D, Reid LE, McNicol AM, Lakhani SR, Cuff K, Richard K, Richard DJ, O'Byrne KJ <i>Oncotarget</i> DOI: 10.18632/oncotarget.12020
Journal	Pham T, Sadowski MC, Li H, Richard DJ, d'Emden MC and Richard K (2016) Advances in hormonal therapies for hormone naïve and castration-resistant prostate cancers with or without previous chemotherapy. <i>Experimental Hematology and Oncology</i> 5: 15
Journal	Molehin D, Dekker M and Richard K (2016) Prenatal exposures to multiple thyroid hormone disruptors: effects on glucose and lipid metabolism. <i>The Journal of Thyroid Research</i> .

Department of Gastroenterology

Colorectal cancer is the second most common cause of cancer death in Australia. It can be prevented by removal of precursor polyps at colonoscopy but colonoscopy is invasive and expensive so must be targeted effectively. In addition colonoscopy sometimes fails to protect against cancer. Our research group, led by Professor Leggett is making significant contributions to knowledge about the biology of colorectal polyps thus guiding their management.

We have identified that some types of serrated polyps have high malignant potential and account for 20% of all colorectal cancers. This has resulted in a world-wide change in colonoscopy practice with these lesions now targeted for identification and removal. Some patients with serrated polyposis still need colectomy to control their disease and we are now working on development of chemoprevention. This research is conducted as part of successful collaboration between RBWH, Pathology Queensland, Envoy Specialist Pathologists and QIMR Berghofer. The importance of our research is reflected in invitations to lecture at major national and international scientific meetings.

The aims of the liver research group are to identify patients at risk of progression to end stage cirrhosis and hepatocellular cancer and to intervene to prevent this progression. Chronic Hepatitis C is a major public health problem affecting approximately 1.5% of Australians. In 2016 new medications to cure Hepatitis C became available and we have introduced new models of care to deliver these medications efficiently. We are studying the outcomes of therapy and presented interim results at the Symposium winning the best clinical science poster.

Dr Skoien continues to operate a research programme in the field of clinical hepatology, new models of care in chronic liver disease and translational medicine. In 2016, further work was completed on discovering a novel biomarker in hepatocellular carcinoma (the sixth most common cancer and second leading cause of cancer death worldwide). This research has focused on the roles of microRNA in the development and detection of liver cancer and work on a panel of microRNAs that could be used to diagnose hepatocellular carcinoma at an earlier stage is ongoing. The Hepatoma and Compensated Cirrhosis Follow-up (HACC-FOL) programme developed by Dr Skoien has now been adopted as standard of care at the RBWH and is being actively explored as a new patient surveillance model in other centres. Finally, strong collaborative links with QIMR-Berghofer and other hospitals/institutions have been consolidated to maximise research capacity in the field of hepatology on the RBWH campus.

Inflammatory Bowel Diseases are continuing to increase in incidence across the Asia-Pacific. On average, 17 Australians will be diagnosed with Crohn's disease or ulcerative colitis every day of the year. Our GI research group, led by A/Professor Radford-Smith has contributed to the development of genetic risk scores for stratifying IBD patients, and combining these with biomarkers to improve diagnostic accuracy. The group is also developing strategies to optimize the use of colonoscopy services by the development of risk assessment tools for primary and secondary healthcare providers.

The Endoscopy research group is working on optimising the surveillance and management of inherited GI cancer syndromes, including studies on novel compounds (in collaboration with CSIRO) on the natural history of Familial Adenomatous Polyposis.

The group is also performing clinical research into diagnostic and therapeutic small bowel endoscopy including leading a multi-centre international trial on the effect of bowel preparation before video capsule endoscopy.

Collaboration with CSIRO is ongoing in the field of reconstructing virtual 3-D models of colons, in an automated fashion calculated from data from the standard 2-dimensional colonoscopy video images.

Endoscopy outcomes research is also a focus including collaboration in a multicentre ANZ audit into the adenoma detection rate as a quality indicator in colonoscopy.

Dr Walsh is leading the departmental experience in the use of endoscopy in bariatric patients and has one of the largest experiences in Australia.

Dr Devereaux has an increasing international reputation and regularly performs live cases internationally. He is the clinical lead in pancreatology.

Dr Huang has recently returned from the United States and is continuing to develop endoscopic methods of measuring portal hypertension.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Dr Yoon-Kyo An	MPhil student	Endoscopy in IBD: Evaluation of implementing endoscopic assessment of mucosal healing in IBD and its safety in clinical practice	Dr Mark Appleyard
Dr Cheng Lui	PhD, UQ (2016-2018)	Molecular characterisation of serrated precursors in colorectal carcinoma	A/Prof Vicki Whitehall, Prof Barbara Leggett , A/Prof Neal Walker, Dr Mark Bettington
Dr Jennifer Borowsky	MPhil, UQ (2016-2018)	Morphological and molecular characterisation of colorectal adenomas and carcinomas	A/Prof Vicki Whitehall, Prof Barbara Leggett , A/Prof Neal Walker, Dr Mark Bettington, Dr Ian Brown
Anna Weis	PhD, The University of Queensland (2015-2017)	New non-invasive methods to detect progression of liver disease and identify patients at highest risk of cirrhosis-related mortality	Dr Richard Skoien , Grant Ramm
Dr Des Patrick	MPhil UQ (2015–2017), submitted	Effect of pre-admission immunosuppressive therapy and regional transfer versus metropolitan hospital presentation on colectomy rates in severe ulcerative colitis	Dr G Radford-Smith, Dr M Howlett
Dr James Irwin	MPhil UQ (2013-2016) - awarded	Longitudinal predictors of poor outcome in Crohn's disease	Dr G Radford-Smith
Dr Zubin Grover	PhD UQ (2011-2016)	Exclusive enteral nutrition and mucosal healing in newly diagnosed children with Crohn's disease	Dr Peter Lewindon, Dr G Radford-Smith

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship (Conjoint fellow, Adjunct, Honorary)	Research Program	University Affiliation (years)
Dr Ana Braithwaite	Endoscopy	Endoscopy	N/A
Dr Richard Skoien	Senior Lecturer	School of Medicine	UQ (2012-current)
Dr Richard Skoien	Visiting Scientist	Hepatic Fibrosis Laboratory	QIMR-B (2013-current)
Dr Des Patrick	Conjoint Fellow	Inflammatory Bowel Diseases	UQ (2015-2017)
Dr Richard Cheng	Conjoint Fellow	Inflammatory Bowel Diseases	UQ (2015-2017)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Dr Mark Appleyard	Dr Jason Hwang, Dr Florian Grimpen	Does bowel preparation alter the diagnostic yield in capsule endoscopy?
Dr Benedict Devereaux	Dr Estella Johns	Asia Pacific SpyGlass Cholangioscopy Registry
Dr Patrick Walsh	Dr Joshua Satchwell	Endoscopic Suturing for Gastrojejunal Outlet Dilatation as a Treatment for Weight Regain After Roux-en-Y Gastric Bypass
Prof Barbara Leggett	Vicki Whitehall (QIMR-B)	The serrated pathway of colorectal carcinogenesis
Dr Richard Skoien	Anna Weis (QIMR-B), Grant Ramm (QIMR-B)	Serum markers in atypical liver lesions (SMALL) study
Dr Richard Skoien	Anna Weis and Grant Ramm (QIMR-B), Olivia Cullen and Karen Beckman (Gastroenterology and Hepatology)	Establishment of a clinical hepatology database and serum bank to study factors associated with chronic liver disease

Research Group / Department Lead Researchers	Collaborative Researchers (RBWH staff in bold)	Research Project Title
Dr Graham Radford-Smith	Members of the ANZ IBD Consortium (Grant Montgomery, Jane Andrews, Ian Lawrance, Richard Geary, Susie Connor et al)	Multiple studies in IBD
Dr Graham Radford-Smith	Simon Keely	Hypoxia and the intestinal immune system
Dr Graham Radford-Smith	Lisa Simms, Dr Mark Appleyard	Optimizing Gastrointestinal (GI) cancer screening in Queensland: the application of clinical, genetic and faecal biomarkers to improve the early detection of GI cancers

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Finlay Mcrae (Melbourne)/ CSIRO	Dr Florian Grimpén, Dr Mark Appleyard	AUSFAP study - The effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients
Armin MA, Chetty G, De Visser H, Dumas C, Salvado O. (CSIRO)	Dr Florian Grimpén	Automated visibility map of the internal colon surface from colonoscopy video
Gregor Brown (The Alfred Hospital, Melbourne)	Dr Florian Grimpén, Dr Mark Appleyard, Dr Lauren White	Using Adenoma Detection as a Quality indicator in colonoscopy: a multicentre ANZ Audit
Amy Legg	Dr Florian Grimpén, Dr Peter Donovan	PPI usage in RBWH inpatients – Indications and Appropriateness
Alan Cripps	Dr Benedict Devereaux	Mechanisms of mucosal immune regulation in obesity
Martin Delatycki (Austin Health) and Sim Yee Ong (Mi-iron Team)	Dr Richard Skoien	The relationship between serum ferritin and markers of liver fibrosis in a haemochromatosis cohort
Greg Anderson (QIMR-B)	Dr Graham Radford-Smith	A novel nanoparticulate iron supplement and its effect on the gastrointestinal tract.
Dr John Croese	Dr Graham Radford-Smith	Hookworm therapy for Coeliac Disease: A randomised, double blind, placebo-controlled clinical trial

Research Awards and Achievements

Recipient	Award	Event
Prof Barbara Leggett	Highly Commended award for innovation and creativity – research originality	Metro North 2016 Research Excellence Awards
Dr Alicia Braund	Best Clinical Sciences Poster	RBWH Research Symposium 2016
Dr Richard Skoien, Grant Ramm, Anna Weis	Department of Gastroenterology and Hepatology	Developing a novel blood test to improve the early diagnosis of liver cancer
Dr Richard Cheng	Young Investigator Prize 2016	GE Society of Queensland Annual Meeting 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Finlay Mcrae, Dr Mark Appleyard, Dr Florian Grimpén et al	Department of Gastroenterology and Hepatology	The effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients	Cancer Council	\$70,000	\$200,000 (2014-17)
Prof Barbara Leggett, Vicki Whitehall	Department of Gastroenterology and Hepatology	Identifying molecular drivers of colorectal tumorigenesis	RBWH Research Advisory Committee	\$40,000	\$40,000 (2016)
Vicki Whitehall, Prof Barbara Leggett, Pamela Pollack, Mark Bettington, Jason Lee	Department of Gastroenterology and Hepatology	Sessile serrated adenoma prevention in a preclinical study	Cancer Council Queensland	\$100,000	\$200,000 (2016-2017)
Vicki Whitehall, Prof Barbara Leggett, Mark Bettington	Department of Gastroenterology and Hepatology	Wnt and MAPK signalling in the determination of colorectal neoplasia pathway	NHMRC	\$127,815	\$383,445 (2014-2016)
Dr Graham Radford-Smith	Dept of Gastroenterology and Hepatology	A Diagnostic Algorithm for Inflammatory Bowel Disease'	RBWH Research Advisory Committee	\$40,000	\$40,000 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Li J, Woods SL, Healey S, Beesley J, Chen X, Lee JS, Sivakumaran H, Wayte N, Nones K, Waterfall JJ, Pearson J, Patch AM, Senz J, Ferreira MA, Kaurah P, Mackenzie R, Heravi-Moussavi A, Hansford S, Lannagan TR, Spurdle AB, Simpson PT, da Silva L, Lakhani SR, Clouston AD , Bettington M, Grimpen F , Busuttill RA, Di Costanzo N, Boussioutas A, Jeanjean M, Chong G, Fabre A, Olschwang S, Faulkner GJ, Bellos E, Coin L, Rioux K, Bathe OF, Wen X, Martin HC, Neklason DW, Davis SR, Walker RL, Calzone KA, Avital I, Heller T, Koh C, Pineda M, Rudloff U, Quezado M, Pichurin PN, Hulick PJ, Weissman SM, Newlin A, Rubinstein WS, Sampson JE, Hamman K, Goldgar D, Poplawski N, Phillips K, Schofield L, Armstrong J, Kiraly-Borri C, Suthers GK, Huntsman DG, Foulkes WD, Carneiro F, Lindor NM, Edwards SL, French JD, Waddell N, Meltzer PS, Worthley DL, Schrader KA, Chenevix-Trench G. Am J Hum Genet. Point Mutations in Exon 1B of APC Reveal Gastric Adenocarcinoma and Proximal Polyposis of the Stomach as a Familial Adenomatous Polyposis Variant. 2016 May 5;98(5):830-42
Journal article	Armin MA, Chetty G, De Visser H, Dumas C, Grimpen F , Salvado O. Automated visibility map of the internal colon surface from colonoscopy video. Int J Comput Assist Radiol Surg. 2016 Sep;11(9):1599-610
Journal article	<u>Aranda-Hernández J1, Hwang J1, Kandel G1</u> . Seeing better--Evidence based recommendations on optimizing colonoscopy adenoma detection rate <u>World J Gastroenterol</u> . 2016 Feb 7;22(5):1767-78
Journal article	Samarasena JB, Huang JY , Chin M, et al. Altered anatomy ERCP with spiral overtube-assisted stent placement. Gastrointest Endosc 2016 84 (4):738
Journal article	Huang JY , Samarasena JB, Tsujino T, et al. EUS-guided portal pressure gradient measurement with a novel 25-gauge needle device versus the standard transjugular approach: a comparison animal study. Gastrointest Endosc 2016 (2):358-362.
Journal article	Bettington ML, Walker NI, Rosty C, Brown IS, Clouston AD, McKeone DM, Pearson S-A, Klein K, Leggett BA , Whitehall VLJ. Serrated tubulovillous adenoma of the large intestine. Histopathology 2016; 68:578-587
Journal article	Bond CE, McKeone DM, Bettington ML, Pearson S, Kalimutho M, Dumenil T, Wockner L, Burge M, Leggett BA, Whitehall VLJ. RNF43 and ZNRF3 are commonly altered in serrated pathway colorectal tumorigenesis. Oncotarget 2016; 7:70589-70600
Journal article	Dore GJ, Conway B, Luo Y, Janczewska E, Knysz B, Liu Y, Streinu-Cercel A, Caruntu FA, Curescu M, Skoien R , Ghesquiere W, Mazur W, Soza A, Fuster F, Greenbloom S, Motoc A, Arama V, Shaw D, Tornai I, Sasadeusz J, Dalgard O, Sullivan D, Liu X, Kapoor M, Campbell A, Podsadecki T. Efficacy and safety of ombitasvir/paritaprevir/r and dasabuvir compared to IFN-containing regimens in genotype 1 HCV patients: The MALACHITE-I/II trials. J Hepatol. 2016 Jan;64(1):19-28.
Journal article	Baird AC, Mallon D, Radford-Smith G , Boyer J, Piche T, Prescott SL, et al. Dysregulation of innate immunity in ulcerative colitis patients who fail anti-tumor necrosis factor therapy. World journal of gastroenterology. 2016;22(41):9104-16.
Journal article	Chen JH, Andrews JM, Kariyawasam V, Moran N, Gounder P, Collins G, Walsh AJ, Connor S, Lee TW, Koh CE, Chang J, Paramsothy S, Tattersall S, Lemberg DA, Radford-Smith G , et al. Review article: acute severe ulcerative colitis - evidence-based consensus statements. Alimentary pharmacology & therapeutics. 2016;44(2):127-44.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Cleynen I, Boucher G, Jostins L, Schumm LP, Zeissig S, Ahmad T, Parkes M, Vermeire S, Rioux JD, Mansfield J, Silverberg MS, Radford-Smith G , McGovern DP, Barrett JC, Lees CW. Inherited determinants of Crohn's disease and ulcerative colitis phenotypes: a genetic association study. <i>Lancet</i> (London, England). 2016;387(10014):156-67.
Journal article	Ghaly S, Murray K, Baird A, Martin K, Prosser R, Mill J, Simms LA, Hart PH, Radford-Smith G , Bampton PA, Lawrance IC. High Vitamin D-Binding Protein Concentration, Low Albumin, and Mode of Remission Predict Relapse in Crohn's Disease. <i>Inflammatory bowel diseases</i> . 2016;22(10):2456-64.
Journal article	Hamilton AL, Kamm MA, De Cruz P, Wright EK, Selvaraj F, Princen F, Macrae FA, Leong RW, Kronborg I, Radford-Smith G , Selby W, Bell SJ, Brown SJ, Connell WR. SEROLOGIC ANTIBODIES IN RELATION TO OUTCOME IN POST-OPERATIVE CROHN'S DISEASE. <i>Journal of gastroenterology and hepatology</i> . 2016.
Journal article	Heap GA, So K, Weedon M, Edney N, Bewshea C, Singh A, Parkes M, Phillips R, Pollok R, Radford-Smith G , Sebastian S, Sen S, Shirazi T, Silverberg M, Solomon L, Sturniolo GC, Thomas M, Tremelling M, Tsianos EV, Watts D, Weaver S, Weersma RK, Wesley E, Holden A, Ahmad T. Clinical Features and HLA Association of 5-Aminosalicylate (5-ASA)-induced Nephrotoxicity in Inflammatory Bowel Disease. <i>Journal of Crohn's & Colitis</i> . 2016;10(2):149-58.
Journal article	Hume GE , Doecke JD, Huang N, Fowler EV, Brown IS, Simms LA, Radford-Smith GL. Altered Expression of Angiotensinogen and Mediators of Angiogenesis in Ileal Crohn's Disease. <i>Journal of gastrointestinal and liver diseases: JGLD</i> . 2016;25(1):39-48.
Journal article	Julsgaard M, Christensen LA, Gibson PR, Geary RB, Fallingborg J, Hvas CL, Sparrow MP, Walsh A, Connor SJ, Radford-Smith G , Lawrance IC, Andrews JM, Ellard K, Bell SJ. Concentrations of Adalimumab and Infliximab in Mothers and Newborns, and Effects on Infection. <i>Gastroenterology</i> . 2016;151(1):110-9.
Journal article	Li D, Achkar JP, Haritunians T, Jacobs JP, Hui KY, D'Amato M, Brand S, Radford-Smith G , et al. A Pleiotropic Missense Variant in SLC39A8 Is Associated With Crohn's Disease and Human Gut Microbiome Composition. <i>Gastroenterology</i> . 2016;151(4):724-32.
Online Book	Handbook of Clinical Pancreatology. First Edition Nov 2016, ERGO, available on Apple App Store Editor: A/Prof Benedict Devereaux
Online Book chapter	Devereaux BM . Pancreatic cancer: Diagnosis and staging, in Handbook of Clinical Pancreatology. Editor Benedict Devereaux. Ergo 2016

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Lecture	Grimpen F . Preparation and Prokinetics in Capsule Endoscopy, and Standardised reporting in Capsule Endoscopy, at the Capsule NETI course, Gold Coast University Hospital, October 2016
Invited Lecture	Walsh P . Endoscopic overstitch for weight regain after bariatric surgery and closing fistulae. SUGSS / ANGOSA meeting on bariatric surgery in Sydney, September 2016
Invited Lecture	Walsh P . Endoscopic and medical options – their current state" and "Overstitch and luminal plication" at OSSANZ Bariatric Surgery Masterclass in Sydney, October 2016
Invited Lecture	Appleyard M . Capsule Endoscopy and Endoscopy in the Coagulopathic Patient. NZ Gastroenterology Week, Hamilton, New Zealand. November 2016
Invited Lecture	Appleyard M . Colonoscopy Performance Indicators: what should we be measuring? Australian Gastroenterology Week, Adelaide, October 2016
Invited Lecture	Appleyard M . NSAID enteropathy. Australian Gastroenterology Week, Adelaide, October 2016
Invited Lecture	Appleyard M . First National Capsule Endoscopy Satellite Symposium in association with NZ Society of Gastroenterology Annual Scientific Meeting, New Zealand Gastroenterology Week, Wellington, November 2016
Invited Lecture	Appleyard M. AGEA Video Forum (Endoscopy Stream presentations) Chair Australian Gastroenterology Week, Adelaide, October 2016
Invited Lecture	Appleyard M. Capsule Endoscopy for Small Bowel Crohn's Disease: First Advisory Board Meeting Sydney, November 2016
Invited Lecture	Devereaux B . EUS-guided pancreatico-biliary drainage. EUS-TAP Symposium. Bangkok, Thailand, 2016
Invited Lecture	Devereaux B . EUS in GI investigation: An update. Gastroenterology Nurses College of Australia (GENCA) Annual Meeting. Adelaide 2016
Invited Lecture	Devereaux B . Stenting for pancreatic duct disruption. Australian Gastroenterology Week. Adelaide, 2016
Invited Lecture	Devereaux B . EUS+/-FNA for pancreatic cystic lesions. Taiwan Digestive Diseases Week 2016. Taipei, Taiwan

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Lecture	Devereaux B. Intra-ductal imaging: cholangioscopy and pancreatoscopy. Sunshine Coast Gut Club 2016. Sunshine Coast, 2016
Invited Lecture	Devereaux B. Intra-ductal imaging: cholangioscopy and pancreatoscopy. Gold Coast Gut Club 2016. Gold Coast, 2016
Invited Lecture	Devereaux B. SpyGlass DS. Boston Scientific SpyGlass Evening Symposium. Digestive Diseases Week, San Diego, USA 2016
Invited Lecture	Leggett B. Serrated lesions: what every gastroenterologist should know. Digestive Diseases Week, USA 2016
Invited Lecture	Leggett B. The Serrated Pathway of Colorectal Tumorigenesis, American Association of Cancer Research Single Topic Conference: Colorectal Cancer: From Initiation to Outcomes. USA, 2016
Invited Lecture	Leggett B. Serrated lesions – what they mean for practice. Australian Gastroenterology Week Adelaide, 2016
Invited Lecture	Whitehall V, Colorectal Cancer Genomics. Brisbane Cancer Conference 2016
Invited Lecture	Whitehall V, Serrated Colorectal Neoplasia—from Models to Medicine, Olivia Newton John Cancer Centre Melbourne 2016
Invited Lecture	Whitehall V, The Bench Today—the Bedside Tomorrow?, HOTT Oncology Symposium, Sydney 2016
Invited Lecture	Bond C, Molecular Genetics of Colorectal Cancer, Brisbane Cancer Conference 2016
Invited Lecture	Radford-Smith G. Australian Gastroenterology Week. Adelaide, 2016.
Invited Lecture	Radford-Smith G. Australian Society of Medical Research. 2016 Annual Scientific Conference.
Invited Lecture	Radford-Smith G. Dunedin Gut Club. Dunedin, New Zealand, 2016.
Invited Lecture	Radford-Smith G. New Zealand Inflammatory Bowel Diseases Symposium. 2016.
Oral	Dumas C, Coles T, de Visser H, Cao C, Grimpen F. Haptic Feedback Tuning in Colonoscopy Simulation. International Conference on Systems, Man, and Cybernetics. Budapest, Hungary. May 2016
Oral	Whitehall V, Borowsky J, Bond C, Bettington M, Pearson S, Kalimutho M, Liu J, Dumenil T, McKeone D, Jamieson S, Fernando W, Fennell L, Clouston A, Rosty C, Brown I, Walker N, Leggett B. Wnt Pathway Activation in Serrated Neoplasia of the Colorectum. American Association of Cancer Research Single Topic Conference: Colorectal Cancer: From Initiation to Outcomes, USA 2016
Oral	Kawamata F, Patch A, Bond C, Nones C, McKeone D, Pearson S, Liu C, Fennell L, Dumenil T, Jamieson S, Bettington M, Taketomi A, Leggett B, Waddell N, Whitehall V. Single Nucleotide Polymorphism Redefine Mutation and Expression Profiles of Matched Primary and Metastatic Colorectal Cancer to Investigate Clonal Tumour Changes RBWH Research Symposium, 2016
Oral	Fennell L, Balachandra S, McKeone D, Kawamata F, Bond C, Burge M, Leggett B, Whitehall V. Somatic RNF43 Mutation in Lynch Syndrome Colorectal Cancer, RBWH Research Symposium, 2016
Poster	Satchwell J; Saxena P; Skinner C; Hopkins G; and Walsh P. Endoscopic Suturing for Gastrojejunal Outlet Dilatation as a Treatment for Weight Regain After Roux-en-Y Gastric Bypass – An Australian Case Series. Australian Gastroenterology Week, Adelaide, October 2016
Poster	Kasem K, Nandakumar L, Appleyard M, Singh M. Granular cell tumour–Adenocarcinoma collision tumour of the oesophagus: A case report. Pathology. 2016 Feb 1;48:S132.
Poster	Rowland J, Gan C, Appleyard M, Vandeleur A, Hodgson R, Croese J, Rahman T, Leggett B. The risk of advanced colorectal neoplasia in Australasian populations with sessile serrated adenomas. Journal of Gastroenterology and Hepatology. 2016 Oct 1;31:162-3
Poster	West A, Ding Y, Lin L, Croese J, Hodgson R, Appleyard M, Howlett M, Franz R, Hughes A, Ishwariah H, Shaw I. Service and quality improvement–colorectal cancer, socio-economic disadvantage and improving patient outcomes. Journal of Gastroenterology and Hepatology. 2016 Oct 1;31:62.
Poster	Patrick D, Ballard E, O'Rourke P, Hanigan K, Simms L, Irwin J, Cheng R, Clark DA, Appleyard M, Howlett M, Radford-Smith GL. Colectomy rates in regional transfer versus metropolitan patients with severe ulcerative colitis. Journal of Gastroenterology and Hepatology. 2016 Oct 1;31:144-.
Poster	Patrick D, Ballard E, O'Rourke P, Hanigan K, Simms L, Irwin J, Howlett M, Appleyard M, Radford-Smith GL, Cheng RK. Sa1924 Colectomy Free Survival in Patients With Acute Severe Ulcerative Colitis (ASUC): Analysis of Outcomes Based on Presentation to a Regional Hospital Versus a Metropolitan Hospital. Gastroenterology. 2016 Apr 1;150(4):S405.
Poster	An YK, Wong J, You IS, Mortimore M, Hewett DG, Appleyard MN, Begun J. The incidence of 30-day adverse events after colonoscopy in an IBD population. InJournal of Gastroenterology and Hepatology 2016 (Vol. 31, pp. 154-155).
Poster	Patrick D, Ballard E, O'Rourke P, Hanigan K, Simms L, Cheng RK, Irwin J, Howlett M, Appleyard M, Radford-Smith GL. Sa1923 Oral Corticosteroid Use at Time of Admission Is Associated With an Increased Late Colectomy Rate in Patients With Acute Severe Ulcerative Colitis (ASUC). Gastroenterology. 2016 Apr 1;150(4):S404-5.
Poster	Ding Y, Lin L, West A, Moattar H, Alghamry A, Croese J, Appleyard M, Hodgson R, Vandeleur A, Thomas J, Gupta R. Service and quality improvement–are we 'hit and miss' with gastric and oesophageal cancer detection?. Journal of Gastroenterology and Hepatology. 2016 Oct 1;31:54-

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Whitehall V, Fernando W, McKeone D, Bettington M, Pearson S, Bond C, Leggett B . Modelling Conventional and Serrated Colorectal Tumourigenesis by Altering Wnt and MAPK signalling pathways American Association of Cancer Research Annual Meeting, USA 2016
Poster	Liu C, Bond C, Kawamata F, McKeone D, Jamieson S, Fernando W, Leggett B , Whitehall V. Murine Model of Serrated Neoplasia Pathway RBWH Research Symposium 2016
Poster	Borowsky J, Bond C, Bettington M, Pearson S, Liu C, Dumenil T, McKeone D, Jamieson S, Fernando W, Fennell L, Clouston A, Rosty C, Brown I, Walker N, Leggett B , Whitehall V. APC Mutation as a Mechanism of WNT Pathway Activation in Serrated Colorectal Polyps and Cancers, RBWH Research Symposium 2016
Poster	Gazzola A, Lim R, Strasser S, Nicoll A, Mitchell J, Siow W, Khoo T, Hamarneh Z, Weltman M, Janko N, Tse E, Mishra G, Cheng EH, Levy M, Cheng W, Sood S, Skoien R , Zekry A, George J, Macquillan G, Wigg A, Stuart K, Sievert W, McCaughan G, Roberts SK, on behalf of the ALA CRN: Mycophenolate in autoimmune hepatitis not responsive or intolerant to standard therapy: the TAPESTRY study. Australian Gastroenterology Week, October 2016 and The Liver Meeting (AASLD), November 2016.
Poster	Braund A, Legg A, Cullen O, Beckman K, Mina J, Fenech M, Leggett B, Skoien R : New direct-acting antiviral (DAA) regimens improve clinical capacity and efficiency in the treatment of chronic hepatitis C. RBWH Healthcare Symposium, November 2016.
Poster	Gane EJ, Sola R, Cohen E, Roberts SK, George J, Skoien R , Riordan S, Mobashery N, Abunimeh M, Cohen DE, Agarwal K: RUBY-II: Efficacy and Safety of a Ribavirin-free Ombitasvir/Paritaprevir/Ritonavir ± Dasabuvir Regimen in Patients with Severe Renal Impairment or End-Stage Renal Disease and HCV Genotypes 1a or 4 Infection. The Liver Meeting (AASLD), November 2016.
Poster	Samarasena J, Lee RH, Reataza M, Huang JY , et al. Confocal Laser-Induced Endomicroscopy After Radiofrequency Ablation of Intestinal Metaplasia at the Gastro-Esophageal Junction (CLEAR IMAGE Study). <i>Gastrointest Endosc</i> 2016;83:AB563
Poster	Samarasena JB, Huang JY , Tsujino T, et al. Endoscopic Ultrasound Guided Portal Pressure Gradient Measurement With a Simple Novel Device – First Human Pilot Study. <i>Gastrointest Endosc</i> 2016;83:AB169-170
Poster	Samarasena JB, Huang JY , Tsujino T, et al. Endoscopic Ultrasound Guided Portal Pressure Gradient Measurement with a Simple Novel Device. <i>Gastrointest Endosc</i> 2016;83:AB186
Poster	Tsujino T, Huang JY , Samarasena J, et al. Safety and Feasibility of Combination EUS-Guided Portal Pressure Gradient Measurement and Liver Biopsy: The Realization of Endo-Hepatology. <i>Gastrointest Endosc</i> 2016;83:AB415-416
Poster	Tsujino T, Huang JY , Samarasena J, et al. EUS-Guided Needle-Based Confocal Laser Endomicroscopy in the Diagnosis of Cystic Pancreatic Neuroendocrine Tumor: Surgical Pathologic Correlation in Six Cases. <i>Gastrointest Endosc</i> 2016;83:AB353.
Poster	Tsujino T, Samarasena J, Huang JY , et al. EUS-Guided Through-the-Needle Dual Imaging With Confocal Laser-Induced Endomicroscopy (nCLE) and Cystoscopy in Pancreatic Cysts: Correlation With Gold-Standard Surgical Pathology. <i>Gastrointest Endosc</i> 2016;83:AB336.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Gastroenterology and Hepatology	17	2	31	21

Genetic Health Queensland



Assoc Prof Julie McGaughan
Director
Genetic Health Queensland

Genetic Health Queensland is a state-wide service which provides clinical genetics services for all age groups in the state of Queensland. GHQ contributes to education and grand rounds both at RBWH and LCCH. All clinical staff undertakes a number of presentations locally to other health professional groups and to non-government organisations. There is a research assistant employed by the ICCon familial cancer project.

Given the rarity of many genetic conditions and the availability of some genetic testing only out of state or in a research setting, there is considerable collaboration between staff of the department and national and international colleagues. This is particularly seen in the area of rare diseases in children.

In 2016, GHQ became part of the Australian Genomic Health Alliance after Australian Genomics was awarded a \$25 million grant from the National Health and Medical Research Council's (NHMRC) Targeted Call for Research into Preparing Australia for the Genomics Revolution in Healthcare. Over the course of this five-year grant, the aim is to make Australia a global leader in genomic medicine by providing the best evidence and policy advice to the Government, state agencies, hospitals and health providers. AGHA brings together more than 50 partner organisations committed to integrating genomic medicine into healthcare across Australia.

National collaboration looking at sudden unexpected death in young people led to co-authorship of a paper in the NEJM. Cardiac genetics is an active area of research and publications.

Renal genetics, is also a growing and developing field with contributions to the AGHA as a flagship (led from Queensland) and research and publications.

The Inherited Cancer Connect (ICCon) partnership is a national collaboration established in 2013 to formally link Australian Familial Cancer Centres, familial cancer researchers and the Cancer Council NSW, enabling a coordinated approach to improve the outcomes of people with inherited cancer syndromes. ICCon is currently supported (2013-2017) by Cancer Council NSW through the CCNSW STREP funding program.

It has four research priorities (RP): RP1 Develop a national infrastructure to connect the inherited cancer community; RP2 Develop a national approach to identify people at risk of heritable cancers; RP3 Improve the accuracy of cancer risk predictions in inherited cancer syndromes; and RP4 Improve cancer risk management of people with hereditary cancer syndromes.

Given the current huge growth and development in genomics in all areas of clinical medicine, the involvement of GHQ in a range of research activities will inevitably increase significantly in the near future.

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Julie McGaughran			Associate Professor UQ
Julie McGaughran			Adjunct Associate Professor, Griffith
Rachel Austin	Research assistant (HP)	ICCon Co-ordinator	

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Julie McGaughran	Australian Genomic Health Alliance	Australian Genomic Health Alliance
Julie McGaughran	Program 1 lead Queensland	
Julie McGaughran	ICCon NSW cancer council	

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Andrew Mallett (Renal, RBWH)	Australian Genomic Health Alliance	NGS and iPSC Applications in Genetic and Inheritable Kidney Disease
Andrew Mallett (Renal, RBWH)	Chirag Patel (SMO), Julie McGaughran	Applying Functional Genomics to Kidney Disease
Andrew Mallett (Renal, RBWH)	Chirag Patel (SMO), Julie McGaughran	Functional Genomics in Inherited Kidney Disease

Research Awards and Achievements

Recipient	Award	Event
Pauline McGrath	Allied Health Poster Presentation Award Winner	RBWH Symposium

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Julie McGaughran (CI)	GHQ	AGHA	NHMRC (Nationally \$5 million annually for 5 years)		5

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Andrew Mallett, Lindsay Fowles, Julie McGaughran , Helen Healy, Chirag Patel . A Multidisciplinary Renal Genetics Clinic improves patient diagnosis: An effective clinical model for mainstreaming genetic medicine in Australia. MJA Volume 204, Issue 02 Feb 2016
Journal	Paulina Bartuzi, Daniel D. Billadeau, Robert Favier, Shunxing Rong, Daphne Dekker, Hille Fieten, Alina Fedoseienko, Melinde Wijers, Johannes H. Levels, Nicolette Huijckman, Niels Kloosterhuis, Henk van der Molen, Gemma Burfau, Albert K. Groen, Jan-Albert Kuivenhoven, Julie McGaughran , Jay Horton, Ezra Burstein, Marten H. Hofker, Bart van de Sluis. CCC- and WASH-mediated endosomal sorting of the low-density lipoprotein receptor (LDLR) is required for normal clearance of circulating low-density lipoproteins (LDL). Nature Communications 2016 Mar 11; Vol. 7, pp. 10961
Journal	Bagnall RD, Weintraub RG, Ingles J, Duflou J, Yeates Y, Lam L, Davis A, Thompson T, Connell V, Wallace J, Naylor C, Crawford J, Love DR, Hallam L, White J, Lawrence C, Lynch M, Morgan N, James P, du Sart D, Puranik R, Langlois N, Vohra J, Winship I, Atherton J, McGaughran J , Skinner JR, Semsarian C. A Prospective, Population-Based Study of Sudden Cardiac Death in the Young. New England Journal of Medicine 2016. Jun 23; Vol. 374 (25), pp. 2441-52
Journal	Burns C; Ingles J; Davis AM; Connell V; Gray B; Hunt L; McGaughran J ; Semsarian C. Clinical and genetic features of Australian families with long QT syndrome: A registry-based study. J Arrhythm 2016 Dec; Vol. 32 (6), pp. 456-461;
Journal	Joanna Crawford, Neil Bower, Benjamin Hogan, Ryan J Taft, Michael Gabbett, Julie McGaughran and Cas Simons. Expanding the Genotypic Spectrum of CCBE1 Mutations in Hennekam Syndrome. Am J Med Genet Vol. 170 (10), pp. 2694-7
Journal	Wallis MJ, Kelly AL, Peters GB, St Heaps L, Nandini A, McGaughran JM . A balanced paternal interchromosomal reciprocal insertion between 5q12.1q13.2 and 20p12.3p12.1 resulting in separate genetic conditions in two siblings. Am J Med Genet A . 2016 Jul;170 (7):1930-3.
Journal	Burns C, McGaughran J , Davis A, Semsarian C, Ingles J. Factors influencing uptake of familial long QT syndrome genetic testing. Am J Med Genet A . 2016 Feb;170 A(2):418-25.
Journal	Chan S, Mallett AJ, Patel C , Francis RS, Johnson DW, Mudge DW, Isbel NM. Recurrent atypical haemolytic uraemic syndrome post kidney transplant due to a CD46 mutation in the setting of SMARCAL1-mediated inherited kidney disease. Nephrology (Carlton) . 2017. Suppl 1:11-14.
Journal	Deciphering Developmental Disorders Study (including Patel C). Prevalence and architecture of de novo mutations in developmental disorders. Nature . 2017. 542(7642):433-438.
Journal	La Piana R, Cayami FK, Tran LT, Guerrero K, van Spaendonk R, Öunap K, Pajusalu S, Haack T, Wassmer E, Timmann D, Mierzewska H, Poll-Thé BT, Patel C , Cox H, Atik T, Onay H, Ozkinay F, Vanderver A, van der Knaap MS, Wolf NI, Bernard G. Diffuse hypomyelination is not obligate for POLR3-related disorders. Neurology . 2016. 86:1622-1626.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Oral	McGaughran J Successes and Challenges in the cardiac genetics clinic International Congress of Human genetics, Kyoto, Japan April
Oral	McGaughran J Update on Clinical Genetics RACP Congress Adelaide May Invited
Oral	McGaughran J HGSA EVOLVE RACP Congress Adelaide May Invited
Oral	McGaughran J Successes and Challenges in the cardiac genetics clinic Human Genetics Society of Australasia ASM Hobart August
Oral	MarFan H The QLD experience of BRCA mainstreaming COSA satellite symposium 2016
Poster	McGaughran J , J Crawford, Simons C A child with compound heterozygous Desmoplakin mutations: A new phenotype? Manchester Dysmorphology Meeting, UK, November 2016
Poster	Berkman J, Wakeling J, McGaughran J . A collaborative family approach for identifying BRCA1/2 mutations in individuals without a living cancer affected family member. RBWH Healthcare Symposium 2016; Human Genetics Society of Australasia, Hobart 2016
Poster	Berkman J, Atherton J, McGaughran J Family and psychological factors effecting adaptation to a diagnosis of an inherited cardiac condition. RBWH Healthcare Symposium 2016; International Clinical Cardiovascular Genetics Conference, Brisbane 2016

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Poster	Lindsay Fowles, Lauren Hunt, Rachel D Susman. Reaching a diagnosis of Lynch syndrome: A case highlighting the importance of effective liaison between the genetics and pathology services. Human Genetics Society of Australasia: 40 th Annual Scientific Meeting, Hobart, August 2016
Poster	Higgins M, Susman R, Wakeling JL, Mar Fan H. Is consecutive mismatch repair (MMR) gene germline mutation testing associated with an increased detection of MMR gene mutations in the diagnosis of Lynch Syndrome in patients with colorectal cancer? 40 th Annual Scientific Meeting, Hobart, August 2016 and RBWH Symposium September 2016
Poster	Znaczko A, Sivasuthan G, Wakeling JL, Susman R, Mar Fan H. Genetic testing of mismatch repair genes (MMR) in patients with endometrial cancer 40 th Annual Scientific Meeting, Hobart, August 2016 and RBWH Symposium September 2016

10) Other communications and outputs

Julie McGaughran; Member of panel discussion regarding genomics at RBWH symposium.

11) Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	10	0	12	12



Genetics of Epilepsy

Research in the Reutens laboratory focuses on neurological disorders, particularly epilepsy, and the development of novel imaging methods to better understand, diagnose and manage them. 2016 was an outstanding year for the Reutens group with a number of high profile papers published, several new grants, including a new ARC Discovery Project grant, novel IP submitted in patent applications and several new RHD students and post-doctoral fellows joining the group.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.) University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Javier Urriola Yaksic	PhD, UQ (2015-2018)	Imaging biomarkers in epilepsy	David Reutens , Lars Marstaller, Hana Burianova
Shaez Abdulla	PhD, UQ (2016-2019)	Resonance Imaging Data	David Reutens , Viktor Vegh
Pietro Caradonna	PhD, UQ (2015-2018)	Quantitative methods for PET-MRI	David Reutens , Viktor Vegh
Shrinath Kadamangudi	MPhil, UQ (2016-2018)	Characterising MRI signal compartments using frequency shift signature	David Reutens , Viktor Vegh
A.S. M. Zahid Kausar	PhD, UQ (2015-2018)	Radio frequency coil development for hybrid PET-MRI	David Reutens , Viktor Vegh
Shahrazad Moeiniyan Bagheri	PhD, UQ (2015-2018)	A novel magnetic resonance technique to characterise white matter microstructure in the brain	David Reutens , Viktor Vegh
Ruben Pellicer Guridi	PhD, UQ (2014-2017)	Research and development of ultra-low field magnetic resonance imaging/nuclear magnetic resonance (MRI/NMR) instrumentation methods.	David Reutens , Michael Vogel
Zheng Qiao	PhD, UQ (2015-2018)	Development of novel PET tracers for the early detection of brain tumours	David Reutens , Rajiv Bhalla
Surabhi Sood	PhD, UQ (2015-2018)	Mapping of magnetic susceptibility of the human brain from MRI acquired data	David Reutens , Viktor Vegh, Markus Barth
Jiaxin Du	Postdoctoral Fellow	Research and development of methods for neuronal current magnetic resonance imaging (ncMRI)	David Reutens
Reza Bonyadi	Postdoctoral Fellow	Science of Learning Imaging projects	David Reutens
Maryam Ziaei	Postdoctoral Fellow	Science of Learning Imaging analysis	David Reutens
Min Chen	Postdoctoral Fellow	Rodent models of epilepsy using molecular biological techniques using in vivo MRI & EEG	David Reutens
Qiang Yu	Postdoctoral Fellow	Modelling and analysis of anomalous diffusion in magnetic resonance imaging	David Reutens

Research Grants - Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
DC Reutens and 26 other CIs	Neurology	The Science of Learning Research Centre	ARC	\$4,000,000	\$16,000,000 (2103-2016)
D Reutens , S Meikle, T Venkatachalam, I Turner, J Benlloch, A Boyd, V Vegh, A Gonzalez, R Bhalla, Z Yang	Neurology	Advancing hybrid imaging with magnetic resonance imaging and positron emission tomography (MRI-PET)	ARC	\$100,000	\$300,000 (2013-2016)
DC Reutens , O Speck, V Vegh.	Neurology	A novel magnetic resonance imaging (MRI) technique to characterise white matter microstructure in the brain	ARC	\$115,000	\$365,000 (2014-2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
D Reutens	Neurology	Towards detection of neuronal currents with magnetic resonance imaging	ARC	\$150,000	\$452,600 (2015-2017)
V Vegh, DC Reutens , M Gray, C Riney, S Malone.	Neurology	Novel MRI approaches to map focal cortical dysplasia in focal epilepsy	NHMRC	\$155,000	\$465,489 (2016-2018)
DC Reutens (with Centenary Institute Sydney)	Neurology	ACRF Tumor Metabolism Laboratory	ACRF	\$2,500,000	\$2,500,000 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Tieng Q, Kharatishvili I, Chen M, Reutens D . Mouse EEG spike detection based on the adapted continuous wavelet transform. <i>J Neural Eng</i> 2016; 13(2)026018. [Epub ahead of print]
Journal Article	Sepehrband F, Alexander DC, Kurniawan ND, Reutens DC , Yang Z. Towards Higher Sensitivity And Stability Of Axon Diameter Estimation With Diffusion-Weighted Magnetic Resonance Imaging. <i>NMR Biomed</i> 2016 doi: 10.1002/nbm.3462. [Epub ahead of print].
Journal Article	Schönberger M, Reutens D , Beare R, O'Sullivan R, Rajaratnam S, Ponsford J. Brain lesion correlates of fatigue in individuals with traumatic brain injury. <i>Neuropsychol Rehabil.</i> 2016 Mar 9:1-15.
Journal Article	Venkatachalam TK, Bernhardt PV, Noble CJ, Fletcher N, Pierens GK, Thurecht KJ, Reutens DC . Synthesis, characterisation and biological activities of semicarbazones and their copper complexes. <i>J Inorg Biochem</i> 2016; 162:295-308.
Journal Article	Venkatachalam TK, Pierens GK, Bernhardt PV, Stimson DHR, Bhalla R, Lambert L, Reutens DC . Heteronuclear NMR Spectroscopic investigations of gallium complexes of substituted thiosemicarbazones including X-ray crystal structure, a new halogen exchange strategy and 18F radiolabeling. <i>Aust J Chem</i> 2016; 69: 1033-1048.
Journal Article	Marstaller L, Burianova H, Reutens D . Dynamic competition between large-scale functional networks differentiates fear conditioning and extinction in humans. <i>Neuroimage</i> 2016;134:314-319.
Journal Article	Vogel MW, Giorno A, Vegh V, Guridi RP, Reutens DC . Rotatable small permanent magnet array for ultra-low field nuclear magnetic resonance instrumentation: A concept study. <i>PLoS One</i> Jun 6;11(6):e0157040. doi: 10.1371/journal.pone.0157040.
Journal Article	Sood S, Urriola J, Reutens D , O'Brien K, Bollmann S, Barth M, Vegh V. Echo time dependent quantitative susceptibility mapping contains information on tissue properties. <i>Magn Reson Med.</i> 2016 May 25. doi: 10.1002/mrm.26281. [Epub ahead of print]
Journal Article	Sepehrband F, Alexander DC, Clark KA, Kurniawan ND, Yang Z, Reutens DC . Parametric probability distribution functions for axon diameters of corpus callosum. <i>Front Neuroanat</i> 2016 May 26;10:59. doi: 10.3389/fnana.2016.00059. eCollection 2016.
Journal Article	Pierens G, Venkatachalam TK, Reutens DC . Investigation of 2- and 3-bond carbon-hydrogen Coupling Constants in Cinnamic Acid based Compounds. <i>Magn Reson Chem</i> 2016 Jun 29. doi: 10.1002/mrc.4469
Journal Article	Williams R, Reutens D , Hocking J. Influence of BOLD contributions to diffusion fMRI activation of the visual cortex. <i>Front Neurosci</i> 2016 Jun 28;10:279. doi: 10.3389/fnins.2016.00279.
Journal Article	Stimson DH, Pringle AJ, Maillet D, King AR, Nevin ST, Venkatachalam TK, Reutens DC , Bhalla R. Management of radioactive waste gases from PET radiopharmaceutical synthesis using cost effective capture systems integrated with a cyclotron safety system. <i>J Radiol Prot.</i> 2016 Jul 7;36(3):504-517.
Journal Article	Marstaller L, Burianova H, Reutens DC . Individual differences in structural and functional connectivity predict speed of emotion discrimination. <i>Cortex</i> 2016;85:65-74.
Journal Article	Yu Q, Reutens D , O'Brien K, Vegh V. Tissue microstructure features derived from anomalous diffusion measurements in magnetic resonance imaging. <i>Hum Brain Mapp</i> 2017; 38(2):1068-1081.
Journal Article	Marstaller L, Burianova H, Reutens DC . Adaptive contextualization: A new role for the default mode network in affective learning. <i>Hum Brain Mapp</i> 2017; 38(2):1082-1091.
Journal Article	Chen M, Arumugam TV, Leanage G, Tieng QM, Yadav A, Ullmann JFP, She DT, Truong V, Ruitenber MJ, Reutens DC . Disease-modifying effect of intravenous immunoglobulin in an experimental model of epilepsy. <i>Sci Rep</i> 2017; 7:40528. doi: 10.1038/srep40528.
Journal Article	Bollman S, Robinson SD, O'Brien K, Vegh V, Janke A, Marstaller L, Reutens DC , Barth M. The challenge of bias free coil combination for quantitative susceptibility mapping at ultra-high field. <i>Magn Reson Med (In Press)</i>
Journal Article	Wu T, Grandjean J, Bosshard SC, Rudin M, Reutens D , Jiang T. Altered regional connectivity reflecting effects of different anaesthesia protocols in the mouse brain. <i>NeuroImage (In Press)</i>

Infectious Diseases

The Infectious Diseases Unit incorporates inpatients, the facility wide consultation service, the Hospital in the Home and Outpatient Parenteral Therapy services, the Infection Monitoring and Prevention Service (IMPS), the Workplace Screening and Vaccination Service, Sexual Health and HIV Service, Antimicrobial Stewardship Service, and the Vascular Access Support Service. All components of the service are involved in research in one form or another with linkages to University of Queensland Clinical Research Centre, QIMR, Queensland University of Technology to name a few.

The aim of the McCarthy Group is to develop new drugs, vaccines and diagnostics for malaria, especially through the conduct of human malaria challenge studies in healthy volunteers. As well, materials from these studies are being used to improve understanding of the immune response to malaria. There is a pressing need to develop new antimalarial drugs to combat drug-resistant malaria and to achieve the ambitious goal of malaria elimination. Funding highlights include an A\$19M NHMRC Program Grant. Relevant collaborations within MNHS include with Chemical Pathology Queensland Health for measuring drug levels in clinical trials, the Herston Imaging Research Facility (HIRF) to undertake in vivo imaging in malaria, and with Queensland Children's Medical Research Institute (QCMRI) to undertake molecular analysis to quantify parasite DNA in the blood of study subjects.

David Paterson's research group studies antibiotic resistance, approaching this from the viewpoints of clinical trials and molecular epidemiology of Gram negative bacteria. The major achievement this year has been conduct of the largest randomised controlled trial yet performed in the world on antibiotic resistant Gram negative bacteria (the "MERINO trial"). This RCT has been centred at RBWH.

The other clinicians and team members undertake research focused on the patient population we serve including studies of epidemiology (Dr Woods and IMPS), and case studies of particular clinical problems (Drs Allworth, Hajkovicz, Redmond).

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Sumi Britton	PhD UQ (2011-16)	Rapid Diagnostic Tests for malaria	James McCarthy , Qin Cheng, Colin Sutherland
Paul Griffin	PhD UQ (2013-)	Human challenge studies in malaria	James McCarthy , David Looke
Paul Chapman	MPhil UQ (2015-)	An attenuated hookworm vaccine	James McCarthy , Alex Loukas
John Woodford	MPhil UQ (2016-)	Microcirculatory disturbance in malaria	James McCarthy , Nick Anstey
Hosam Zowawi	PhD (UQ) – awarded 2016	Epidemiology of multiresistant Gram negative bacteria in the Arabian Gulf	David Paterson
Vikram Vaska	PhD (UQ) – awarded 2016	MRSA in children in Queensland	David Paterson
Kate McCarthy	PhD (UQ) (2013-2017)	Pseudomonas aeruginosa bloodstream infections	David Paterson

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
James McCarthy	NHMRC Practitioner Fellow	QIMR Berghofer	QIMR Berghofer (2002-current)
David Paterson	Professor; Practitioner Fellow	Antibiotic Resistant Gram negative bacteria	UQ (2007-current)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
James McCarthy	Medicines for Malaria/multiple Pharma/Bill and Melinda Gates Foundation	Human Challenge Studies in malaria
James McCarthy	Stephen Trowell (CSIRO)	Breath Volatiles in malaria
James McCarthy	Paul Thomas (Nuclear Medicine)	In vivo imaging in malaria
James McCarthy	Robert Sauerwein (Netherlands)	Transmission studies in malaria
James McCarthy	Michael Good, Don McManus, Istvan Toth, Nicholas Anstey, Denise Doolan, Christian Engwerda, Alexander Loukas, Richard Price	Tropical diseases: Translating discoveries into better health
James McCarthy	Gonzalo Domingo (PATH)	Biomarkers for Malaria Elimination
David Paterson	Patrick Harris (Path QLD) Kate McCarthy (RBWH and Path QLD)	Antibiotic resistant Gram negative bacilli

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
James McCarthy	Infectious Diseases		Australian Institute of Infectious Diseases Research Center	\$50,000	2016
James McCarthy	Infectious Diseases	Controlled Human Malaria Infection Transmission (CHMI Transmission)	PATH-MVI	\$265,453	2016
James McCarthy	Infectious Diseases	Biomarkers for Malaria Elimination" "BIOME" Plasmodium Vivax ("Pv")	PATH	58,584.89	2016
James McCarthy	Infectious Diseases	Plasmodium Falciparum ("Pf") Histidine-Rich Protein 2 ("HRP2") production and decay model to define HRP2 dynamics and Pf detection over time	PATH	115,921.50	2016
James McCarthy	Infectious Diseases	A proof-of-concept study to assess the effect of (+)-SJ000557733 (SJ733) against early Plasmodium falciparum blood stage infection in healthy participants	Medicines for Malaria Venture	\$232,185	2016
James McCarthy	Infectious Diseases	P.falciparum hrp2 sequencing project	Foundation for Innovative New Diagnostics (FIND)	\$95,527	2016
James McCarthy	Infectious Diseases	A single centre, two-part, Phase I study to investigate the safety, tolerability and pharmacokinetic profile of ascending oral doses of MMV390048 and its antimalarial activity against Plasmodium falciparum in healthy adult subjects	Medicines for Malaria Venture	\$112,240	2016
James McCarthy	Infectious Diseases	A Phase Ib experimental study to assess the in vivo safety and response to chloroquine of Plasmodium vivax isolate HMPBS02-Pv in healthy participants with induced blood stage malaria infection	Medicines for Malaria Venture	\$1,033,195	2016
James McCarthy	Infectious Diseases	Grand Challenges – New Interventions for Global Health: Novel Sensor and Biomarkers for Diagnosis of Malaria Using Human Breath	Bill and Melinda Gates Foundation	\$663,631	2016-17

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
James McCarthy	Infectious Diseases	Improving Health Outcomes in the Tropical North: A Multidisciplinary Collaboration	NHMRC Northern Australia Tropical Disease Collaborative Research Programme 1131932	\$1,199,583	2016-2020
James McCarthy	Infectious Diseases	Hookworm therapy for Coeliac Disease: A randomised, double blind, placebo-controlled clinical trial	NHMRC Project 1105300	\$144,166	2016-2021
David Paterson	Infectious Diseases	Practitioner Fellowship	NHMRC		

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	McNamara JF, Paterson DL, Allworth A , Presneill J, O'Connell P, Henderson RD. Re-activation of varicella zoster virus associated with anterior spinal cord stroke in pregnancy. <i>Infect Dis (Lond)</i> . 2016 Sep;48(9):705-7. doi: 10.1080/23744235.2016.1185535. Epub 2016 May 20.
Journal Article	Chapman B, Slavin M, Marriott D, Halliday C, Kidd S, Arthur I, Bak N, Heath CH, Kennedy K, Morrissey CO, Sorrell TC, van Hal S, Keighley C, Goeman E, Underwood N, Hajkowicz K , Hofmeyr A, Leung M, Macesic N, Botes J, Blyth C, Cooley L, George CR, Kalukottege P, Kesson A, McMullan B, Baird R, Robson J, Korman TM, Pendle S, Weeks K, Liu E, Cheong E, Chen S; Australian and New Zealand Mycoses Interest Group. Changing epidemiology of candidaemia in Australia. <i>J Antimicrob Chemother</i> . 2017 Apr 1;72(4):1270. doi: 10.1093/jac/dkx047.
Journal Article	Rafei N, Hajkowicz K, Redmond A , Taylor C. First report of Zika virus infection in a returned traveller from the Solomon Islands. <i>Med J Aust</i> . 2016 Mar 21;204(5):186-186e1.
Journal Article	Montes de Oca M, Good MF, McCarthy JS , Engwerda CR. The Impact of Established Immunoregulatory Networks on Vaccine Efficacy and the Development of Immunity to Malaria. <i>Journal of immunology (Baltimore, Md. : 1950)</i> . 2016; 197(12):4518-4526. PubMed [journal] PMID: 27913644
Journal Article	Loukas A, Hotez PJ, Diemert D, Yazdanbakhsh M, McCarthy JS , Correa-Oliveira R, Croese J, Bethony JM. Hookworm infection. <i>Nature reviews. Disease primers</i> . 2016; 2:16088. PubMed [journal] PMID: 27929101
Journal Article	Griffin P, Pasay C, Elliott S, Sekuloski S, Sikulu M, Hugo L, Khoury D, Cromer D, Davenport M, Sattabongkot J, Iverson K, Ockenhouse C, McCarthy J . Safety and Reproducibility of a Clinical Trial System Using Induced Blood Stage Plasmodium vivax Infection and Its Potential as a Model to Evaluate Malaria Transmission. <i>PLoS neglected tropical diseases</i> . 2016; 10(12):e0005139. PubMed [journal] PMID:27930652, PMCID: PMC5145139
Journal Article	Burel JG, Apte SH, McCarthy JS , Doolan DL. Plasmodium vivax but Not Plasmodium falciparum Blood-Stage Infection in Humans Is Associated with the Expansion of a CD8+ T Cell Population with Cytotoxic Potential. <i>PLoS neglected tropical diseases</i> . 2016; 10(12):e0005031. PubMed [journal] PMID: 27930660, PMCID:PMC5145136
Journal Article	Batzloff MR, Fane A, Gorton D, Pandey M, Rivera-Hernandez T, Calcutt A, Yeung G, Hartas J, Johnson L, Rush CM, McCarthy J , Ketheesan N, Good MF. Preclinical immunogenicity and safety of a Group A streptococcal M protein-based vaccine candidate. <i>Human vaccines & immunotherapeutics</i> . 2016; 12(12):3089-3096. PubMed [journal] PMID: 27541593, PMCID: PMC5215552
Journal Article	Campbell SJ, Nery SV, D'Este CA, Gray DJ, McCarthy JS , Traub RJ, Andrews RM, Llewellyn S, Vallely AJ, Williams GM, Amaral S, Clements AC. Water, sanitation and hygiene related risk factors for soil-transmitted helminth and Giardia duodenalis infections in rural communities in Timor-Leste. <i>International journal for parasitology</i> . 2016; 46(12):771-779. PubMed [journal] PMID: 27616734
Journal Article	Engelman D, Fuller LC, Solomon AW, McCarthy JS , Hay RJ, Lammie PJ, Steer AC. Opportunities for Integrated Control of Neglected Tropical Diseases That Affect the Skin. <i>Trends in parasitology</i> . 2016; 32(11):843-854. PubMed [journal] PMID: 27638231
Journal Article	Montes de Oca M, Kumar R, Rivera FL, Amante FH, Sheel M, Faleiro RJ, Bunn PT, Best SE, Beattie L, Ng SS, Edwards CL, Boyle GM, Price RN, Anstey NM, Loughland JR, Burel J, Doolan DL, Haque A, McCarthy JS , Engwerda CR. Type I Interferons Regulate Immune Responses in Humans with Blood-Stage Plasmodium falciparum Infection. <i>Cell reports</i> . 2016; 17(2):399-412. NIHMSID: EMS70303 PubMed [journal] PMID: 27705789, PMCID: PMC5082731
Journal Article	McCarthy JS , Ruckle T, Djeriou E, Cantalloube C, Ter-Minassian D, Baker M, O'Rourke P, Griffin P, Marquart L, Hooft van Huijsduijn R, Möhrle JJ. A Phase II pilot trial to evaluate safety and efficacy of ferroquine against early Plasmodium falciparum in an induced blood-stage malaria infection study. <i>Malaria journal</i> . 2016; 15:469. PubMed [journal] PMID: 27624471, PMCID: PMC5022189

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Pasay CJ, Rockett R, Sekuloski S, Griffin P, Marquart L, Peatey C, Wang CY, O'Rourke P, Elliott S, Baker M, Möhrle JJ, McCarthy JS . Piperaquine Monotherapy of Drug-Susceptible Plasmodium falciparum Infection Results in Rapid Clearance of Parasitemia but Is Followed by the Appearance of Gametocytemia. The Journal of infectious diseases. 2016; 214(1):105-13. PubMed [journal] PMID: 27056954, PMCID: PMC4907420
Journal Article	Britton S, Cheng Q, Grigg MJ, William T, Anstey NM, McCarthy JS . A Sensitive, Colorimetric, High-Throughput Loop-Mediated Isothermal Amplification Assay for the Detection of Plasmodium knowlesi. The American journal of tropical medicine and hygiene. 2016; 95(1):120-2. PubMed [journal] PMID: 27162264, PMCID: PMC4944675
Journal Article	Krause A, Dingemans J, Mathis A, Marquart L, Möhrle JJ, McCarthy JS . Pharmacokinetic/pharmacodynamic modelling of the antimalarial effect of Actelion-451840 in an induced blood stage malaria study in healthy subjects. British journal of clinical pharmacology. 2016; 82(2):412-21. PMID: 27062080, PMCID: PMC4972157
Journal Article	Karunaratne DS, Horne-Debets JM, Huang JX, Faleiro R, Leow CY, Amante F, Watkins TS, Miles JJ, Dwyer PJ, Stacey KJ, Yarski M, Poh CM, Lee JS, Cooper MA, Rénia L, Richard D, McCarthy JS , Sharpe AH, Wykes MN. Programmed Death-1 Ligand 2-Mediated Regulation of the PD-L1 to PD-1 Axis Is Essential for Establishing CD4(+) T Cell Immunity. Immunity. 2016; 45(2):333-45. PubMed [journal] PMID: 27533014
Journal Article	Gyawali P, Ahmed W, Sidhu JP, Nery SV, Clements AC, Traub R, McCarthy JS , Llewellyn S, Jagals P, Toze S. Quantitative detection of viable helminth ova from raw wastewater, human feces, and environmental soil samples using novel PMA-qPCR methods. Environmental science and pollution research international. 2016; 23(18):18639-48. PubMed [journal] PMID: 27306209
Journal Article	Aghazadeh M, Harvie MC, Owen HC, Verissimo C, Aland KV, Reid SA, Traub RJ, McMANUS DP, McCarthy JS , Jones MK. Comparative pathogenesis of eosinophilic meningitis caused by Angiostrongylus mackerrasae and Angiostrongylus cantonensis in murine and guinea pig models of human infection. Parasitology. 2016; 143(10):1243-51. PubMed [journal] PMID: 27278827
Journal Article	McCarthy JS , Baker M, O'Rourke P, Marquart L, Griffin P, Hooft van Huijsduijnen R, Möhrle JJ. Efficacy of OZ439 (artefenomel) against early Plasmodium falciparum blood-stage malaria infection in healthy volunteers. The Journal of antimicrobial chemotherapy. 2016; 71(9):2620-7. PubMed [journal] PMID: 27272721, PMCID: PMC4992851
Journal Article	Khoury DS, Cromer D, Möhrle JJ, McCarthy JS , Davenport MP. Defining the Effectiveness of Antimalarial Chemotherapy: Investigation of the Lag in Parasite Clearance Following Drug Administration. The Journal of infectious diseases 2016; 214(5):753-61. PubMed [journal] PMID: 27252475, PMCID: PMC4978373
Journal Article	Stanisic DI, Gerrard J, Fink J, Griffin PM, Liu XQ, Sundac L, Sekuloski S, Rodriguez IB, Pingnet J, Yang Y, Zhou Y, Trenholme KR, Wang CY, Hackett H, Chan JA, Langer C, Hanssen E, Hoffman SL, Beeson JG, McCarthy JS , Good MF. Infectivity of Plasmodium falciparum in Malaria-Naive Individuals Is Related to Knob Expression and Cytoadherence of the Parasite. Infection and immunity. 2016; 84(9):2689-96. PubMed [journal] PMID: 27382019, PMCID: PMC4995910
Journal Article	Burel JG, Apte SH, Groves PL, Klein K, McCarthy JS , Doolan DL. Reduced Plasmodium Parasite Burden Associates with CD38+ CD4+ T Cells Displaying Cytolytic Potential and Impaired IFN-γ Production. PLoS pathogens. 2016; 12(9):e1005839. PubMed [journal] PMID: 27662621, PMCID: PMC503501120
Journal Article	Britton S, Cheng Q, Grigg MJ, Poole CB, Pasay C, William T, Fornace K, Anstey NM, Sutherland CJ, Drakeley C, McCarthy JS . Sensitive Detection of Plasmodium vivax Using a High-Throughput, Colourimetric Loop Mediated Isothermal Amplification (HtLAMP) Platform: A Potential Novel Tool for Malaria Elimination. PLoS neglected tropical diseases. 2016; 10(2):e0004443. PubMed [journal] PMID: 26870958, PMCID: PMC4752294
Journal Article	Grigg MJ, William T, Menon J, Dhanaraj P, Barber BE, Wilkes CS, von Seidlein L, Rajahram GS, Pasay C, McCarthy JS , Price RN, Anstey NM, Yeo TW. Artesunate-mefloquine versus chloroquine for treatment of uncomplicated Plasmodium knowlesi malaria in Malaysia (ACT KNOW): an open-label, randomised controlled trial. The Lancet. Infectious diseases. 2016; 16(2):180-8. NIHMSID: EMS67061 PubMed [journal] PMID: 26603174, PMCID: PMC4753673
Journal Article	Britton S, Cheng Q, McCarthy JS . Novel molecular diagnostic tools for malaria elimination: a review of options from the point of view of high-throughput and applicability in resource limited settings. Malaria journal. 2016; 15:88. PubMed [journal] PMID: 26879936, PMCID: PMC4754967
Journal Article	Pilote N, Papiakovou M, Grant JR, Bierwert LA, Llewellyn S, McCarthy JS , Williams SA. Improved PCR-Based Detection of Soil Transmitted Helminth Infections Using a Next-Generation Sequencing Approach to Assay Design. PLoS neglected tropical diseases. 2016; 10(3):e0004578. PubMed [journal] PMID: 27027771, PMCID: PMC4814118
Journal Article	Mounsey KE, Bernigaud C, Chosidow O, McCarthy JS . Prospects for Moxidectin as a New Oral Treatment for Human Scabies. PLoS neglected tropical diseases. 2016; 10(3):e0004389. PubMed [journal] PMID: 26985995, PMCID: PMC4795782
Journal Article	Chalmers BA, Xing H, Houston S, Clark C, Ghassabian S, Kuo A, Cao B, Reitsma A, Murray CE, Stok JE, Boyle GM, Pierce CJ, Littler SW, Winkler DA, Bernhardt PV, Pasay C, De Voss JJ, McCarthy J , Parsons PG, Walter GH, Smith MT, Cooper HM, Nilsson SK, Tsanaktsidis J, Savage GP, Williams CM. Validating Eaton's Hypothesis: Cubane as a Benzene Bioisostere. Angewandte Chemie (International ed. in English). 2016; 55(11):3580-5. PubMed [journal] PMID: 26846616
Journal Article	Loughland JR, Minigo G, Burel J, Tipping PE, Piera KA, Amante FH, Engwerda CR, Good MF, Doolan DL, Anstey NM, McCarthy JS , Woodberry T. Profoundly Reduced CD1c+ Myeloid Dendritic Cell HLA-DR and CD86 Expression and Increased Tumor Necrosis Factor Production in Experimental Human Blood-Stage Malaria Infection. Infection and immunity. 2016; 84(5):1403-12. PubMed [journal] PMID: 26902728, PMCID: PMC4862702

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Campbell SJ, Nery SV, Doi SA, Gray DJ, Soares Magalhães RJ, McCarthy JS , Traub RJ, Andrews RM, Clements AC. Complexities and Perplexities: A Critical Appraisal of the Evidence for Soil-Transmitted Helminth Infection-Related Morbidity. <i>PLoS neglected tropical diseases</i> . 2016; 10(5):e0004566. PubMed [journal] PMID: 27196100, PMCID: PMC4873196
Journal Article	McCarthy JS , Marquart L, Sekuloski S, Trenholme K, Elliott S, Griffin P, Rockett R, O'Rourke P, Sloots T, Angulo-Barturen I, Ferrer S, Jiménez-Díaz MB, Martínez MS, Hooft van Huijsdijnen R, Duparc S, Leroy D, Wells TN, Baker M, Möhrle JJ. Linking Murine and Human <i>Plasmodium falciparum</i> Challenge Models in a Translational Path for Antimalarial Drug Development. <i>Antimicrobial agents and chemotherapy</i> . 2016; 60(6):3669-75. PubMed [journal] PMID: 27044554, PMCID: PMC4879391
Journal Article	Payne RO, Milne KH, Elias SC, Edwards NJ, Douglas AD, Brown RE, Silk SE, Biswas S, Miura K, Roberts R, Rampling TW, Venkatraman N, Hodgson SH, Labbé GM, Halstead FD, Poulton ID, Nugent FL, de Graaf H, Sukhtankar P, Williams NC, Ockenhouse CF, Kathcart AK, Qabar AN, Waters NC, Soisson LA, Birkett AJ, Cooke GS, Faust SN, Woods C, Invsion K, McCarthy JS , Diggs CL, Vekemans J, Long CA, Hill AV, Lawrie AM, Dutta S, Draper SJ. Demonstration of the Blood-Stage <i>Plasmodium falciparum</i> Controlled Human Malaria Infection Model to Assess Efficacy of the <i>P. falciparum</i> Apical Membrane Antigen 1 Vaccine, FMP2.1/AS01. <i>The Journal of infectious diseases</i> . 2016; 213(11):1743-51. PubMed [journal] PMID: 26908756, PMCID: PMC4857475
Journal Article	Llewellyn S, Inpankaew T, Nery SV, Gray DJ, Verweij JJ, Clements AC, Gomes SJ, Traub R, McCarthy JS . Application of a Multiplex Quantitative PCR to Assess Prevalence and Intensity Of Intestinal Parasite Infections in a Controlled Clinical Trial. <i>PLoS neglected tropical diseases</i> . 2016; 10(1):e0004380. PubMed [journal] PMID: 26820626, PMCID: PMC4731196
Journal Article	Campbell SJ, Nery SV, McCarthy JS , Gray DJ, Soares Magalhães RJ, Clements AC. A Critical Appraisal of Control Strategies for Soil-Transmitted Helminths. <i>Trends in parasitology</i> . 2016; 32(2):97-107. PubMed [journal] PMID: 26795294
Journal Article	Berna AZ, McCarthy JS , Trowell SC. Malaria detection using breath biomarkers. <i>The Medical journal of Australia</i> . 2016; 204(2):50. PubMed [journal] PMID: 26821093
Journal Article	McCarthy KL , Kidd TJ, Paterson DL. The molecular epidemiology of <i>Pseudomonas aeruginosa</i> bloodstream infection isolates in a non-outbreak setting. <i>J Med Microbiol</i> . 2016 Dec 19. doi: 10.1099/jmm.0.000413. [Epub ahead of print]
Journal Article	McCarthy KL , Paterson DL. Community-acquired <i>Pseudomonas aeruginosa</i> bloodstream infection: a classification that should not falsely reassure the clinician. <i>Eur J Clin Microbiol Infect Dis</i> . 2017 Apr;36(4):703-711. doi: 10.1007/s10096-016-2852-0. Epub 2016 Dec 9. PMID: 27942878
Journal Article	Huber CA, Sidjabat HE, Zowawi HM, Kvaskoff D, Reed S, McNamara JF, McCarthy KL , Harris P, Toh B, Wailan AM, Paterson DL. Detection of carbapenemase activity in Enterobacteriaceae using LC-MS/MS in comparison with the neo-rapid CARB kit using direct visual assessment and colorimetry. <i>J Microbiol Methods</i> . 2016 Dec;131:68-72. doi: 10.1016/j.mimet.2016.10.005. Epub 2016 Oct 11. PubMed PMID:27737785
Journal Article	Rafiei N , Peri AM, Righi E, Harris P , Paterson DL . Central nervous system nocardiosis in Queensland: A report of 20 cases and review of the literature. <i>Medicine (Baltimore)</i> . 2016 Nov;95(46):e5255. Review.
Journal Article	Harris PN , McNamara JF , Lye DC, Davis JS, Bernard L, Cheng AC, Doi Y, Fowler VG Jr, Kaye KS, Leibovici L, Lipman J , Llewellyn MJ, Muñoz-Price S, Paul M, Peleg AY, Rodríguez-Baño J, Rogers BA, Seifert H, Thamlikitkul V, Thwaites G, Tong SY, Turnidge J, Utili R, Webb SA, Paterson DL . Proposed primary endpoints for use in clinical trials that compare treatment options for bloodstream infection in adults: a consensus definition. <i>Clin Microbiol Infect</i> . 2016 Nov 1. pii: S1198-743X(16)30512-2. doi: 10.1016/j.cmi.2016.10.023. [Epub ahead of print]
Journal Article	Trubiano JA, Worth LJ, Urbancic K, Brown TM, Paterson DL ; Australasian Society for Infectious Diseases Clinical Research Network., Lucas M; Australasian Society of Clinical Immunology and Allergy., Phillips E. Return to sender: the need to re-address patient antibiotic allergy labels in Australia and New Zealand. <i>Intern Med J</i> . 2016 Nov;46(11):1311-1317. doi: 10.1111/imj.13221.
Journal Article	Furuya-Kanamori L, Riley TV, Paterson DL , Foster NF, Huber CA, Hong S, Harris-Brown T, Robson J, Clements AC. Comparison of <i>Clostridium difficile</i> Ribotypes Circulating in Australian Hospitals and Communities. <i>J Clin Microbiol</i> . 2016 Dec 28;55(1):216-225. doi: 10.1128/JCM.01779-16. Print 2017 Jan.
Journal Article	Huber CA, Sidjabat HE, Zowawi HM, Kvaskoff D, Reed S, McNamara JF, McCarthy KL , Harris P, Toh B, Wailan AM, Paterson DL . Detection of carbapenemase activity in Enterobacteriaceae using LC-MS/MS in comparison with the neo-rapid CARB kit using direct visual assessment and colorimetry. <i>J Microbiol Methods</i> . 2016 Dec;131:68-72. doi: 10.1016/j.mimet.2016.10.005. Epub 2016 Oct 11.
Journal Article	Gutiérrez-Gutiérrez B, Salamanca E, de Cueto M, Hsueh PR, Viale P, Paño-Pardo JR, Venditti M, Tumbarello M, Daikos G, Pintado V, Doi Y, Tuon FF, Karaiskos I, Machuca I, Schwaber MJ, Azap ÖK, Souli M, Roilides E, Pournaras S, Akova M, Pérez F, Bermejo J, Oliver A, Almela M, Lowman W, Almirante B, Bonomo RA, Carmeli Y, Paterson DL , Pascual A, Rodríguez-Baño J; Investigators from the REIPI/ESGBIS/INCREMENT Group. A Predictive Model of Mortality in Patients With Bloodstream Infections due to Carbapenemase-Producing Enterobacteriaceae. <i>Mayo Clin Proc</i> . 2016 Oct;91(10):1362-1371. doi: 10.1016/j.mayocp.2016.06.024.
Journal Article	Furuya-Kanamori L, Yakob L, Riley TV, Paterson DL , Baker P, McKenzie SJ, Robson J, Clements AC. Community-Acquired <i>Clostridium difficile</i> Infection, Queensland, Australia. <i>Emerg Infect Dis</i> . 2016 Sep;22(9):1659-61. doi: 10.3201/eid2209.151115.
Journal Article	Sarkar S, Roberts LW, Phan MD, Tan L, Lo AW, Peters KM, Paterson DL , Upton M, Ulett GC, Beatson SA, Totsika M, Schembri MA. Comprehensive analysis of type 1 fimbriae regulation in fimB-null strains from the multidrug resistant <i>Escherichia coli</i> ST131 clone. <i>Mol Microbiol</i> . 2016 Sep;101(6):1069-87. doi: 10.1111/mmi.13442. Epub 2016 Jul 15.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Bergen PJ, Bulitta JB, Kirkpatrick CM, Rogers KE, McGregor MJ, Wallis SC, Paterson DL, Lipman J , Roberts JA, Landersdorfer CB. Effect of different renal function on antibacterial effects of piperacillin against <i>Pseudomonas aeruginosa</i> evaluated via the hollow-fibre infection model and mechanism-based modelling. <i>J Antimicrob Chemother.</i> 2016 Sep;71(9):2509-20. doi: 10.1093/jac/dkw153. Epub 2016 May 26.
Journal Article	van Duin D, Paterson DL . Multidrug-Resistant Bacteria in the Community: Trends and Lessons Learned. <i>Infect Dis Clin North Am.</i> 2016 Jun;30(2):377-90. doi: 10.1016/j.idc.2016.02.004.
Journal Article	McNamara JF, Paterson DL, Allworth A, Presneill J, O'Connell P, Henderson RD . Re-activation of varicella zoster virus associated with anterior spinal cord stroke in pregnancy. <i>Infect Dis (Lond).</i> 2016 Sep;48(9):705-7. doi: 10.1080/23744235.2016.1185535. Epub 2016 May 20.
Journal Article	Gutiérrez-Gutiérrez B, Pérez-Galera S, Salamanca E, de Cueto M, Calbo E, Almirante B, Viale P, Oliver A, Pintado V, Gasch O, Martínez-Martínez L, Pitout J, Akova M, Peña C, Molina J, Hernández A, Venditti M, Prim N, Origüen J, Bou G, Tacconelli E, Tumbarello M, Hamprecht A, Giamarellou H, Almela M, Pérez F, Schwaber MJ, Bermejo J, Lowman W, Hsueh PR, Mora-Rillo M, Natera C, Souli M, Bonomo RA, Carmeli Y, Paterson DL , Pascual A, Rodríguez-Baño J. A Multinational, Preregistered Cohort Study of B-Lactam/B-Lactamase Inhibitor Combinations for Treatment of Bloodstream Infections Due to Extended-Spectrum-B-Lactamase-Producing Enterobacteriaceae. <i>Antimicrob Agents Chemother.</i> 2016 Jun 20;60(7):4159-69. doi: 10.1128/AAC.00365-16. Print 2016 Jul.
Journal Article	Wailan AM, Sidjabat HE, Yam WK, Alikhan NF, Petty NK, Sartor AL, Williamson DA, Forde BM, Schembri MA, Beatson SA, Paterson DL , Walsh TR, Partridge SR. Mechanisms Involved in Acquisition of bla _{NDM} Genes by IncA/C2 and IncFIY Plasmids. <i>Antimicrob Agents Chemother.</i> 2016 Jun 20;60(7):4082-8. doi: 10.1128/AAC.00368-16. Print 2016 Jul.
Journal Article	Avent ML, Hansen MP, Gilks C, Del Mar C, Halton K, Sidjabat H, Hall L, Dobson A, Paterson DL , van Driel ML. General Practitioner Antimicrobial Stewardship Programme Study (GAPS): protocol for a cluster randomised controlled trial. <i>BMC Fam Pract.</i> 2016 Apr 21;17:48. doi: 10.1186/s12875-016-0446-7.
Journal Article	Tong SY, Nelson J, Paterson DL , Fowler VG Jr, Howden BP, Cheng AC, Chatfield M, Lipman J , Van Hal S, O'Sullivan M, Robinson JO, Yahav D, Lye D, Davis JS; CAMERA2 study group and the Australasian Society for Infectious Diseases Clinical Research Network. CAMERA2 - combination antibiotic therapy for methicillin-resistant <i>Staphylococcus aureus</i> infection: study protocol for a randomised controlled trial. <i>Trials.</i> 2016 Mar 31;17:170. doi: 10.1186/s13063-016-1295-3.
Journal Article	Cheng AC, Collins DA, Elliott B, Ferguson JK, Paterson DL , Thean S, Riley TV. Laboratory-based surveillance of <i>Clostridium difficile</i> circulating in Australia, September - November 2010. <i>Pathology.</i> 2016 Apr;48(3):257-60. doi: 10.1016/j.pathol.2016.02.005. Epub 2016 Mar 2.
Journal Article	Hall L, Farrington A, Mitchell BG, Barnett AG, Halton K, Allen M, Page K, Gardner A, Havers S, Bailey E, Dancer SJ, Riley TV, Gericke CA, Paterson DL, Graves N. Researching effective approaches to cleaning in hospitals: protocol of the REACH study, a multi-site stepped-wedge randomised trial. <i>Implement Sci.</i> 2016 Mar 24;11:44. doi: 10.1186/s13012-016-0406-6.
Journal Article	Furuya-Kanamori L, Doi SA, Paterson DL , Helms SK, Yakob L, McKenzie SJ, Garborg K, Emanuelsson F, Stollman N, Kronman MP, Clark J, Huber CA, Riley TV, Clements AC. Upper Versus Lower Gastrointestinal Delivery for Transplantation of Fecal Microbiota in Recurrent or Refractory <i>Clostridium difficile</i> Infection: A Collaborative Analysis of Individual Patient Data From 14 Studies. <i>J Clin Gastroenterol.</i> 2017 Feb;51(2):145-150. doi: 10.1097/MCG.0000000000000511.
Journal Article	Sinclair HA, Heney C , Sidjabat HE, George NM , Bergh H, Anuj SN, Nimmo GR, Paterson DL . Genotypic and phenotypic identification of <i>Aeromonas</i> species and CphA-mediated carbapenem resistance in Queensland, Australia. <i>Diagn Microbiol Infect Dis.</i> 2016 May;85(1):98-101. doi: 10.1016/j.diagmicrobio.2016.02.005. Epub 2016 Mar 10.
Journal Article	Gutiérrez-Gutiérrez B, Bonomo RA, Carmeli Y, Paterson DL , Almirante B, Martínez-Martínez L, Oliver A, Calbo E, Peña C, Akova M, Pitout J, Origüen J, Pintado V, García-Vázquez E, Gasch O, Hamprecht A, Prim N, Tumbarello M, Bou G, Viale P, Tacconelli E, Almela M, Pérez F, Giamarellou H, Cisneros JM, Schwaber MJ, Venditti M, Lowman W, Bermejo J, Hsueh PR, Mora-Rillo M, Gracia-Ahulfinger I, Pascual A, Rodríguez-Baño J; REIPI/ESGBIS/INCREMENT Group. Ertapenem for the treatment of bloodstream infections due to ESBL-producing Enterobacteriaceae: a multinational pre-registered cohort study. <i>J Antimicrob Chemother.</i> 2016 Jun;71(6):1672-80. doi: 10.1093/jac/dkv502. Epub 2016 Feb 22.
Journal Article	Choudhury MA, Marsh N, Banu S, Paterson DL , Rickard CM, McMillan DJ. Molecular Comparison of Bacterial Communities on Peripheral Intravenous Catheters and Matched Skin Swabs. <i>PLoS One.</i> 2016 Jan 5;11(1):e0146354. doi: 10.1371/journal.pone.0146354. eCollection 2016.
Journal Article	Furuya-Kanamori L, Wangdi K, Yakob L, McKenzie SJ, Doi SA, Clark J, Paterson DL , Riley TV, Clements AC. 25-Hydroxyvitamin D Concentrations and <i>Clostridium difficile</i> Infection: A Meta-Analysis. <i>JPEN J Parenter Enteral Nutr.</i> 2015 Dec 23. pii: 0148607115623457. [Epub ahead of print]
Journal Article	Nation RL, Garonzik SM, Li J, Thamlikitkul V, Giamarellos-Bourboulis EJ, Paterson DL , Turnidge JD, Forrest A, Silveira FP. Updated US and European Dose Recommendations for Intravenous Colistin: How Do They Perform? <i>Clin Infect Dis.</i> 2016 Mar 1;62(5):552-8. doi: 10.1093/cid/civ964. Epub 2015 Nov 25.
Journal Article	Paterson DL , Harris PN. Colistin resistance: a major breach in our last line of defence. <i>Lancet Infect Dis.</i> 2016 Feb;16(2):132-3. doi: 10.1016/S1473-3099(15)00463-6. Epub 2015 Nov 19.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Popejoy MW, Paterson DL , Cloutier D, Huntington JA, Miller B, Bliss CA, Steenberg JN, Hershberger E, Umeh O, Kaye KS. Efficacy of ceftolozane/tazobactam against urinary tract and intra-abdominal infections caused by ESBL-producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> : a pooled analysis of Phase 3 clinical trials. <i>J Antimicrob Chemother</i> . 2017 Jan;72(1):268-272. Epub 2016 Oct 5. PubMed PMID: 27707990.
Journal Article	Falcone M, Paterson D . Spotlight on ceftazidime/avibactam: a new option for MDR Gram-negative infections. <i>J Antimicrob Chemother</i> . 2016 Oct;71(10):2713-22. doi: 10.1093/jac/dkw239. Epub 2016 Jul 17. Review. PubMed PMID: 27432599.
Journal Article	Bandeshe H, Boots R, Dulhunty J, Dunlop R, Holley A, Jarrett P, Gomersall CD, Lipman J, Lo T, O'Donoghue S, Paratz J, Paterson D , Roberts JA, Starr T, Stephens D, Stuart J, Thomas J, Udy A, White H. Is inhaled prophylactic heparin useful for prevention and Management of Pneumonia in ventilated ICU patients?: The IPHIVAP investigators of the Australian and New Zealand Intensive Care Society Clinical Trials Group. <i>J Crit Care</i> . 2016 Aug;34:95-102. doi: 10.1016/j.jcrc.2016.04.005. Epub 2016 Apr 9. PubMed PMID: 27288618.
Journal Article	Graves N, Page K, Martin E, Brain D, Hall L, Campbell M, Fulop N, Jimmieson N, White K, Paterson D , Barnett AG. Cost-Effectiveness of a National Initiative to Improve Hand Hygiene Compliance Using the Outcome of Healthcare Associated <i>Staphylococcus aureus</i> Bacteraemia. <i>PLoS One</i> . 2016 Feb 9;11(2):e0148190. doi: 10.1371/journal.pone.0148190. eCollection 2016. PubMed PMID: 26859688; PubMed Central PMCID: PMC4747462.
Journal Article	White KM, Starfelt LC, Jimmieson NL, Campbell M, Graves N, Barnett AG, Cockshaw W, Gee P, Page K, Martin E, Brain D, Paterson D . Understanding the determinants of Australian hospital nurses' hand hygiene decisions following the implementation of a national hand hygiene initiative. <i>Health Educ Res</i> . 2015 Dec;30(6):959-70. doi: 10.1093/her/cyv057. PubMed PMID: 26590244.
Journal Article	Furuya-Kanamori L, Marquess J, Yakob L, Riley TV, Paterson DL , Foster NF, Huber CA, Clements AC. Asymptomatic <i>Clostridium difficile</i> colonization: epidemiology and clinical implications. <i>BMC Infect Dis</i> . 2015 Nov 14;15:516. doi: 10.1186/s12879-015-1258-4. Review. PubMed PMID: 26573915; PubMed Central PMCID: PMC4647607.
Journal Article	Harris PN, Wei JY, Shen AW, Abdile AA, Paynter S, Huxley RR, Pandeya N, Doi Y, Huh K, O'Neal CS, Talbot TR, Paterson DL . Carbapenems versus alternative antibiotics for the treatment of bloodstream infections caused by <i>Enterobacter</i> , <i>Citrobacter</i> or <i>Serratia</i> species: a systematic review with meta-analysis. <i>J Antimicrob Chemother</i> . 2016 Feb;71(2):296-306. doi: 10.1093/jac/dkv346. Epub 2015 Nov 4. Review. PubMed PMID: 26542304.
Journal Article	Bartley PB, Ben Zakour NL, Stanton-Cook M, Muguli R, Prado L, Garnys V, Taylor K, Barnett TC, Pinna G, Robson J, Paterson DL , Walker MJ, Schembri MA, Beatson SA. Hospital-wide Eradication of a Nosocomial <i>Legionella pneumophila</i> Serogroup 1 Outbreak. <i>Clin Infect Dis</i> . 2016 Feb 1;62(3):273-9. doi: 10.1093/cid/civ870. Epub 2015 Oct 13. PubMed PMID: 26462745.
Journal Article	Lim A, Kaur G, Poyck P, Vyas V, Redmond A, Quinn S. <i>Bacillus Calmette-Guérin</i> immunotherapy: a rare cause for a ruptured common femoral artery. <i>ANZ J Surg</i> . 2016 Apr 15. doi: 10.1111/ans.13595. [Epub ahead of print] PMID: 27079294
Journal Article	Chew R , Dorman A, Woods ML . <i>Purpureocillium lilacinum</i> keratitis: a case series and review of the literature. <i>Can J Ophthalmol</i> . 2016 Oct;51(5):382-385. doi: 10.1016/j.jcjo.2016.05.013. Epub 2016 Sep 3. PMID: 2776933
Journal Article	Chew R , Woods ML . Flucloxacillin does not achieve therapeutic cerebrospinal fluid levels against methicillin-sensitive <i>Staphylococcus aureus</i> in adults: A case report and review of the literature. <i>Int J Antimicrob Agents</i> . 2016 Mar;47(3):229-31. doi: 10.1016/j.ijantimicag.2015.12.009. Epub 2016 Jan 15. PMID: 26915477

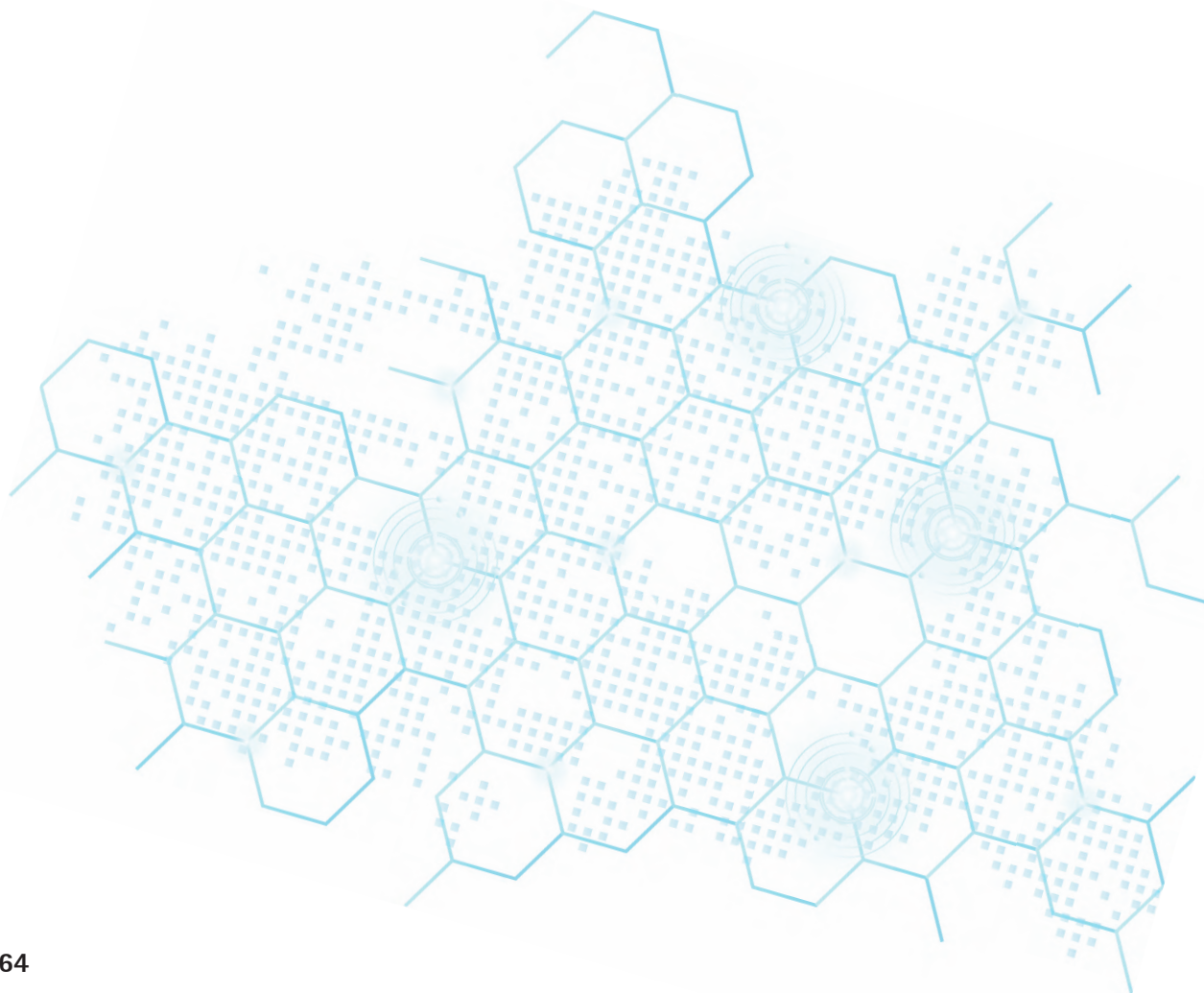


2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Hall M. Varicella Zoster virus containing vaccines in persons with low level immunocompromise Public Health Association of Australia National Immunisation Conference, 2016 and 25th annual Royal Brisbane and Women's Hospital Healthcare Symposium, 2016
Poster	Hall M. Improving healthcare worker vaccine uptake: Implementing a Nurse Practitioner led vaccination service. Public Health Association of Australia National Immunisation Conference, 2016 and 25th annual Royal Brisbane and Women's Hospital Healthcare Symposium, 2016
Oral	McCarthy KL, Paterson DL. Long term mortality following Pseudomonas aeruginosa blood stream infection. Australian Society for Infectious Diseases Annual Scientific Meeting 2016. Launceston, Australia.
Poster	McCarthy KL, Paterson DL. Community-acquired Pseudomonas aeruginosa bloodstream infection: a classification that should not falsely reassure the clinician. Australian Society for Infectious Diseases Annual Scientific Meeting 2016. Launceston, Australia.
Poster	McCarthy KL, Paterson DL. Recurrent Pseudomonas aeruginosa bacteraemia: Who is at risk? Asia-Pacific Congress of Clinical Microbiology and Infection 2016. Melbourne, Australia.
Oral	McCarthy KL, Kidd TJ, Paterson DL. The molecular epidemiology of Pseudomonas aeruginosa bloodstream infection isolates in a non-outbreak setting. Asia-Pacific Congress of Clinical Microbiology and Infection 2016. Melbourne, Australia.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Infectious Diseases	73	0	4	2



Internal Medicine and Aged Care

The Internal Medicine Research Unit supports investigator initiated collaborative research with a particular focus on clinical and health services studies intended to directly improve hospital and post-hospital patient outcomes.

Our main focus areas are:

- Reducing geriatric syndromes in older inpatients.
- Improving collaborative models of care for inpatients.
- Improving management of chronic diseases including heart failure, thyroid disease and multi-morbidity.
- Improving rational use of medications.
- Knowledge translation and implementation science.

Our researchers actively engage in translation activities including presenting at national and international forums, teaching, high level leadership and clinical redesign of services based on emerging evidence.

Major grants include the multi-site CHERISH project led by Dr Alison Mudge and funded by a \$1.5 million Queensland Accelerate Partnership grant. Fellowships include a Health and Medical Research Fellowship (Dr Mudge) and Junior Doctor Research Fellowship (Dr Dylan Flaws, co-supervised by Dr Mudge).

Dr Mudge and her team won the Metro North HHS Research Excellence Awards 2016 for *“Improving patient outcomes in an acute care setting”*.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Julie Adsett	PhD Griffith 2012-2018	Aquatic exercise for patients with stable heart failure	Norman Morris, Suzanne Kuys, Jennifer Paratz, Alison Mudge
Angela Byrnes	PhD UQ 2015-2018	Investigating the nutritional status and care of older (65 years) patients on two general surgical wards: A multiphase, action research study	Judy Bauer, Adrienne Young, Alison Mudge, Marilyn Banks
Brooke Myers	PhD, UQ (2014-current)	Role of the Pharmacist on the Medical Post-Take Ward Round	Ian Coombes , Charles Mitchell, Peter Donovan , Jennifer Whitty
Carly Leiseman	Honours, UQ (2016)	Barriers and facilitators to post-operative mobility from the older patient's perspective	Alison Mandrusiak, R Nund, Prue McRae, Alison Mudge, Mark Cruickshank
Helen Fitzmaurice	Honours, UQ (2016)	Barriers and facilitators of post-operative mobility from the perspectives of physiotherapists and allied health assistants	Alison Mandrusiak, R Nund, Prue McRae, Alison Mudge, Mark Cruickshank

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Position	Research Program	University Affiliation (years)
Alison Mudge	Adjunct Professor	Improving acute and post-hospital care of older patients	QUT (2013-current)
Charles Denaro	Associate Professor	Faculty of Medicine	UQ (1998-current)
Julie Adsett	National Heart Failure or Australia Postgraduate Scholarship	Safety and efficacy of aquatic exercise in patients with stable heart failure	NHF 2012-17
Dylan Flaws	Queensland Junior Doctor Fellowship	Developing and validating a delirium risk score in older inpatients	2016-2018
Karen Lee-Steere	Metro North CAHRLI pre-PhD Fellowship	Improving care of older patients with or at risk of delirium	2016

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Alison Mudge	Prue McRae, Merrillyn Banks, Adrienne Young, Teresa Green, Adrian Barnett (QUT), Irene Blackberry(Latrobe), Nick Graves N (QUT), Ruth Hubbard (UQ),Sharon Inouye (Harvard), Sue Kurrle (U Syd), Kwan Lim (U Melb), Nancye Peel(UQ)	CHERISH: Collaborative for Hospitalised Elders Reducing the Impact of Stays in Hospital
Alison Mudge, Prue McRae	Paul Bew (Brighton), Jofferson Yarde (Brighton), Debbie Leahy (Brighton), Simon Smith and Alicia Allen(QUT)	Moving Brighton Forward: mobility in a subacute setting
Julie Adsett	Alison Mudge, Jenny Paratz (Crit Care), Norm Morris (Griffith), Suzanne Kuys (ACU)	Aquatic exercise compared to land based exercise for heart failure
Peter Donovan	Christine Rowland (Greenslopes Private Hospital) Emma Duncan (Endocrinology) Alison Mudge (Internal Medicine) Paul Tesar (Radiology)	Teriparatide for Pelvic Fracture Healing
Peter Donovan	Donald McLeod (Endocrinology) Louisa Gordon (QIMR Berghofer)	Cost Utility Analysis of the Primary Therapies for Graves' Disease
Alison Mudge	Statewide Older Person Health Clinical Network acute care workgroup	Statewide survey of older person friendly hospital practices
Alison Mudge	Adrienne Young, Ruth Hubbard (UQ)Prue McRae, Merrillyn Banks, Fred Graham (MSHHS), Elizabeth Beattie (QUT), Len Gray (UQ)	The older person friendly hospital
Alison Mudge	Paul Scuffham (Griffith), Shoko Maru (Griffith), Jessica Suna	Cost-effectiveness analysis of a randomised controlled trial of supervised exercise training for recently discharged heart failure (EJECTION-HF)
Peter Donovan (Clinical Pharmacology)	Donald McLeod (Endocrinology) Louisa Gordon (QIMR Berghofer)	Cost Utility Analysis of the Primary Therapies for Graves' Disease

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Donald McLeod (Endocrinology)	Peter Donovan, Michael Keogh (Endocrinology)	Treat-to-Target TRAb in Graves' Disease
Douglas C (Pall Care)	Alison Mudge, Stephen Murray, Michael Tresillian, Xanthe Sansome, Simon Finnigan,Cheryl Blaber (SQU)	Point prevalence survey of end of life predictors and care in a major tertiary hospital
Phillip Robinson (Rheumatology)	Peter Donovan Nicola Dalbeth (University of Auckland, Auckland Hospital)	A Health Economic Analysis Of The American College Of Rheumatology Guideline To Monitor Serum Urate Every 6 Months After Reaching Target In Gout Treatment
Ian Coombes (Pharmacy)	Peter Donovan , Michael Barras (Pharmacy), Charles Mitchel (UQ), Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell (Gold Coast University Hospital)	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback
Hannah Farquhar (Medicine)	Don McLeod (Endocrinology), Peter Donovan, Roger Allison (Cancer Care), Susan Thomas (Cancer Care), Lee Tripcony (Cancer Care)	Validating a response to therapy risk stratification system for Medullary Thyroid Cancer

Research Awards and Achievements

Recipient	Award	Event
Alison Mudge	Metro North HHS Research Excellence Award	Metro North HHS Research Excellence Awards 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Alison Mudge, Prue McRae, Merrilyn Banks, Adrienne Young, Teresa Green, Adrian Barnett, Irene Blackberry, Nick Graves, Ruth Hubbard, Sharon Inouye, Sue Kurrle, Kwan Lim, Nancye Peel	Internal Medicine and Aged Care; Nursing; Nutrition and Dietetics	CHERISH: Collaborative for Hospitalised Elders Reducing the Impact of Stays in Hospital	Queensland Accelerate Partnership Grant	\$500,000	\$1,500,000 (2015-2017)
Julie Adsett, Norman Morris, Alison Mudge	IMAC, Heart failure services	Aquatic versus land based exercise training for people with stable heart failure	National Heart Failure Postgraduate Scholarship	\$11,864	\$71439.50 (2012-2017)
Alison Mudge, Ruth Hubbard, Len Gray, Elizabeth Whiting, Elizabeth Beattie, Merrilyn Banks, Prue McRae, Fred Graham, Adrienne Young	IMAC, Nutrition and Dietetics	The Older Person Friendly Hospital,	Brisbane Diamantina Health Partners Strategic Partnership Grant	\$14,000	\$20,000
Alison Mudge, Prue McRae, Paul Bew, Debbie Leahy, Stephen Smith, Alicia Allen	IMAC	Moving Brighton Forwards: an observational study of mobility patterns and barriers in a sub-acute care setting,	MNHHS SEED Project,	\$73,491	\$73,491
Ian Coombes, Peter Donovan, Michael Barras, Charles Mitchel, Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell	Pharmacy, Clinical Pharmacology	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback	RBWH Foundation	\$40,000	\$40,000
Hoy W, Mallett A, Healy H, Cameron A, Thomas M, Denaro C.	Renal medicine, IMAC	aCQuiRE study	Sanofi/Genzyme		\$946,554
Mudge A and SOPHCN Acute Care Working Group	IMAC	Older Person Friendly Hospital Statewide Survey	Health Innovation Fund 2015-6	\$50,000	\$72,000

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Hwang R, Morris NR, Mandrusiak A, Mudge A, Suna J, Adsett J, Russell T. Timed up and go test: A reliable and valid test in patients with chronic heart failure. J Card Fail. 2016; 22(8): 646-650.
Journal Article	Chari S, Smith S, Mudge A, Black A, Figuero M, Ahmed M, Devitt M, Haines TP. Feasibility of a stepped wedge cluster RCT and concurrent observational sub-study to evaluate the effects of modified ward night lighting on inpatient fall rates and sleep quality: a protocol for a pilot trial. BMC Pilot and Feasibility Studies 2016 2:1
Journal Article	Banks M, Ross L, Webster J, Mudge A, Stankiwicz M, Dwyer K, Coleman K, Campbell J. Does treatment with an intensive nutrition intervention improve pressure ulcer healing compared to standard care in an acute hospital setting? A pilot randomised controlled study. J Wound Care 2016;25 (7):384-392
Journal Article	Young A, Allia A, Joliffe L, De Jersey S, Mudge A, McRae P, Banks M. Assisted or Protected Mealtimes? Exploring the impact of hospital mealtime practices on meal intake J Adv Nurs 2016; 72:1616-25
Journal Article	Pattullo CS, Barras M, Tai B, McKean M, Donovan PJ. New Oral Anticoagulants (NOACs) – appropriateness of prescribing in real- world setting: NOACs – appropriateness of prescribing. Intern Med J. 2016 Jul;46(7):812-8.
Journal Article	McRae PJ, Walker PJ, Peel NM, Hobson D, Parsonson F, Donovan P, Reade MC, Marquart L, Mudge AM. Frailty and Geriatric Syndromes in Vascular Surgical Ward Patients. Ann Vasc Surg. 2016 Aug;35:9-18. doi: 10.1016/j.avsg.2016.01.033. Epub 2016 May 27.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Donovan PJ, McLeod DS , Little R, Gordon L. Cost-Utility Analysis Comparing Radioactive Iodine, Antithyroid Drugs and Total Thyroidectomy for Primary Treatment of Graves' Disease. <i>Eur J Endocrinol.</i> 2016 Dec;175(6):595-603. Epub 2016 Sep 15.
Journal Article	Mudge A , Radnedge K, Kasper K, Mullins R, Adsett J, Rofail S, Lloyd S, Barras M . Effects of a pilot multidisciplinary clinic for frequent attending elderly patients on deprescribing. <i>Aust Health Review</i> 2016; 40:86-91
Journal Article	Mudge AM, McRae P , McHugh K, Griffin L, Hitchen A, Walker J, Cruickshank M, Morris NR, Kuys S. Poor mobility in hospitalised patients of all ages. <i>J Hosp Med.</i> 2016 Apr;11(4):289-91.
Journal Article	Kozor R, Grieve SM, Tchan MC, Callaghan F, Hamilton-Craig C, Denaro C , Moon JC, Figtree GA. Cardiac involvement in genotype-positive Fabry disease patients assessed by cardiovascular MR. <i>Heart</i> 2016; 102:298-302. doi: 10.1136/heartjnl-2015-308494.
Journal Article	Denaro C , Martin J. The Challenge of Costly Drugs. <i>Aust Prescr</i> 2016; 39:72-74.
Journal Article	Carroll R, Mudge A, Suna J, Denaro C, Atherton J . Prescribing and up-titration in recently hospitalized heart failure patients attending a disease management program. <i>Int J Card</i> 2016; 216:121-127. doi:10.1016/j.ijcard.2016.04.084
Journal Article	Hickey A, Suna J , Marquart L, Denaro CP , Javorsky G, Munns A, Mudge A, Atherton J . Improving medication titration in heart failure by embedding a structured medication titration plan. <i>Int J Card</i> 2016; 224:99-106. doi: 10.1016/j.ijcard.2016.09.001
Letter	Denaro C , Martin J. The challenge of costly drugs – a response to a Letter to the Editor. (Letter), <i>Aust Prescr</i> 2016; 39:149

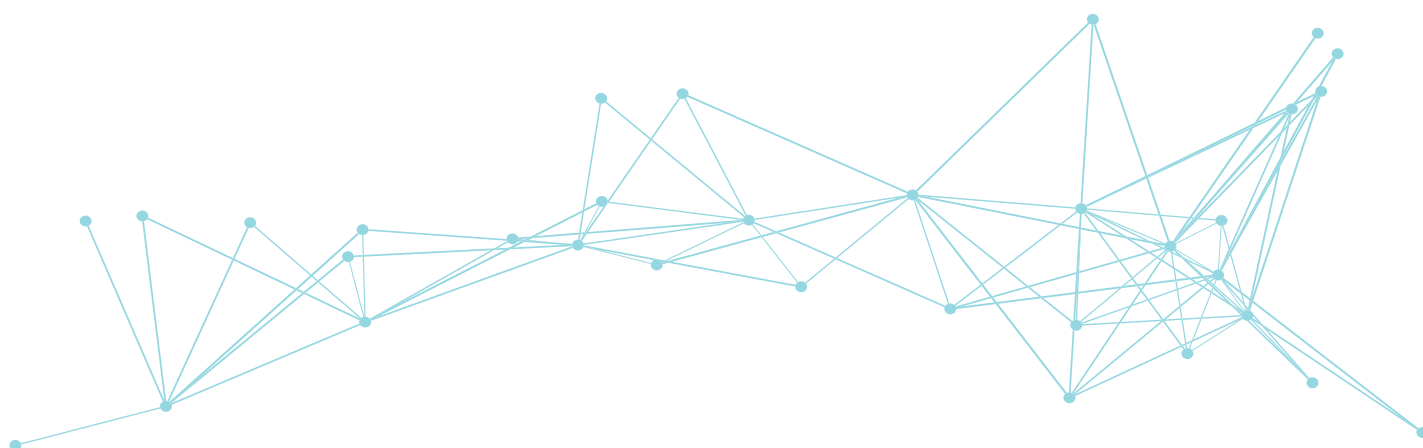


2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Lee-Steere K, McRae P, Cahill M, Kurtz B, Mudge A. A systematic approach to preventing delirium in acute hospitals. Australian Delirium Society meeting 2016
Poster	Adsett J, Morris N, Kuys S, Hwang R, Mullins R, Khatun M, Paratz J, Mudge A. Aquatic exercise is effective at maintaining exercise performance in trained heart failure patients : A randomised crossover trial. ESC Heart Failure Congress Florence 2016
Invited speaker	Adsett J, Heart Failure and exercise training : What's new? Queensland Cardiovascular Health and Rehabilitation Association Conference 2016
Oral	Adsett J. Aquatic exercise is effective at maintaining exercise performance in patients with stable heart failure. National Heart Foundation Qld Cardiovascular Research Showcase 2016
Invited speaker	Adsett J. Aquatic exercise and heart failure. State-wide Heart Failure Services Exercise Forum June 2016
Invited speaker	Mudge A. The science of implementation: how to evaluate the benefits of clinical interventions and factors for success" Metro North HHS Research Workshop September 2016.
Invited speaker	Mudge A. Predictors of outcomes for patients attending heart failure rehabilitation Statewide heart failure Services Exercise Training and Heart Failure workshop June 2013
Invited speaker	Mudge A. The older person friendly hospital. Statewide General Medicine Clinical Network Annual Forum December 2016
Invited speaker and facilitator	Kitson A, Harvey G, Damschroder L, Mudge A, Campbell M. Knowledge Translation and Implementation . In collaboration with AusHSI, University of Adelaide and the Deeble Institute. Three day workshop.
Invited speaker and facilitator	Kitson A, Harvey G, McRae P, Young A, Campbell M, Karnon J, Knowledge Translation Workshop, Getting Evidence into Practice: Steps to Success, University of Adelaide and AusHSI, Adelaide 15-17 November 2016. THREE DAY WORKSHOP

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Internal Medicine and Aged Care	13	0	10	2



Kidney Health Service

The Kidney Health Service activated important new research programs in delivering patient care in better ways, in giving our patients greater certainty about the cause of their genetic kidney disease and in expanding the knowledge of the pathobiology of chronic diseases in the kidneys. During 2016 we also built the research outputs of the two prestigious NHMRC funded Centres of Research Excellence, in Chronic Kidney Disease (CKD) and End of Life. Dr Helen Healy was awarded an inaugural MNHHS Research Excellence Award, in the category of Chronic Disease and Community Care, in May for the work of the CKD.CRE Collaborative and Professor Ann Bonner the QUT Vice-Chancellor's Performance Award in December.

The profile of our young researchers is present throughout the programs with Dr Andrew Mallett appointed National Director of KIDGen, Dr Kassianos initiating his NHMRC funded project studying how dendritic cells operate in CKD and Dr Louise Purtell bringing the methods of Implementation Science to the evaluation of the Kidney Supportive Care program. The outputs of the Renal Nursing Professorial Unit, led by Professor Bonner and focusing on how our patients interact with the health system, are impressive.

Notable is the breadth of collaborations, both within RBWH and externally. They are characterised by bringing new investigators like Professors Suceena Alexander and Santosh Varughese, Vellore Christian Medical College, into established groups and strong relationships with researchers of outstanding track records, like Professors Wendy Hoy at the University of Queensland and Melissa Little at the Murdoch Research Institute. Not surprisingly the volume of conference presentations this year is considerable, attesting to the productivity of the research programs and signalling publications in future years.

And our patients are noticing the differences with responses recorded in the evaluation of one program as follows:

- What, there's a choice (of treatment pathways)? (Patient).
- I think that if we haven't been coming here things would have deteriorated purely because we didn't know what we're dealing with and probably would've been back in hospital ... just to find out what the hell's going on (Carer).
- They're doing things to suit patient, not to suit a generic patient (Carer).
- You get down to how a person is going (Patient).

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Andrew Mallett	PhD, UQ (2014-2016) Conferred	Genetic Diagnostics in Genetic Renal Disease - Methods, Applications and Therapeutics	Dr Helen Healy , Prof Wendy Hoy, Dr Val Hyland, Prof David Johnson
Becker M.P. Law	PhD, QUT (2015-2018)	Functional characterisation of lymphocyte subsets in human kidney disease	Dr Helen Healy , Dr Andrew Kassianos , Prof Ken Beagley, A/Prof Ray Wilkinson
Brian Gregory	MAppSc, QUT (2016-2018)	The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury.	Fiona Coyer , Ann Bonner , Jason Roberts
Colette Wembenyui	MAppSc, QUT (2015-2017)	Self-management in people with chronic kidney disease	Ann Bonner , Clint Douglas
David McIntyre	MAppSc, QUT (2016-2018)	Haemodialysis nurse sensitive indicators	Ann Bonner , Fiona Coyer
Ha Thi Thuy Dinh	PhD, QUT (2013-2016) Conferred	Exploring teach-back as a method for improving Heart Failure knowledge and self-management	Ann Bonner , Joanne Ramsbotham, Robyn Clark
Hajar Alasmari	PhD, QUT (2013-2017)	Examining intensive care nurses' clinical decision-making associated with acute kidney injury and continuous renal replacement therapy	Ann Bonner , Fiona Coyer
Haunnah Rheault	DHlthSc, QUT (2014-2020)	Health literacy and chronic disease self-management in Indigenous Australians.	Ann Bonner , Fiona Coyer
Hayfa Almutary	PhD, QUT (2013-2017)	Exploring symptom clusters in people with chronic kidney disease	Ann Bonner , Clint Douglas

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.) University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Kathryn Havas	PhD, QUT (2014-2018)	Comparison of a brief and an in-depth intervention to support self-management in people with chronic kidney disease	Ann Bonner , Clint Douglas
Lan Van Hoang	PhD, QUT (2016-2019)	Relationship between health care supports, social supports and patient outcomes among haemodialysis population in Vietnam	Ann Bonner , Theresa Green
Leanne Brown	PhD, QUT (2013-2017)	Evaluating patient-centred decision making for end of life care in end stage kidney disease	Glenn Gardner, Ann Bonner
Molly Milazi	DHlthSc, QUT (2014-2020)	Nurse-led teach back intervention to improve people with End Stage Kidney Disease adherence with phosphate control	Ann Bonner , Clint Douglas
Nguyet Thi Nguyen	PhD, QUT (2014-2018)	Self-management of people with early stages of chronic kidney disease in Hanoi, Vietnam	Ann Bonner , Clint Douglas

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Ann Bonner	Honorary Research Fellow	Renal Nursing Professorial Unit	QUT (2011-current)
Ann Bonner	Honorary Professor	Faculty of Nursing & Midwifery	Hanoi Medical University (2014-current)
Ann Bonner	Visiting Renal Nurse Scholar	Renal Medicine	Princes Alexandra Hospital (2013-current)
Ann Bonner	Visiting Nurse Scholar	Department of Nursing	Logan & Beaudesert Hospitals (2014-current)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Andrew Mallett	Wendy Hoy (UQ), Helen Healy (Kidney Health Service) , Charles Denaro (Department of Internal Medicine)	The aCQuiRE Study (CKD.QLD Fabry Epidemiology)
Andrew Mallett - KIDGen	Chirag Patel (Genetics Health Queensland) , Helen Healy (Kidney Health Service) , Julie McGaughran (Genetics Health Queensland) , Melissa Little (Murdoch Research Institute), Lorna Hale, Ernst Wolvetang (IMB, UQ), Cas Simons (IMB, UQ), Jo Crawford, Ian Smyth (Monash), Peter Trnka (LCCH), Hugh McCarthy, Steve Alexander, Amali Mallawaarachchi, Cathy Quinlan (RMH), Zornitsa Stark	NGS and iPSC Applications in Genetic and Inheritable Kidney Disease
Ann Bonner	Patsy Yates (QUT), Geoff Mitchell (UQ), David Currow, Kathy Eagar (University of Wollongong), Helen Edwards (QUT & MNHHS Board) , Glenn Gardner (QUT), Lindy Willmott (QUT), Robyn Clark (Flinders University), Jennifer Tieman (Flinders University)	NHMRC Centre of Research Excellence, End of Life Care (1060254).
Ann Bonner	Clint Douglas (QUT), Kathryn Havas (QUT), Cassandra Stone (Logan Hospital), Maureen Barnes (Logan Hospital), Jennifer Abel (Logan Hospital), Vincent Tam (QUT)	Evaluation of the integrated chronic disease nurse practitioner model of care
Ann Bonner	Katrina Campbell (Bond University)	Technology use for information in Kidney Disease: A Survey of CKD patients

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Ann Bonner	Shirley Chambers (QUT), Helen Healy (Kidney Health Service) , Patsy Yates (QUT), Wendy Hoy (UQ), Geoff Mitchell (UQ), Adrian Kark (Kidney Health Service) , Carol Douglas (Palliative Care) , James Stevenson (TPCH), Caroline Johnson (UWA), Sharad Ratanjee (Kidney Health Service)	Achieving needs-based end-of-life services: A prospective, longitudinal study of the pathways for patients with Stage 3-5 Chronic Kidney Disease (CKD)
Helen Healy	Ann Bonner (QUT & Kidney Health Service) , Luke Worth (Executive) , Ilse Berquier (Kidney Health Service) , Luke Connolly (UQ), Carol Douglas (Palliative Care Services) , Clint Douglas (QUT) , Kate Mason (Division of Internal Medicine) , Mike Terry (Kidney Health Service) , Wendy Hoy (UQ), Patsy Yates (QUT)	Evaluating the implementation of a Kidney Supportive Care Program into a Hospital and Health Service
Helen Healy	Ray Wilkinson (QPathol), Andrew Kassianos (Kidney Health Service) , George John (Kidney Health Service) , Melissa Rist (Kidney Health Service) , Katrina Kildey (Kidney Health Service) , Xiangju Wang (QPathol), Becker Law (QPathol, QUT)	Identifying biologically relevant control and switch points driving progression of chronic kidney disease
Helen Healy	Ross Francis (PAH), Andrew Kassianos (Kidney Health Service) , Ray Wilkinson (QPathol), George John (Kidney Health Service) , Katrina Kildey (Kidney Health Service)	The molecular language of Immune cells in renal transplant rejection
Helen Healy, Ann Bonner	Wendy Hoy (UQ), Luke Connolly (UQ), Geoff Mitchell (UQ), Kathryn Panaretto (Queensland Aboriginal and Islander Health Council), Zoltan Endre (UNSW), Glenda Gobe (UQ), Jeff Coombes (UQ), Rob Fassett (UQ)	NHMRC Chronic Kidney Disease Centre of Research Excellence (1079502)

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Chen Au Peh (Royal Adelaide Hospital, AKTN)	Dwarakanathan Ranganathan	Plasma Exchange in Vasculitis – the PLEXIVAS Study
David Jayne (University of Cambridge)	Dwarakanathan Ranganathan, Andrew Mallett	Rituximab with azathioprine as maintenance therapy in relapsing ANCA-associated vasculitis
Nicole Isabel (Princess Alexandra Hospital)	Dwarakanathan Ranganathan, Andrew Mallett	aHUS registry
Patsy Yates (QUT)	Ann Bonner	Postdoctoral research fellowships
Suceena Alexander (Christian Medical College, Vellore, India)	Helen Healy, George John, Andrew Kassianos	Pathogenic molecular and cellular signalling leading to chronic kidney disease in primary Focal and Segmental Glomerulosclerosis (FSGS) in Indians
Santosh Varughese (Christian Medical College, Vellore)	Helen Healy, George John, Andrew Kassianos	Molecular profiling in renal allograft recipients with acute rejection and chronic allograft dysfunction

Research Awards and Achievements

Recipient	Award	Event
Andrew Mallett	Best Collaborative Research Award	2016 RBWH Symposium
Ann Bonner	QUT Vice-Chancellor's Performance Award	QUT Awards, 11 December 2016
Ann Bonner	Lifetime member	Renal Society of Australasia, 20 June 2016

Recipient	Award	Event
Ann Bonner	Best Manuscript prize	45th EDTNA/ERCA International Conference, Spain, 17-20 September 2016
Ann Bonner	Best Oral presentation	6th Pan-Pacific Nursing Conference and First Colloquium on Chronic Illness Care, Hong Kong, 3-5 March 2016
Becker Law	Queensland Pathology Scholarship	PhD studies – commenced 2015
Helen Healy	Finalist, Basic Science Award	51st Australian and New Zealand Society of Nephrology Annual Scientific Meeting
Helen Healy, Wendy Hoy, Ann Bonner	Chronic Disease and Community Care	Research Excellence Awards, Metro North Hospital and Health Service May 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Andrew Kassianos, Helen Healy, Ray Wilkinson	Kidney Health Service	Proximal tubule epithelial cell (PTEC)-lymphocyte cross-talk during renal hypoxic injury.	Royal Brisbane and Women's Hospital Research Grant		\$40,000 (2016)
Andrew Kassianos, Helen Healy, Ray Wilkinson, Leo Francis, Ross Francis	Kidney Health Service	Pathogenic dendritic cells in human kidney disease – APP1099222	NHMRC		\$370,983 (2016-2018)
Andrew Mallett, Helen Healy, Chirag Patel, Julie McGaughran, Cas Simons, Melissa Little	Kidney Health Service, Genetic Health QLD	Functional Genomics in Inherited Kidney Disease	Royal Brisbane and Women's Hospital Research Foundation Project Grant	\$40,000	
Helen Healy, Andrew Kassianos, Ray Wilkinson, Andreas Moller, Jason Mulvenna	Kidney Health Service	The functional characterization of primary human proximal tubule epithelial (PTEC)-derived exosomes	Royal Brisbane and Women's Hospital Research Grant	\$40,000	
Helen Healy, Ann Bonner, Luke Worth, Ilse Berquier, Luke Connolly, Carol Douglas, Clint Douglas, Kate Mason, Mike Terry, Wendy Hoy, Patsy Yates	Kidney Health Centre	Evaluating the implementation of a Kidney Supportive Care Program into a Hospital and Health Service	Australian Centre for Health Service (AushSI)	\$150,000	\$150,000 (2016)
Leanne Brown, Ann Bonner , Glenn Gardner	Kidney Health Service	A randomised controlled trial (RTC) of a decision support intervention to support patients' decision making for management of end stage kidney disease	Queensland Health	\$9,959	\$9,959 (2016)
Melissa Little, Ian Smyth, Cas Simons, Steve Alexander, Andrew Mallett	Kidney Health Service	Applying Functional Genomics to Kidney Disease – APP1098654	NHMRC		\$1,229,316 (2016-2019)
Patsy Yates, Geoff Mitchell, David Currow, Kathy Eagar, Helen Edwards , Glenn Gardner, Lindy Willmott, Ann Bonner , Robyn Clark, Jennifer Tierman	Kidney Health Centre	End of Life Care Centre of Research Excellence	NHMRC	\$515,511	\$2,495,543 (2013-2018)
Ray Wilkinson, Helen Healy, Andrew Kassianos	Kidney Health Service	The functional characterization of primary human proximal tubule epithelial (PTEC)-derived exosomes	Pathology Queensland Study Education and Research Trust Fund – Project grant.	\$34,500	\$34,500 (2016)
Wendy Hoy, Helen Healy, Andrew Mallett, Charles Denaro , Mark Thomas	Kidney Health Service, Internal Medicine and Aged Care	The aQuiRe Study	Sanofi-Genzyme		\$946,554 (2016-2019)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Wendy Hoy, Helen Healy , Luke Connolly, Geoff Mitchell, Kathryn Panaretto, Zoltan Endre, Jeff Coombes, Glenda Gobe, Ann Bonner, Rob Fassett	Kidney Health Centre	Chronic Kidney Disease Centre of Research Excellence	NHMRC	\$500,000	\$2,496,981 (2014-2019)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Almutary H, Bonner A , Douglas C. Symptom burden in advanced stages of chronic kidney disease. <i>J Renal Care</i> . 2016;42(2):73-82.
Journal Article	Almutary H, Douglas C, Bonner A . Multidimensional symptom clusters: An exploratory factor analysis in advanced chronic kidney disease. <i>J Adv Nurs</i> . 2016;72(10):2389-2400.
Journal Article	Brown L, Gardner G, Bonner A . A randomised controlled trial protocol testing a decision support intervention for older patients with advanced kidney disease. <i>J Adv Nurs</i> . 2016;72(5):1191-1202.
Journal Article	Chan S, Francis LP, Kark AL , Bigby KJ, Healy HG and Chern BW. A case of everolimus induced tubular toxicity in non renal carcinoma. <i>Internal Medicine Journal</i> . 2016;46(12):1454-1455.
Journal Article	Chiang M, Tullett K, Lee Y, Idris A, Ding Y, McDonald K, Kassianos A , Leal Rojas I, Jeet V, Lahoud M, Radford K. Differential uptake and cross-presentation of soluble and necrotic cell antigen by human DC subsets. <i>European Journal of Immunology</i> . 2016; 46(2):329-39.
Journal Article	Francis A, Burke J, Francis L, McTaggart S, Mallett A . Polypoid change of the glomerular basement membrane in a child with steroid resistant nephrotic syndrome and ARHGAP24 mutation: a case report. <i>The Open Urology and Nephrology Journal</i> . 2016; 9:88-93.
Journal Article	Dinh TTH, Bonner A , Clark R, Ramsbotham J, Hines S. The effectiveness of health education using the teach-back method on adherence and self-management in chronic disease. <i>JBIC Database Systematic Rev Implementation Reports</i> . 2016;14(1):210-247.
Journal Article	Havas K, Bonner A , Douglas C. Self-management support for people with chronic kidney disease: An integrative review of patient perspectives. <i>J Renal Care</i> . 2016;42(1):7-14.
Journal Article	Mallett A , Flowles LF, McGaughran J , Healy H , Patel C . A multidisciplinary renal genetics clinic improves patient diagnosis. <i>Medical Journal of Australia</i> . 2016; 204(2):58-9.
Journal Article	Ross L, Chong SH, Mason B, Healy H . Development and evaluation of a Scored Sodium Questionnaire (Short Form) for screening sodium intakes. <i>Journal of Renal Nutrition</i> . 2016;26(3):159-167.
Journal Article	Tong A, Tunnicliffe DJ, Lopez-Vargas P, Mallett A , Patel C, Savige J, Campbell K, Patel M, Tchan MC, Alexander SI, Lee V, Craig JC, Fassett R, Rangan GK. Identifying and integrating consumer perspectives in clinical practice guidelines on autosomal dominant polycystic kidney disease. <i>Nephrology</i> . 2016; 21(2):122-32.
Journal Article	Sendall M, McCosker L, Crossley K, Bonner A . 2016. A structured review of Chronic Care Model components supporting transition between healthcare service delivery types for older people with multiple chronic diseases. <i>Hlth Info Management J</i> . 2016; [early online view], DOI: 10.1177/1833358316681687
Journal Article	Wei H, Bonner A , Anderson D. Patient reported adherence to hypertension management: A revalidation study. <i>Euro J Cardiovascular Nurs</i> . 2016;15(2):150-156.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Abel J, Havas K, Stone C, Barnes M, Hetherington J, Douglas C, Bonner A . Two clinical cases to illustrate an integrated nurse practitioner approach to improving the management of people with complex chronic disease comorbidities. Australian Diabetes Society and the Australian Diabetes Educators Association, annual scientific meeting. Melbourne, August 2016
Poster	Abeysekera R , Wang Z, Healy H , Cameron A, Hoy W. Comparison of different definitions of chronic kidney disease (CKD) progression in patients in a metropolitan public renal practice, Queensland, Australia. In: Nephrology 2016;21(S2):211. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia.
Poster	Abeysekera R , Wang Z, Healy H , Cameron A, Hoy W. Factors associated with Chronic Kidney Disease (CKD) progression, by different definitions, in patients in a Queensland Metropolitan public renal practice. In: Nephrology 2016;21(S2):212. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia.
Oral	Almutary H, Douglas C, Bonner A . Explaining how symptoms cluster together in advanced stages of chronic kidney disease. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Austin L , Parker N . Improving the renal nurses' education experience: using an education needs analysis survey. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Barnes M, Stone C, Abel J, Hetherington J, Bonner A , Douglas C, Havas K. Chronic disease nurse practitioners working in a collaborative model: Understanding team dynamics. Australian College of Nurse Practitioners, 11th annual conference. Alice Spring, August 2016
Oral	Berquier I , Bonner A , Healy H , Terry M , Douglas C . Kidney supportive care program: implementing an alternative pathway of care. Australian Disease Management Association, 12th annual conference. Melbourne, October 2016
Poster	Berquier I , Douglas C , Healy H , Bonner A . Translating supportive care into kidney health. Statewide Cardiac, Diabetes and Renal Clinical Networks Combined Forum. Brisbane, June 2016
Oral	Berquier I , Terry M , Taylor B , Douglas C , Healy H . Kidney supportive care program: From concept to implementation. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Invited Speaker	Bonner A . Chronic Disease Comorbidity: Challenging Healthcare Providers to Innovate Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016.
Invited Speaker	Bonner A . Health Literacy and Renal Healthcare – Why does it Matter? European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference., Valencia, Spain, September 2016
Invited Speaker	Bonner A . Options for older patients with chronic kidney disease. European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference. Valencia, Spain, September 2016
Oral	Bonner A , Corones K, Campbell K, Hayes B, Harvie B, Kelly J, Gillespie K, Havas K. Opportunities for technology use for self-management in chronic kidney disease: The Teli-CKD study. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Bonner A , Corones K, Campbell K, Hayes B, Harvie B, Kelly J, Gillespie K, Havas K. Evaluating how technology is used by people with chronic kidney disease. European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference. Valencia, Spain, September 2016
Oral	Bonner A , Douglas C, Stone C, Abel J, Barnes M, Hetherington J, Havas K. Bridging chronic disease siloes of healthcare: A novel integrated nurse-practitioner service. Statewide Cardiac, Diabetes and Renal Clinical Networks Combined Forum. Brisbane, June 2016
Oral	Bonner A , Stone C, Barnes M, Abel J, Havas K, Hetherington J. An innovative nurse practitioner-led health service for people with multiple chronic diseases. 6th Pan Pacific Nursing Conference. Hong Kong, March 2016
Poster	Chambers S, Bonner A , Chhabra S, Healy H , Ratanjee S , Kark A , Yates P, Hoy W. A feasibility study to track the last 12 months of life in chronic kidney disease patients: Baseline characteristics. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Chambers S, Bonner A , Chhabra S, Healy H , Ratanjee S , Kark A , Yates P, Hoy W. A feasibility study to track the last 12 months of life in chronic kidney disease patients: Baseline characteristics. Royal Brisbane and Women's Hospital, 25th annual symposium. Brisbane, September 2016
Poster	Chan S, Francis LP, Kark AL , Bigby KJ, Healy HG, Chern BW. Everolimus induced tubular toxicity in non renal cancer. In: Nephrology 2016;21(S2):259. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia.
Oral	Dheda S, Min H, Van Epps C, Johnson D, Vesey D, Healy H , Hawley C, Fahim M. Inflammation in haemodialysis. In: Nephrology 2016;21(S2):65. Paper presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia. (mini-oral).

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Dinh TTH, Bonner A , Ramsbotham J, Clark R. Training Vietnamese cardiac nurses about heart failure self-management and teach-back: A pilot study. Australasian Cardiovascular Nursing, annual conference. Melbourne, March 2016
Poster	Chan S, Cameron A, Wang Z, Baboolal K, Mallett A, Healy H , Hoy W. Association of body mass index with death and institution of renal replacement therapy in chronic kidney disease patients in CKD.QLD. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Gobe GC, Endre ZH, Coombes JS, Healy HG , Wilkinson R, Tan KS, Cameron A, Hoy WE. Quality biobanking of chronic kidney disease specimens. In: Nephrology 2016;21(S2):208 abstract. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia.
Oral	Havas K, Douglas C, Bonner A . Supporting people with chronic kidney disease to self-manage: What do the patients want? Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Havas K, Douglas C, Bonner A . The missing piece: Self-management support desires of patients with chronic kidney disease European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference. Valencia, Spain, September 2016
Invited speaker	Healy H . Evaluating the implementation of the Kidney Supportive Care Program into a Hospital and Health Service. 3rd Biennial Australasian Implementation Conference 5-6 October 2016 Melbourne Australia
Poster	Healy H, Kassianos A , Law B, Lindner M, Wang X, Beagley K, Wilkinson R. Increased recruitment of human lymphocyte subsets in renal fibrosis and chronic kidney disease. ISN Nexus Symposium – Translational Immunology in Kidney Disease. Berlin, Germany. April 14-17, 2016.
Poster	Healy H , Law B, Wang X, Kassianos A , Wilkinson R. Increased tubulointerstitial recruitment of human natural killer cells in renal fibrosis and chronic kidney disease. In: Journal of the American Society of Nephrology Supplement 2016;27:693A abstract 5178. Poster presented at: Kidney Week American Society of Nephrology; 2016 November 15-20; Chicago, US. (poster SA-P0279).
Poster	Hetherington J, Stone C, Bonner A , Barnes M, Abel J, Douglas C, Havas K. Integrated chronic disease nurse practitioner (ICDNP) model of care: Improving the patient journey. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Hoy WE, Healy HG , Connelly L, Mitchell G, Panaretto K, Endre Z, Coombes JS, Gobe G, Bonner A, Fassett RG, Cameron A. The NHMRC Chronic Kidney Disease Centre of Research Excellence (CKD.CRE) 2015-2019: the first year. In: Nephrology 2016;21(S2):204 abstract. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia
Poster	Hoy WE, Healy HG , Wang Z, Zhang J, Abeysekera R , Cameron A, Tan K. The spectrum of chronic kidney disease in public renal services of Queensland, Australia: Data from the CKD.QLD Registry. In: Journal of the American Society of Nephrology Supplement 2016;27:842A abstract 5178. Poster presented at: Kidney Week American Society of Nephrology; 2016 November 15-20; Chicago, US. (poster SA-P0907).
Poster	Kassianos A , Law B, Lindner M, Wang X, Beagley K, Wilkinson R, Healy H . Increased tubulointerstitial recruitment of human lymphocyte subsets in renal fibrosis and chronic kidney disease. The 16th International Congress of Immunology. Melbourne, Australia. August 21-26, 2016.
Oral	Law B, Kassianos A , Lindner M, Wang X, Beagley K, Wilkinson R, Healy H . Increased tubulointerstitial recruitment of human lymphocyte subsets in renal fibrosis and chronic kidney disease. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Liehr S . A systematic review: a practical application of heel specific interventions for preventing heel pressure injury. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Mallawaarachchi A, Mallett A , McCarthy H, Patel C, Ho G, Holman K, Bennetts B, Alexander SI. Genetic testing provides high diagnostic yield in renal tubular disorders. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	Mallawaarachchi A, Mallett A , McCarthy H, Patel C, Ho G, Holman K, Durkan A, Bennetts B, Alexander SI. Genetic testing in complement mediated kidney disease – benefits and challenges in an adult and paediatric Australian cohort. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Invited Speaker	Mallett A . The Pharmacological Management of ADPKD, KHA-CARI Guidelines Seminar & Symposium. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Invited Speaker	Mallett A . The Genetics of aHUS, APCN Symposium. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	Mallett A . A comprehensive and multidisciplinary renal genetics clinic improves patient diagnosis and is an effective model for genomic mainstreaming
Oral	Mallett A , Mallawaarachchi A, McCarthy H, Ho G, Holman K, Patel C, Bennetts B, Alexander SI. Outcomes of diagnostic testing using an Australian Alpor Syndrome gene panel. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Mallett A , Mallawaarachchi A, McCarthy H, Ho G, Holman K, Patel C, Bennetts B, Alexander SI. Renal gene testing in the spectrum of inherited tubulointerstitial kidney diseases. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	Mallett A , Patel C, Crawford J, Alexander SI, Bennetts B, McCarthy H, Quinlan C, Maier B, Er P, Takasato M, Healy H , Smyth I, Little M, Simons C. Massively parallel sequencing and functional genomics can achieve genetic diagnosis in unresolved cases of genetic renal disease. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	McCarthy H, Mallawaarachchi A, Patel C, Ho G, Holman K, Fletcher J, Mallett A , Bennetts B, Alexander SI. Diagnostic gene panels for nephrotic syndrome allows stratification according to aetiology and thus directs management. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	McCarthy H, Mallawaarachchi A, Patel C, Ho G, Holman K, Fletcher J, Mallett A , Bennetts B, Alexander SI. Diagnostic renal gene panel results reflect a higher prevalence of genetic aetiology in childhood onset renal disease. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	McCarthy H, Patel C, Mallawaarachchi A, Ho G, Holman K, Mallett A , Bennetts B, Alexander SI. Sequencing the genes associated with congenital anomaly of the kidney and urinary tract rarely reveals a genetic aetiology. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	McCarthy H, Patel C, Mallawaarachchi A, Ho G, Holman K, Mallett A , Bennetts B, Durkan A, Mackie F, Kennedy S, Alexander SO. Comparison of phenotype associated with HNF1B mutations in a paediatric vs adult cohort. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Oral	McIntyre D , Havas K, Bonner A . How frequent is frequent? Monitoring for intradialytic hypotension. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	McIntyre D , Havas K, Bonner A . Intradialytic hypotension: Is it all a matter of timing? European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference. Valencia, Spain, September 2016
Oral	McIntyre D , Rice R , Jakeman K , Lorenzen N . Monthly blood/patient reviews: A focused team based approach. European Dialysis and Transplant Nurses Association/European Renal Care Association, 45th international conference. Valencia, Spain, September 2016
Poster	Nguyen N, Bonner A , Douglas C. Kidney knowledge survey: A validation study in Vietnamese language. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Nguyen N, Bonner A , Douglas C. Chronic kidney disease self-Management: A validation study in Vietnamese language. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Rawlings C , Cameron A, Wang Z, Mallett A , Healy H , Hoy W. Timing of renal supportive care decisions in advanced chronic kidney disease: effect on hospitalisations and place of death. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Rawlings C , Cameron A, Wang Z, Mallett A , Healy H , Hoy W. Timing of renal supportive care decisions in advanced chronic kidney disease: effect on hospitalisations and place of death. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Rice R , Jakeman K , Lorenzen N , McIntyre D . Team tactics: A co-ordinated approach to care management. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Rist M , Wang X, Wilkinson R, Kassianos A , Healy H . Human proximal tubule epithelial cell (PTEC) dysfunction under hypoxic conditions. RBWH Healthcare Symposium. Brisbane, Australia. Sept 12-16, 2016.
Oral	Ross L, Chong SH, Mason B, Healy H . A short questionnaire for screening sodium intakes – a first step to effective blood pressure management. Paper presented at: 17th International Congress of Dietetics; 2016 September 7-10 September 2016; Granada, Spain.
Oral	Scuderi C , Healy H , Berquier I , Douglas C . FED-EX-KSCp. Facilitating End of Life Discussions. EXiting invasive care. Pharmacy in the Kidney Supportive Care program. (KSCp). Paper presented at: Society of Hospital Pharmacists of Australia Medicines Management Conference; 2016 November 16-19; Perth, Australia.
Oral	Scuderi C , Jacks M , Owens J , John G , Healy H . Reflections on a new transplant pharmacy service 12 months on. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Taylor B , Donaldson S, Kark A , Munsie S , Hale J , Healy H . Establishment of a public/private partnership conjoint chronic kidney team and endocrine clinic. Paper presented at: 12th Australian Disease Management Association Annual National Conference; 2016 October 20-21; Melbourne, Australia
Poster	Taylor B , Donaldson S, Kark A , Munsie S , Hale J , Healy H . Establishment of a public/private partnership co-joint chronic kidney team and endocrine clinic. Statewide Cardiac, Diabetes and Renal Clinical Networks Combined Forum. Brisbane, June 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Usman M , Hoy WE, Healy HG , Mallett AJ , Kark AL , Cameron A, Wang Z, Abeysekera A . In: Journal of the American Society of Nephrology Supplement 2016;27;832A abstract 5178. Poster presented at: Kidney Week American Society of Nephrology; 2016 November 15-20; Chicago, US. (poster SA-PO866).
Poster	Wang X, Kassianos A , Kildey K , Potriquet J, Lobb R, Cloonan N, Wilkinson R, Healy H. Molecular profiling of exosomes derived from human proximal tubule epithelial cells (PTEC) under normal and diseased conditions. RBWH Healthcare Symposium. Brisbane, Australia. Sept 12-16, 2016.
Oral	Wang X, Kassianos A, Potriquet J, Lobb R, Cloonan N, Wilkinson R, Healy H. miRNA expression within exosomes derived from human proximal tubule epithelial cells (PTEC) under normal and diseased conditions. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Wang Z, Zhang J, Healy H, Tan K, Venuthurupalli S, Cameron A, Hoy W. Characteristics of CKD.Qld patients by index of relative socio-economic disadvantage (IRSD). In: Nephrology 2016; 21(S2):209. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia
Poster	Wang Z, Zhang J, Healy H, Tan K, Venuthurupalli S, Cameron A, Hoy W. Risk factors of starting renal replacement therapy and mortality in CKD.Qld patients. In: Nephrology 2016; 21(S2):209. Poster presented at: 15th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia
Oral	Wembenyui C, Bonner A, Douglas C. Examining patient's knowledge about chronic kidney disease in a Primary Health Care setting. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Poster	Wembenyui C, Bonner A, Douglas C. Gauging the level of chronic kidney disease self-management behaviours of patients in a General Practice. Renal Society of Australasia, 44th annual conference. Gold Coast, June 2016
Oral	Wilkinson R, Wang X, Kassianos A, Kildey K, Potriquet J, Lobb R, Cloonan N, Healy H. Molecular profiling of exosomes derived from human proximal tubule epithelial cells (PTEC) under normal and diseased conditions. Translational Medicine: the Role of the Kidney. Blenheim, NZ. December 2-3, 2016.
Poster	Wilson G, Mallett A, Kark A, Tan K, Abeysekera R, Wang Z, Healy H, Hoy W. The relationship between cancer and acute tubular necrosis in patients with chronic kidney disease. American Society of Nephrology: Kidney Week. Chicago, USA. November 15-20, 2016. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Wilson G, Mallett A, Kark A, Tan K, Cameron A, Wang Z, Healy H, Hoy W. The prevalence and characteristics of acute interstitial nephritis and pyelonephritis in patients with CKD. Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology & Asia-Pacific Congress of Nephrology. Perth, Australia. Sept 17-21, 2016.
Poster	Zhang J, Wang Z, Healy H, Venuthurupalli S, Tan K, Fassett R, Cameron A, Hoy W. Profiles and outcomes of patients with chronic kidney disease in the public renal practice system, Queensland Australia. Nephrology 2016;21(S2):208. Poster presented at: 15 th Asian Pacific Congress of Nephrology & 51st Annual Scientific Meeting Australian and New Zealand Society of Nephrology; 2016 September 17-21; Perth, Australia

Other communications and outputs:

Dr Andrew Mallett - Co-Convenor, Organising Committee and Speaker, 4th Australian Renal Genetics Symposium, Melbourne Australia.

Dr Andrew Mallett – Invited Speaker, 1st AGHA Functional Genomics Workshop, Melbourne Australia.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Kidney Health Service	13	0	37 (6 invited)	32

Neurology – Motor Neurone Disease Research

The Motor Neurone Disease (MND) research team is led by Associate Professor Rob Henderson and Professor Pam McCombe. The team involves neurologists, scientists, University of Qld (UQ), PhD students, a neuropsychologist and research coordinators. The team has links to the University of Qld, University of NSW and the Royal Prince Alfred Hospital and also collaborates with international MND researchers.

MND research includes involvement in clinical pharmaceutical trials, including a current study investigating efficacy of a new compound to treat cramps and spasticity in motor neurone disease. The neurologists have also provided input into upcoming early phase studies for investigational products aimed to treat neuro-inflammatory aspects of Motor Neurone Disease. The research coordinators have been involved in the set-up phase for one of these studies projected to commence mid 2017.

MND participants are recruited via the bi-monthly MND Clinic or via referral from external Neurologists. A regular MND Research Clinic is conducted to allow interested patients and families to meet all the researchers and discuss current research projects prior to deciding whether they wish to participate.

Neuropsychological research is conducted by the team neuropsychologist and a PhD student investigating cognitive and behavioural changes in MND patients. Another project investigates the role of metabolism in MND and has found a proportion of patients experience hypermetabolism. The study has expanded to include collection and analysis of gut biomes and more extensive dietary history.

There remains a lack of reliable diagnostic and prognostic biomarkers for the disease. Several of the research projects aim to find novel biomarkers for the disease. This includes blood collection sent to UQ laboratories for genetic screening / biomarker studies, MRI sequencing via 7T MRI located at UQ and correlation of median and ulnar nerve conduction testing with a device measuring the pinch strength of the patient, to see if the device could be useful clinically.

Research funding from the national Ice Bucket challenge commenced 2016 and is guaranteed over the next 3 years to fund increased research coordinator hours to implement a new national motor neurone disease database system known as SALSA. All new and existing patients participating in research are entered onto the new database. The team is also involved in regular fund raising events throughout the year including a Golf Day and an MND lunch event. Money for the MND research is held within the Royal Brisbane and Women's Hospital Foundation.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Zara Ioannides	PhD, UQ (2015-2018)	Energy metabolism and lipid storage in motor neurone disease (MND)	Rob Henderson
Zhouwei Xu	PhD, UQ (2014 – 2017)	Cognitive dysfunction in motor neurone disease	Pam McCombe, Rob Henderson, Shyuan Ngo, Frederik Steyn, Aven Lee

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Rosemary Argall, Amelia Ceslis	Rob Henderson, Pam McCombe, Gail Robinson (UQ)	Assessment of cognition and behaviour in Motor Neurone Disease in a clinical setting and the impact of education sessions on care giver well-being
Rob Henderson, Pam McCombe	Shyuan Ngo (UQ)	Assessment of biomarkers in Motor Neurone Disease (MND)

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Rob Henderson	John O'Sullivan, Anna Farrell (Speech Therapy)	Botulinum Toxin for Sialorrhoea in Amyotrophic Lateral Sclerosis – Does Ultrasound Guidance and Submandibular Infaction Improve Outcomes?
Rob Henderson, Pam McCombe	Stephen Rose (UQCCR), Alan Coulthard (DMI)	Measuring disease of upper and lower motor neurones in amyotrophic Lateral Sclerosis (ALS)
Rob Henderson (feasibility, protocol review and ethics submission activities)	Pam McCombe	A Phase 1b, Open-Label, Dose-Escalation, Safety and Pharmacokinetic Study of IC14 in Motor Neurone Disease

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Zara Ioannides (UQ), Shyuan Ngo (UQ), Frederik Steyn (UQ)	Rob Henderson, Pam McCombe	Energy metabolism and Lipid storage in motor neurone disease (MND)
Christine Gui (UQ), Gail Robinson (UQ)	Michael Breakspear (UQ), Rob Henderson, Rosemary Argall, Amelia Ceslis	Neurobiology-informed diagnostic toolkit for neurodegenerative diseases
Matthew Kiernan (UNSW)	Rob Henderson, Pam McCombe , Susan Mathers, Dominic Rowe	A Randomised, Cross-over Study to Evaluate Efficacy and Tolerability of FLX-787 in Patients with Motor Neurone Disease
Peter Noakes (UQ)	Rob Henderson	Abnormalities of muscle and neuromuscular junction in motor neurone disease (MND)

Research Awards and Achievements

Recipient	Award	Event
Dr Shyuan Ngo / Dr Frederik Steyn	Jenny and Graham Lang Collaboration Award	Motor Neurone Disease Research Institute of Australia (MNDRIA)

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Total Amount (years)
Ngo, McCombe, Henderson , Steyn	MND Research Group		Wesley Medical Research Clinical Neurology Research Grant	\$350,000 (2016 -
Ngo McCombe, Henderson , Steyn	MND Research Group	Bioenergetic deficit in neurodegeneration: studies in motor neurone disease	NHMRC	\$300,000 (2016 -
Guillemin, Rowe, Blair, Atkin, Lim, Lovejoy, Oytam, Brew, Rodgers, Rogers, McCombe, Henderson , Woodruff, Ngo.	MND Research Group		MNDRIA Cure for MND Research Grant	
Steyn, McCombe, Henderson , Ngo.	MND Research Group		MNDRIA Cunningham Family MND Research Grant	
Bellingham, Coulson, Noakes, Millard, Scott, Ngo , Hilliard, Von Swinderen.	MND Research Group		UQ Major Equipment and Infrastructure Grant	
Ngo S	MND Research Group		Australian Institute of Policy and Science (AIPS) Queensland Young Tall Poppy Award.	

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Total Amount (years)
Ngo S	MND Research Group		The CASS Foundation Postdoctoral Early Career Researcher Travel Grant	
Ngo S	MND Research Group		World Science Festival Queensland Women in STEM Research Prize – People's Choice Award.	
Ngo S	MND Research Group		World Science Festival Queensland Women in STEM Research Prize – Jury Award	

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Fogarty, M.J., Klenowski, P.M., Lee, J.D., Driberg-Thompson, J.R., Bartlett, S.E., Ngo, S.T. , Hilliard, M.A., Bellingham, M.C., and Noakes, P.G. 2016. Cortical synaptic and dendritic spine abnormalities in a presymptomatic TDP-43 model of amyotrophic lateral sclerosis. <i>Scientific Reports</i> . 6:37968.
Journal Article	Li, R., Steyn, F.J. , Stout, M.B., Lee, K., Cully, T.R., Calderon, J.C., and Ngo, S.T. 2016. Development of a high-throughput method for real-time assessment of cellular metabolism in intact long skeletal muscle fibre bundles. <i>The Journal of Physiology</i> . 594(24):7197-7213.
Journal Article	Carrasco-Pozo, C., Tan, K-N., Reyes-Fairias, M., de la Jara, N., Ngo, S.T. , Garcia, D., Llanos, P., and Borges, K. 2016. The deleterious effect of cholesterol and protection by quercetin on mitochondrial bioenergetics of pancreatic β -cells, glycemic control and inflammation: in vitro and in vivo studies. <i>Redox Biology</i> . 26 (9): 229-243.
Journal Article	Tefera, T., Wong, Y., Ngo, S.T. , Thomas, N., McDonald, T., and Borges, K. 2016. Triheptanoin Protects Motor Neurons and Delays the Onset of Motor Symptoms in a Mouse Model of Amyotrophic Lateral Sclerosis. <i>Plos One</i> . 11 (8): e0161816.
Journal Article	Ioannides, Z.A. Ngo, S.T., Henderson, R.D. , McCombe, P.A. , and Steyn, F.J. 2016. Altered metabolic homeostasis in Amyotrophic Lateral Sclerosis: Mechanisms of energy imbalance and contribution to disease progression. <i>Neurodegenerative Diseases</i> . 16 (5-6):382-397.
Journal Article	Tuong ZK, Fitzsimmons R, Wang SM, Oh TG, Lau P, Steyn FJ , Thomas G, Muscat GE. Transgenic Adipose-specific Expression of the Nuclear Receptor RORalpha Drives a Striking Shift in Fat Distribution and Impairs Glycemic Control. <i>EBioMedicine</i> . 2016;11:101-117.
Journal Article	Tan HY, Steyn FJ , Huang L, Cowley M, Veldhuis JD, Chen C. Hyperphagia in male melanocortin 4 receptor deficient mice promotes growth independently of growth hormone. <i>J Physiol</i> . 2016;594(24):7309-7326.
Journal Article	Steyn FJ , Tolle V, Chen C, Epelbaum J. Neuroendocrine Regulation of Growth Hormone Secretion. <i>Compr Physiol</i> . 2016;6(2): 687-735
Journal Article	Nabizadeh JA, Manthey HD, Steyn FJ , Chen W, Widiapradja A, Md Akhir FN, Boyle GM, Taylor SM, Woodruff TM, Rolfe BE. The Complement C3a Receptor Contributes to Melanoma Tumorigenesis by Inhibiting Neutrophil and CD4+ T Cell Responses. <i>J Immunol</i> . 2016;196(11):4783-4792.
Journal Article	Li R, Steyn FJ , Stout MB, Lee K, Cully TR, Calderon JC, Ngo ST. Development of a high-throughput method for real-time assessment of cellular metabolism in intact long skeletal muscle fibre bundles. <i>J Physiol</i> . 2016;594(24):7197-7213.
Journal Article	Ioannides ZA, Ngo ST, Henderson RD , McCombe PA , #Steyn FJ. Altered Metabolic Homeostasis in Amyotrophic Lateral Sclerosis: Mechanisms of Energy Imbalance and Contribution to Disease Progression. <i>Neurodegener Dis</i> . 2016;16(5-6):382-397.
Journal Article	Czieselsky K, Prescott M, Porteous R, Campos P, Clarkson J, Steyn FJ , Campbell RE, Herbison AE. Pulse and Surge Profiles of Luteinizing Hormone Secretion in the Mouse. <i>Endocrinology</i> . 2016;157(12):4794-4802.41.
Journal Article	Steyn, FJ. Growth Hormone Releasing Hormone. In <i>Encyclopedia of Signaling Molecules</i> , 2nd edition. Springer. 2016
Journal Article	Aoun SM, Breen LJ, Oliver D, Henderson RD , Edis R, O'Connor M, Howting D, Harris R, Birks C. Family carers' experiences of receiving the news of a diagnosis of Motor Neurone Disease: A national survey. <i>J Neurol Sci</i> . doi: 10.1016/j.jns.2016.11.043.
Journal Article	Xu Z, Henderson RD , David M, McCombe PA . Neurofilaments as Biomarkers for Amyotrophic Lateral Sclerosis: A Systematic Review and Meta-Analysis. <i>PLoS One</i> . 2016 Oct 12;11(10):e0164625.
Journal Article	Talman P, Duong T, Vucic S, Mathers S, Venkatesh S, Henderson R , Rowe D, Schultz D, Edis R, Needham M, Macdonnell R, McCombe P, Birks C, Kiernan M. Identification and outcomes of clinical phenotypes in amyotrophic lateral sclerosis/motor neuron disease: Australian National Motor Neuron Disease observational cohort. <i>BMJ Open</i> . 2016 30;6(9):e012054.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Henderson RD, McCombe PA. Assessment of Motor Units in Neuromuscular Disease. Neurotherapeutics. 2016 Sep 6. Review. doi: 10.1007/s13311-016-0473-z.
Journal Article	O'Callaghan C, Henderson R , Tay G, Masel P. Adult onset Pompe's disease presenting with insidious type 2 respiratory failure. Respirology 2016 Aug 3;4(5):e00178.
Journal Article	Geevasinga N, Menon P, Scherman DB, Simon N, Yiannikas C, Henderson RD , Kiernan MC, Vucic S. Diagnostic criteria in amyotrophic lateral sclerosis: A multicenter prospective study. Neurology. 2016;87(7):684-90.
Journal Article	McNamara JF, Paterson DL, Allworth A, Presneill J, O'Connell P, Henderson RD. Re-activation of varicella zoster virus associated with anterior spinal cord stroke in pregnancy. Infect Dis. 2016 Sep;48(9):705-7.
Journal Article	Aoun S, Breen LJ, Howting D, Edis R, Oliver D, Henderson R , O'Connor M, Harris R, Birks C. Receiving the news of a diagnosis of Motor Neurone Disease: What does it take to make it better? Amyotroph Lateral Scler Frontotemporal Degener 2016;17:168-178.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Ioannides Z. Metabolic dynamics in Motor Neurone Disease: Assessment of energy metabolism in MND patients reveals breakdown in energy supply and demand. Australian and New Zealand Association of Neurologists (ANZAN) ASM, Perth, 2016
Invited Speaker	Ngo S. MND Association of Western Australia Meet the Experts Conference. Perth, Australia
Guest Speaker	Ngo S Motor Neurone Disease, Far north Queensland Support Group Meeting: Multiple System Atrophy & Progressive Supranuclear Palsy
Invited Speaker	Ngo S. International Conference on Physiological Sciences (ICPS). Beijing, China
Invited Speaker	Steyn F. Australian and New Zealand Association of Neurologists (ANZAN) ASM, Perth: Re-evaluation of hypermetabolism and the assessment of endogenous adipose as a modifier of ALS progression
Invited Speaker	Ngo S, Steyn F. 27th International ALS/MND Symposium. Dublin, Ireland: Impaired glucose clearance as a potential contributing factor for hypermetabolism in ALS patients
Invited Speaker	Ngo S, Steyn F. 27th International ALS/MND Symposium. Dublin, Ireland: Impairment of growth hormone signalling significantly modifies the course of disease in a mouse model of ALS.
Invited Speaker	Steyn F. Joint Scientific Meeting of The Australian and New Zealand Obesity Society (ANZOS), Brisbane: Use of a potent calorie restriction mimetic to selectively recover POMC activity, thereby reversing dietary induced weight gain
Invited Speaker	Steyn F. Sporadic ALS Australian Systems Genomics Consortium (SALSA-SGC) Training Symposium: Assessment of metabolic health in neurodegeneration: studies in motor neurone disease

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	20	1	9	0

Neurology – Movement Disorder Group

The Movement Disorders Group research under A/Prof John O’Sullivan and Dr Robert Adam is currently focussed on Parkinson’s disease and related diseases, Huntington’s disease, and Friedreich’s Ataxia through our dedicated clinics. We have particular research interests in the non-motor aspects of these diseases that have significant impact on patient’s quality of life including anxiety, depression, cognitive changes and sleep disturbances. We are focussed on improved understanding these features to develop better treatments for these diseases.

We have strengthened our longstanding collaborations with the University of Queensland Centre for Clinical Research (UQCCR) through the Neuro Mental Health Group led by Dr Nadeeka Dissanayaka, Honorary Research Fellow in the Department of Neurology RBWH, and past RBWH Foundation Scholarship holder and with psychiatry Professor Gerard Byrne, Director of Geriatric Psychiatry RBWH, and Head of Psychiatry in School of Medicine University of Queensland, and Dr Rodney Marsh, visiting psychiatrist RBWH.

We have also strengthened our collaborations with built on past and through the University of Queensland (UQ) School of Biomedical Neuroinflammation group led by Associate Professor Trent Woodruff, particularly in relation to studies of neuroinflammation in Huntington’s disease and more recently Parkinson’s disease with collaborative research as part of an ongoing NHMRC funded grant *“Complement activation as a therapeutic target and clinical biomarker for Parkinson’s disease.”* Researching common threads between inflammation in Huntington’s and motor neurone diseases has provided the impetus for further collaborative research relating to metabolism and sleep between our group and the motor neurone research group at RBWH led by A/Prof Robert Henderson and Prof Pam McCombe, and with Dr Alex Ritchie from the Department of Thoracic and Sleep Medicine, RBWH.

We have established collaborative links with Wesley Medical Research (WMR) through Dr Susanna Mantovani, the WMR Thorsen Foundation post-doctoral research fellow and Honorary Research Fellow in the Department of Neurology RBWH. Dr Mantovani is studying aspects of sleep in Huntington’s disease and Friedreich’s Ataxia with patients from our clinics. Links between our group and collaborators at UQ led to awards of three successful grants through Wesley Medical Research.

We continue to collaborate with the Friedreich’s Ataxia Clinic in Melbourne and are increasing our capability to conduct clinical trials and related research on Friedreich’s Ataxia patients at both centres. This resulted in a successful NHMRC grant studying the drug resveratrol in Friedreich’s Ataxia across both sites.

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Nadeeka Dissanayaka	Honorary Research Fellow	Parkinson's disease mental health	UQ (2003-present)
Susanna Mantovani	Honorary Research Fellow	Sleep in neurodegenerative disease	UQ (2012-present)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
John O'Sullivan	Robert Adam, Andre Troiano, Amy Jones, Alan Coulthard, Stephen Rose, Kim Forrest	Combined imaging in the diagnosis of early Corticobasal Syndrome
Susanna Mantovani, John O'Sullivan	Simon Smith, Simon McBride, Alex Ritchie	Analysis of sleep in Friedreich's Ataxia and Huntington's disease patients

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Ji Hyun Yang, Nadeeka Dissanayaka	John O'Sullivan, Gerard Byrne	Mild Cognitive Impairment in Parkinson's disease: fMRI study
Anand Padmassini, Nadeeka Dissanayaka (UQ)	John O'Sullivan, Gerard Byrne, Rodney Marsh, Nancy Pachana	Cognitive Behaviour Therapy for Anxiety in Parkinson's disease: Waitlist controlled trial
Trent Woodruff(UQ), Richard Gordon (UQ)	John O'Sullivan	Complement activation as a therapeutic target and clinical biomarker for Parkinson's disease

Research Grants - Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Trent Woodruff, John O'Sullivan, Anumantha Kanthasamy	Dept of Neurology	Complement activation as a therapeutic target and clinical biomarker for Parkinson's disease	NHMRC	Funding for RBWH in 2017	\$495,738
Martin Delatycki, John O'Sullivan, Paul Lockhart, Eppie Yiu, George Wilmot	Dept of Neurology	A randomised placebo-controlled crossover trial of micronised resveratrol as a treatment for Friedreich's ataxia	NHMRC	Funding for RBWH in 2017	\$556,287 (2016-2018)
Nadeeka Dissanayaka, John O'Sullivan, Gerard Byrne, Rodney Marsh, Nancy Pachana	Dept of Neurology Dept of Psychiatry	Cognitive behaviour therapy for anxiety in Parkinson's disease: Outcomes for patients and caregivers	RBWH Foundation	\$44,000	\$44,000
John O'Sullivan, Susanna Mantovani, Robert Adam, Robert Henderson, Pam McCombe, Alex Ritchie	Dept of Neurology Dept of Thoracic and Sleep Medicine	Sleep and circadian patterns in Motor neurone disease (MND) and Parkinson's disease (PD)	Wesley Medical Research	Funding from 2017	\$747,919 (2016-2019)
Jane Nikles, John O'Sullivan, Geoff Mitchell, S Mantovani, A Ritchie, Simon Smith, James McGree, Hugh Senior	Dept of Neurology Dept of Thoracic and Sleep Medicine	Using N-of-1 tests to identify responders to melatonin for sleep disturbance in Parkinson's Disease	Wesley Medical Research	Funding from 2017	\$244,026 (2016-2019)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Sandra Brauer, B Robyn Lamont, Jane Nielson	Dept of Neurology	A physiotherapy exercise program with a self-management approach to improve physical activity in people with mild-moderate Parkinson's disease: A RCT	Wesley Medical Research	Funding from 2017	\$247,922

2016 Research Publications

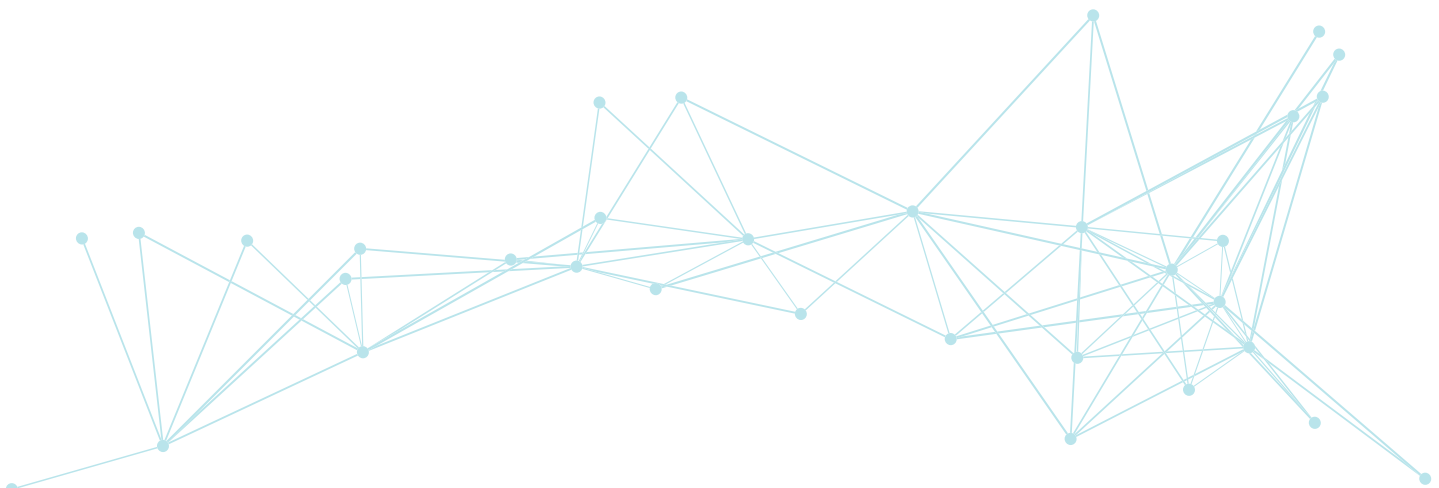
Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Zhang S, Dissanayaka NN, Dawson A, O'Sullivan, JD, Mosley P , Hall W & Carter A. Management of Impulse Control Disorders in Parkinson's Disease Int Psychogeriatr. 2016;10:1597-614
Journal Article	Dissanayaka NN, Idu Jion F, Pachana NA, O'Sullivan JD, Marsh R, Byrne GJ , Harnett P. Mindfulness for Motor and Nonmotor Dysfunctions in Parkinson's Disease. Parkinsons Dis. 2016;2016:7109052.
Journal Article	Dissanayaka NN, O'Sullivan JD, Pachana NA, Marsh R , Silburn PA, White EX, Torbey E, Mellick GD, Copland DA, Byrne GJ. Disease-specific anxiety symptomatology in Parkinson's disease. Int Psychogeriatr. 2016 Jul;28(7):1153-63
Journal Article	Yin YWK, Chang FCF, Mahant N, Fung VSC, Tsui D, Aldaajani Z, Adam R , Hely M. Antecollis associated with Parkinson's disease improved following apomorphine therapy Clinical Neurophysiology , 2016; 127 :e10 - e11

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Dissanayaka NN, Pachana NA, O'Sullivan JD, Marsh R , Silburn PA, White EX, Torbey E, Pye E, Mitchell LK, Copland DA Byrne GJ , Improving diagnosis and treatment of anxiety in Parkinson's disease: IDAT-PD Study. Australian New Zealand Association of Neurologists Annual Scientific Meeting, Perth May 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	4	0	1	0



Neurology – Stroke

The RBWH Stroke team has continued to take a leadership role for Queensland in participating in international multicentre stroke research. Our team is involved in emergency trials assessing treatments that may reverse the effects of a stroke before permanent damage is done and trials of treatments that may prevent second or subsequent strokes.

We have also continued to contribute to the facilitation of recruitment and conduct of numerous investigator-led and university-sponsored research projects in 2016. This included studies assessing acute triage and treatment of stroke patients (T3), investigation of post-discharge support for stroke patients (MiStrEnGTH) and a study assessing better access for rehabilitation for stroke patients (BEEPRS). These studies involve cross-divisional cooperation and we are glad to be able to facilitate these studies.

Our group was also successful in obtaining RBWH and RBWH Foundation funding to further assess the role of EEG in the identification of stroke and stroke subtypes in the pre-hospital setting, which will be the subject of ongoing study in 2017 and beyond.

Our thanks to the RBWH Foundation for their ongoing support of research at RBWH and within the Stroke team, and for their ongoing organisation and support of the fundraising activities that help finance our research program, especially the Master Stroke Business Luncheon.



Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Emma Schleiger	PhD (2012-2016)	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke	Simon Finnigan, Andrew Wong

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Andrew Wong	Geoffrey Donnan (The Florey Institute of Neuroscience and Mental Health) Stephen Davis (Royal Melbourne Hospital)	A randomised, multicentre, double blinded, placebo controlled phase 3 trial in ischaemic stroke patients with significant penumbral mismatch at 4.5 – 9 hours post onset of stroke or after 'wake up' stroke comparing intravenous tPA with placebo
Andrew Wong	Mark Parsons (John Hunter Hospital)	A multicentre, prospective, randomised open-label blinded endpoint phase III study in stroke thrombolysis patients to compare tenecteplase and alteplase for an outcome of less disability at three months
Andrew Wong	Bruce Campbell (Royal Melbourne Hospital) Peter Mitchell (Royal Melbourne Hospital)	A randomized controlled trial of tenecteplase versus alteplase before intra-arterial reperfusion therapy within 4.5 hours of stroke onset utilizing dual target imaging selection
Andrew Wong	Han-Christoph Diener (Germany)	A multicentre, randomized, double-blind, evaluation in secondary stroke prevention comparing the efficacy and safety of the oral thrombin inhibitor dabigatran etexilate versus acetylsalicylic acid in patients with embolic stroke of undetermined source
Andrew Wong	Robert Hart (Canada)	A multicentre, randomized, double-blind, double-dummy, active-comparator, event-driven, superiority phase III study of secondary prevention of stroke and prevention of systemic embolism in patients with a recent embolic stroke of undetermined source, comparing rivaroxaban with aspirin
Andrew Wong	C. de Bodinat (France)	An international, multi-centre, randomized, double-blind placebo-controlled phase II study, assessing the efficacy and safety of S44819 versus placebo in ischemic stroke recovery
Andrew Wong	Sandy Middleton (St Vincent's and Mater Health Sydney; Australian Catholic University)	T3 Trial: triage, treatment, and transfer of patients with stroke in the emergency department

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Emma Schleiger (UQ)	Andrew Wong (Stroke Unit)	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke
Gail Robinson (UQ)	Andrew Wong (Stroke Unit)	Cognitive functions and neural correlates
David Copland (UQ)	Andrew Wong (Stroke Unit)	Predicting and promoting sub-acute aphasia recovery
Petrea Cornwell (Griffith University)	Andrew Wong (Stroke Unit)	Improving the recovery outcomes for people with mild stroke: enhancing and guiding transition home

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Dr Andrew Wong, Dr Simon Finnigan, Wayne Loudon, Dr Stephen Read, Prof Vivienne Tippett	Stroke	Improving pre-hospital screening for stroke treatment eligibility: The value of EEG brain monitoring	RBWH and RBWH Foundation	\$39 840	\$39 840 (2017)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Cadilhac, D. A., Kim, J., Lannin, N. A., Levi, C. R., Dewey, H. M., Hill, K., . Wong,A. . Grimley, R. (2016). Better outcomes for hospitalized patients with TIA when in stroke units An observational study. <i>Neurology</i> , 86(22), 2042-2048.
Journal Article	Fanning, J. P., Wesley, A. J., Walters, D. L., Eeles, E. M., Barnett, A. G., Platts, D. G., . Wong,A. . Fraser, J. F. (2016). Neurological Injury in Intermediate-Risk Transcatheter Aortic Valve Implantation. <i>J Am Heart Assoc</i> , 5(11). doi:10.1161/JAHA.116.004203
Journal Article	Finnigan, S., Wong, A., & Read, S. (2016). Defining abnormal slow EEG activity in acute ischaemic stroke: Delta/alpha ratio as an optimal QEEG index. <i>Clinical Neurophysiology</i> , 127(2), 1452-1459.
Journal Article	Schleiger, E., Wong, A., Read, S., Coulthard, A., & Finnigan, S. (2016). Improved cerebral pathophysiology immediately following thrombectomy in acute ischaemic stroke: Monitoring via quantitative EEG. <i>Clin Neurophysiol</i> , 127(8), 2832-2833. doi:10.1016/j.clinph.2016.06.001
Journal Article	Schleiger, E., Wong, A., Read, S., Coulthard, A., & Finnigan, S. (2016). Resolution of cerebral pathophysiology immediately following thrombectomy in acute ischaemic stroke: Monitoring via quantitative EEG. <i>Clinical Neurophysiology</i> .

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral / Invited	Wong,A Endovascular Clot Retrieval in Qld, Asia Pacific Stroke Conference/Stroke Society of Australasia ASM, Brisbane July 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Stroke	5	0	1	0

Nuclear Medicine / Specialised PET Services QLD

The Department of Nuclear Medicine at the Royal Brisbane and Women's Hospital (RBWH) is one of the largest in Australia. It provides a referral, diagnostic and therapeutic nuclear medicine service with four SPECT/CT gamma cameras, one solid state cardiac camera, BMD dual energy X-ray absorptiometry (DEXA) and a pQCT scanner. Research interests in nuclear medicine include image reconstruction methodologies, application of gating and bone mineral densitometry in various disease states.

The department hosts the state-wide Specialised PET Services Queensland, which operates two state-of-the-art PET/CT scanners and a TGA accredited radio laboratory operating a cyclotron. It offers research facilities to a wide variety of investigators. In addition to conventional tracers such as fluorodeoxyglucose (18FDG), the Service also conducts research using 18FDOPA, 18FMISO and 68Ga-DOTATATE and 68Ga-PSMA. 68Ga-Pentixafor is currently being used in animal studies, allowing for the study and research of a greater range of diseases. There is also ongoing research interest in image reconstruction algorithms, respiratory gating and image analysis techniques.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Areej Alosaimi	Masters, QUT (2016)	Beyond NEMA for Modern SPECT	Dr Jye Smith
Shaun Patford	Masters, QUT (2016)	Development of radiation doped resins for imaging phantoms	Dr Jye Smith
Ashley Gillman	PhD, UQ (2015-current)	Motion correction of PET for clinical and research imaging	Dr Nicholas Dowson, Prof Stephen Rose, Dr Jye Smith

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Dr Jye Smith	Adjunct lecturer	School of Medicine	UQ (2009-current)

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Total Amount (years)
Nick Weber, A/Prof Glen Kennedy, Dr Kirk Morris, A/Prof Paul Thomas.	Department of Nuclear Medicine / Herston Imaging Research Facility (HIRF)	Pilot Study of 68 GA-Pentixafor PET imaging in multiple myeloma.	Metro North HIRF Seed Funding	(2016)
A/Prof Liz Kenny, Charles Lin, Ben Chua, Brett Hughes, A/Prof Paul Thomas, Dr Manoj Bhatt, Melissa Latter , Sarju Vasani, Dr Martin Batstone, Dr Julie Agnew, Dr Andrew Groundwater, Touraj Taheri, Nicholas Dowson, Stephen Rose, Elizabeth Ahern, Andreas Moller, Rajiv Khama, Chamindie Punyadeera, Sandro Porceddu.	Department of Nuclear Medicine / HIRF	CXCR4 PET for nodal staging of resectable mucosal head and neck Squamous cell carcinoma (HNSCC).	Metro North HIRF Seed Funding	(2016)
A/Prof Liz Kenny, Dr Charles Lin, Dr Ben Chua, Brett Hughes, A/Prof Paul Thomas, Dr Manoj Bhatt, Melissa Latter , Sarju Vasani, Dr Martin Batstone, Dr Julie Agnew, Dr Andrew Groundwater, Touraj Taheri, Nicholas Dowson, Stephen Rose, Elizabeth Ahern, Andreas Moller, Rajiv Khama, Chamindie Punyadeera, Sandro Porceddu.	Department of Nuclear Medicine / HIRF	Hypoxia imparts radiation resistance and when identified, may lend itself to alteration of standard care to improve cure.	Metro North HIRF Seed Funding	(2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Total Amount (years)
A/Prof Liz Kenny, Dr Charles Lin, Dr Ben Chua, Dr Brett Hughes, A/Prof Paul Thomas, Dr Manoj Bhatt, Melissa Latter , Sarju Vasani, Dr Martin Batstone, Dr Julie Agnew, Dr Andrew Groundwater, Touraj Taheri, Nicholas Dowson, Stephen Rose, Elizabeth Ahern, Andreas Moller, Rajiv Khama, Chamindie Punyadeera, Sandro Porceddu.	Department of Nuclear Medicine / HIRF	Added value of PET/MR compared with PET/CT in head and neck squamous cell cancer staging.	Metro North HIRF Seed Funding	(2016)
Prof. Sunil Lakhani, Prof. Owen Ung, Stephen Rose, A/Prof Paul Thomas , Kowis Murugappan, Ben Green, Liz Kenny, Po Inglis, Lindy Jeffrey, Melissa Brown, Georgia Chenevix-Trench, Kum Kum Khanna, Greg Monteith, Marina Reeves, Peter simpson, Amy McCart Reed, Jodi Saunus, Fares Al-Ejeh, Rik Thompson.	Department of Nuclear Medicine / HIRF	Improving the precision of clinical staging of the axilla.	Metro North HIRF Seed Funding	(2016)
Prof. Sunil Lakhani, Prof Owen Ung, Stephen Rose, A/Prof Paul Thomas , Kowis Murugappan, Ben Green, Liz Kenny, Po Inglis, Lindy Jeffrey, Melissa Brown, Georgia Chenevix-Trench, Kum Kum Khanna, Greg Monteith, Marina Reeves, Peter simpson, Amy McCart Reed, Jodi Saunus, Fares Al-Ejeh, Rik Thompson.	Department of Nuclear Medicine / HIRF	Development of theranostic approach to treatment of brain metastases.	Metro North HIRF Seed Funding	(2016)
Ben Chua, Bryan Day, Stephen Rose, A/Prof Paul Thomas , Rosalind Jeffrey, Yi Chieh Lim, Po Inglis, Zarnie Lwin, Jacqui Keller.	Department of Nuclear Medicine / HIRF	Hypoxia imaging in glioma with PET/MR.	Metro North HIRF Seed Funding	(2016)
David Fielding, A/Prof Paul Thomas , Jason Dowling, Nicholas Dowson, Ashley Gillman, Stephen Rose	Department of Nuclear Medicine / HIRF	Improving the quality of PET imaging of pulmonary nodules and lymph nodes to facilitate invasive and non-invasive assessment.	Metro North HIRF Seed Funding	(2016)
Matthew Burge Melissa Eastgate, David Wyld, A/Prof Paul Thomas, Stephen Rose, Andrew Stevenson	Department of Nuclear Medicine / HIRF	A pilot study of CXCR-4 PET scanning in operable rectal cancer.	Metro North HIRF Seed Funding	(2016)
Matthew Burge, A/Prof Paul Thomas , David Wyld, Nick O'Rourke, Stephen Rose.	Department of Nuclear Medicine / HIRF	Chemokine receptor with a novel PET tracer in pancreatic cancer.		
McGavin, Suzanne	Department of Nuclear Medicine	"Improved model of care for patients undergoing lymphoscintigraphy studies".	AHPOQ	\$53,070.00 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Bhardwaj H, Stephens M, Bhatt, M and Thomas, P. Prostate-Specific Membrane Antigen PET/CT Findings for Hepatic Hemangioma. <i>Clinical Nuclear Medicine</i> . 2016;41:968-969. PMID: 27749413 DOI: 10.1097/RLU.0000000000001384
Journal Article	Stephens M, Kim D, Shepherd B, Gustafson S, Thomas P. Intense uptake in amyloidosis of the seminal vesicles on 68Ga-PSMA PET mimicking locally advanced prostate cancer. <i>Clinical Nuclear Medicine</i> 2017;42:147-8 doi: 10.1097/RLU.0000000000001460 PMID: 27879490
Journal Article	Dowson N, Baker C, Thomas P, Smith J, Puttick S, Bell C, Rodell A, Aanerud J, Salvado O, Rose S. Federated optimisation of kinetic analysis problems. <i>Medical Image Analysis</i> . 2017;35:116-132
Journal Article	Rhee H, Blazak J, Ming Tham C, Lim Ng K, Shepherd B, Lawson M, Preston J, Vela I, Thomas P and Wood S. Pilot study: use of gallium-68 PSMA PET for detection of metastatic lesions in patients with renal tumour. <i>EJNMMI Research</i> 2016;6:76-81 DOI 10.1186/s13350-016-0231-6
Journal Article	Rhee H, Lim Ng K, Tse B, Chun Yeh M, Russell P, Nelson C, Samaratinga H, Thomas P, Vela I, Gobe G, Wood S. Using Prostate Specific Membrane Antigen (PSMA) Expression in Clear Cell Renal Cell Carcinoma For Imaging Advanced Disease Pathology 2016;48:613-6 doi: 10.1016/j.pathol.2016.05.01

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Rhee H, Thomas P , Shepherd B, Gustafson S, Vela I, Russell PJ, Nelson C, Chung E, Wood G, Malone G, Wood S, Heathcote P. Prostate Specific Membrane Antigen Positron Emission Tomography May Improve the Diagnostic Accuracy of Multiparametric Magnetic Resonance Imaging in Localized Prostate Cancer. The Journal of Urology 2016;196:1261-7 doi: 10.1016/j.juro.2016.02.3000
Journal Article	Huang YT, Fong W, Thomas P . Rectal Carcinoma on 68Ga-PSMA PET/CT* by Clinical Nuclear Medicine. 2016;41:e167-e168 DOI: 10.1097/RLU.0000000000001072
Journal Article	Gray S, Stephens M, Lee K, Thomas P . Ga68 DOTATATE avid hepatic, vertebral body and rib hemangiomas on PET/CT mimicking neuroendocrine tumour metastases.
Journal Article	Hafeez, Bhatt M . Clinical profile and treatment outcomes of advanced neuroendocrine tumours in rural and regional patients: a retrospective study from a regional cancer centre in North Queensland, Australia." Internal Medicine Journal November 2016.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Rhee H, Thomas P , Shepherd B, Greenslade S, Vela I, Russell PJ, Nelson C, Chung E, Wood G, Malone G, Wood S, Heathcote P. PSMA PET improves diagnostic accuracy of mpMRI in localised prostate cancer as confirmed by whole mount histopathology: implications for selection and assessment for active surveillance and focal therapy. Abstract published in European Urology Supplements, Volume 15, Issue 3, March 2016, Pages e568, e568a 10.1016/S1569-9056(16)60570-5
Poster	Chua B, Jeffree L, Thomas P, Goodman S and Lwin Z. Diagnostic performance of 18-fluorodeoxyglucose positron emission tomography (FDG-PET) in evaluation of glioma. Society of Neuro-oncology Arizona, USA 2016
Poster	Dickie G, Priyalal K, and Thomas P . Impact of PET Ga-68 PSMA on planning for radical radiotherapy treatment of prostate cancer Journal of Medical Imaging and Radiation Oncology (2016) 60 (Suppl. S1), 159
Invited	Thomas P . Prostate cancer theranostics. Brisbane Cancer Conference 2016
Invited	Thomas P . PSMA PET trials in prostate cancer and renal cell carcinoma. Therapeutic Radiation Oncology Group Annual Scientific Meeting, Brisbane 2016
Oral	Latter M . Automated production and quality control assessment of Lu-177 radiopharmaceuticals towards clinical targeted therapy. Australian and New Zealand Society of Nuclear Medicine Annual Scientific Meeting, Rotorua April 2016
Oral	Smith J . Modality Specific Image Quality - parameters, measurements and variables, PET-MR. Australasian College of Physical Scientists & Engineers in Medicine (ACPSEM) 2016.
Poster	Latter M . Robust radiopharmaceutical production, proven quality and high activity - how to have it all. Theranostics World Congress, Melbourne November 2016.
Oral	Smith J . Dosimetry in Practice Lu-177 DOTA-Octreotate Therapy. ANZSNM ASM Rotorua Physics Special Interest Group 2016.
Poster	Scott D, Latter MJ, Lummis S, Tapper S . Robust radiopharmaceutical production, proven quality and high activity - how to have it all. 4th Theranostics World Congress, 2016 Melbourne Australia
Poster	Bartlett M, Ergenekon A, Latter MJ, Lummis S, Maas S, Maguire G, Scott S, Tai C, Tapper S . Radiochemical Aspects of Ga-68 Radiopharmaceuticals: Experience from a Clinical PET Service. 3rd Annual CAI Symposium 2016 Brisbane Australia
Oral	Taylor S , RBWH Radiochemistry Capability: Enabling Imaging Research, HIRF Oncology Symposium, Aug 2016.
Oral	Gray S, Bhatt M, Wyld D, Burge M, Nocher S, Goodman S, Joshi A . Unusual cases of neuroendocrine tumour at the Royal Brisbane & Women's Hospital". Theranostics World Congress 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
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Palliative and Supportive Care

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Carol Douglas	Alison Mudge	Identifying Patients at End of Life- Point Prevalence Study Analysis

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Carol Douglas , Imogen Mitchell, Jennifer Weil (St.Vincent's, Melbourne), Michelle Levinson (Cabrini), Christine Drummond (Royal Adelaide), Matt Anstey (Sir Charles Gairdner), Jeanette Lacey (John Hunter), Jo Slee (Royal Melbourne)	Safety and Quality Unit- Leads Daniel Prentice and Alison Love	Understanding End Of Life In Acute Hospitals in Australia

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
	C. Douglas , M.Clarke, S.Alexander and M.Khatun. A tertiary hospital audit of opioids and sedatives administered in the last 24h of life. Int Med J Mar 2016; Vol 46 ,issue 3:325-331



Pharmacy

About this service:

The pharmacy Department at RBWH works collaboratively with medical, nursing and allied health colleagues to provide safe, effective, economic and high quality evidence based medication management to patients at RBWH and as part of the wider hospital and health service. A clinical and support service is provided to all patients of RBWH 7 days a week. Research and the continual evaluation of the pharmacy service and wider health care service is a corner stone of the department's strategy to drive continual quality improvement in medicines management. Participation in research is expected and supported by all senior staff and junior staff are encouraged and supported to initiate quality improvement activities and develop research skills.

Highlights of 2016:

Research has focussed on evaluation of pharmacy practice (evaluation of the impact of pharmacist input to medical ward rounds on quality use of medicines and medicine use in palliative care, outpatient antibiotic therapy and pharmacist prescribing in surgical pre-assessment clinics and development of advanced practitioners) pharmacokinetics and pharmacometrics (in particular anticoagulants and antimicrobial therapy) and drug use in maternity, neonatology and paediatrics.

The department facilitates and chairs a monthly research collaborative meeting, between all pharmacy departments in Metro North and representatives from the University of Queensland and Queensland University of Technology. This is to encourage the pitching of research ideas at all levels, and promoted as a forum where novice and experienced researchers alike can gain advice and academic support from experts in their area of potential research.

Two research conjoint positions have been established with School of Pharmacy University of Queensland (SOP UQ) (2 x 0.2 FTE funded by SOP UQ), held by Dr Karen Whitfield and Dr Michael Barras. Department Director, Dr Ian Coombes is also an Adjunct Associate Professor at School of Pharmacy, University of Queensland and supervises, co-supervises 5 research higher degree students as well as being a co-investigator on innovative clinical pharmacy health care impact research in Sri Lanka.

As in previous years the pharmacy department was well represented at the federal hospital pharmacy conference in November, with the target to reach of 21 papers presented orally or as posters in 2015.

International collaboration has been extensive in particular from Prof Jason Roberts work with ICU, Burns and critical care team. He continues his role as a NHMRC Practitioner Fellow with Professorial positions in the Faculty of Medicine and SOP at UQ. He is also Chair of the Research Strategies Committee in SOP UQ and Director of the NHMRC-funded Centre for Research Excellence, REDUCE, which seeks to redefine antibiotic dosing to reduce the emergence of resistance. This multidisciplinary Centre leads >40 laboratory and clinically-based projects in over 20 countries, with many collaborators that are world-leaders in their fields.

In 2016 Metro North established an Honorary Research Fellow Position with University of Queensland which is held by Associate Professor Neil Cottrell, who has supervised 3 research higher degree students at RBWH.

Benefits for clinical practice:

Our research activities help improve patient outcomes by focusing on the design of pharmacy services; implementation of evidence based practitioner development programs. The work of Prof Roberts' team results in leading edge antimicrobial therapy in critical care patients.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Mulvogue, K.	MPhil, UQ	Prescribing on a Geriatric Evaluation Medical Service using Start-Stop tool	J Roberts, I Coombes, N.Cottrell
Myers, B	PhD, UQ	A study to investigate and evaluate the impact of a clinical pharmacist on the safety and quality of the prescribing on a post take ward round.	I. Coombes
Murphy, K	MPhil, Griffith Uni (2014-2018)	Clozapine and concomitant medications: Assessing the completeness and accuracy of medication records for people prescribed clozapine under shared care arrangements	I Coombes, A Wheeler
Cardiff L	PhD, UQ	To evaluate education, training and competency assessments of medical and non medical prescribers	I Coombes
Ratanjee, S		Accuracy check for dispensed items by a pharmacy technician in Queensland: A pilot study.	I Coombes
Davies, K	MPhil, UQ	Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review	I Coombes
Taufek, N	PhD, UQ	To investigate trace element levels in full term and pre-term infants – and to identify risk factors for deficiency.	K Whitfield
Abu Kassim, N	PhD, UQ	An investigation of the relationships between the levels of vitamins A, D and E in maternal serum/plasma and breast milk with those in infant serum/plasma.	K Whitfield
Ashley, S	MPhil, UQ	Outpatient Parenteral antibiotic therapy; an economic, clinical humanistic analysis at a quaternary hospital	K Whitfield
North, A	MPhil, UQ	An investigation into medication use during high risk pregnancy	K Whitfield
Fabio Gomes	PhD, UQ	Development of an assay for total vitamin D content in milk and application to study the effect of pasteurisation in breast milk	K Whitfield
Nor Taufek	PhD, UQ	Essential Trace Element Analysis of Human Breast Milk	K Whitfield
Karen Davies	PhD, UQ	Design, validation and testing of a nursing administration assessment and evaluation tool	K Whitfield
Chevalier, B	PhD, UQ	Examining communication between hospital pharmacists and patients during medication counselling, and exploring its relationship to medication adherence	M Barras, N.Cottrell
See, JY	PhD, UQ	Use of Pharmacometrics in insulin dosing.	M Barras
Nakagaki, M	MPharm, Newcastle, UK (2011-2016)	A randomised trial of olanzapine and palonosetron versus infused ondansetron for the treatment of nausea and vomiting in patients undergoing haematopoietic stem cell transplantation (HSCT)	M Barras, G Kennedy
Tsai, D	PhD, UQ (2013-2017)	The pharmacokinetics of various antibiotics in critically ill indigenous Australians.	J Roberts, J Lipman
Al-Obaid, AS	PhD, UQ (2012-2016)	The pharmacokinetics of various antibiotics in critically ill obese patients.	J Roberts, J Lipman
Coulter, S	PhD, UQ (2012-)	Cost-effectiveness of antimicrobial stewardship in the Australian healthcare system.	J Roberts
Parker, S	PhD, UQ (2011-2016)	Translating innovative pharmacokinetic sampling techniques into improved antibiotic dosing regimens in critically ill patients.	J Roberts, J Lipman
Abdul-Aziz, MH	PhD, UQ (2011-2016)	Continuous versus bolus dosing of beta-lactam antibiotics in critically ill patients.	J Roberts, J Lipman
Shekar, K	PhD, UQ (2011-2016)	The pharmacokinetics of various antibiotics in critically ill patients receiving extracorporeal membrane oxygenation.	J Roberts

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Economou, C	MPhil, UQ (2011-)	The effect of renal replacement therapy modalities on antibiotic pharmacokinetics in critically ill patients.	J Roberts, J Lipman
Wong, G	MPhil, UQ (2011-)	Therapeutic drug monitoring of beta-lactam antibiotics in critically ill patients.	J Roberts, J Lipman
Sinnollareddy, M	PhD, Uni SA (2010-16)	Pharmacokinetics of fluconazole and other antifungals in critically ill patients.	J Roberts
Wang, L	MPhil, UQ (2013-)	Antibiotic tissue pharmacokinetics in burn injury patients.	J Roberts, J Lipman
Dhanani, J	PhD, UQ (2014-)	An in vitro and in vivo investigation of the comparative lung pharmacokinetics of antibiotics administered intravenously and by aerosolisation	J Roberts
Dorofaeff, T	PhD, UQ (2016-)	Antibiotic pharmacokinetics in critically ill infants and children	J Roberts, J Lipman
Guerra Valero, Y	PhD, UQ (2016-)	Investigation of the use of micro sampling devices for use in ICU pharmacokinetic studies	J Roberts, J Lipman
Gupta, N	MPhil, UQ (2016-)	Antibiotic penetration into the CSF of critically ill patients	J Roberts, J Lipman
Ryan, R	MPhil, UQ (2016-)	Perioperative cefazolin pharmacokinetics in obese patients	J Roberts, J Lipman
Gregory, B	MPhil, QUT (2016-)	Dosing of immunosuppressant medication during renal replacement therapy	J Roberts
Waddell, J	PhD, QUT	The Practice Changing Pharmacist: Capable, Confident and Competent	A Hale, L Nissen, G Kyle, M Clark
Bettenay, K	PhD, QUT	An evaluation of allied health prescribing in Queensland and development of non-medical prescribing implementation and evaluation frameworks.	A Hale, L Nissen
Lo, A	MPhil, UQ (2016-)	Development of an intervention recording app to evaluate clinical pharmacy interventions	J Roberts, A Hale
Ogilvie, M	MPhil, QUT	To evaluate the effect of a collaborative doctor pharmacist prescribing model compared to the usual medical prescribing model in the Emergency Department	A Hale, L Nissen, G Kyle
Richards, P	MPhil, QUT	A comparison between doctor pharmacist collaborative and usual medical model for perioperative prescribing of medications in an anaesthetic lead pre admission clinic	A Hale, L Nissen, G Kyle
Harper, N	PhD, UQ	Impact of an Automated Medication Distribution System (AMDS) on medication safety in the Emergency Department	D Stowasser, N Cottrell, I Coombes, J Suna
Snoswell, C	PhD, UQ	The cost-effectiveness and acceptability of teledermoscopy in Australia	N/A
McCourt, E	MPhil, QUT	An exploration of disaster training for pharmacists and its impact on preparedness and response	Lisa Nissen, Judith Singleton
Sanjida, S	PhD, QUT	Psychological and pharmacological treatment of anxiety and depression in cancer patients	M Janda, I McPhail and K Mulvogue

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Dr Ian Coombes	Adjunct Associate Professor	School of Pharmacy, UQ	2011- present
Dr Andrew Hale	Adjunct Associate Senior Lecturer	School of Pharmacy, UQ	2008 - present
Dr Michael Barras	Adjunct Associate Professor	School of Pharmacy, UQ	2012 - present
Dr Neil Cottrell	Honorary Research Fellow	Pharmacy Services, Metro North HHS	2015 - present
Dr Karen Whitfield	Conjoint Research Fellow Adjunct Senior Lecturer	School of Pharmacy , UQ	2013 - present
Carla Scuderi	Course Coordinator PHRM7040	School of Pharmacy , UQ	2015 - present
Gemma Woodruff	Conjoint Associate Lecturer	School of Pharmacy , UQ	2015 - present
Jason Roberts	Professor and Chair of Research Strategies Committee Professor Honorary Professor Honorary Professor	School of Pharmacy , UQ Faculty of Medicine University of South Australia University of Liverpool, UK	2014 - present

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Ian Coombes	Brooke Myers, Charles Mitchell, Peter Donovan, Jenny Whitty	Evaluation pharmacists impact on Post Take Ward Round
Danielle Stowasser	Ian Coombes, Neil Cottrell, Jessic SUNA	Evaluation Automated medication distribution
Carla Scuderi, Carla Dawson, Danielle Ironside, Michelle Rice, Lauren Millard	Dr Adrian Kark, Neil Cottrell	Supporting adherence in patients with chronic kidney disease through a pharmacist led targeted medication management plan
Withers J, Barras M		Audit of Medication Information in Enterprise Discharge Summaries (EDS) from Internal Medicine Service (IMS) at the RBWH
Midori Nakagaki	Madison Moulston	4th Year UQ Student placement project – Oral Magnesium after Allogeneic Bone Marrow Transplant (BMT) + Reviewing CSA dose adjustment
Julie Withers Suzannah Chapman Jess McIlwain Gemma Woodruff	Kelvin Tan	4th Year UQ Student placement project – Medical bedside drawer audit
Lyndsay Steele Andy Hale	Mojdeh Kholghi	4th Year UQ Student placement project – ABF Mapping across clinics
Michael Barras Amy Legg	Po-Ya Wu	4th Year UQ Student placement project – Enoxaparin & AntiXa levels
Helen Trenerry Panteha Voussoughi Amy Legg	Biong Agon	4th Year UQ Student placement project – Refrigeration project
Karen Davies Champika Pattullo	Cem Ozturk	4th Year UQ Student placement project – IV Safety Software/IV line procedure
Karen Davies Champika Pattullo	Khalid Raza	4th Year UQ Student placement project – IV Safety Software/IV line procedure
Ian Coombes Elicia McDougall Champika Pattullo	Tremaine Stroebel	4th Year UQ Student placement project – Audit of oxycodone use in emergency department
Dr Nathan Peters	Zhi Chung Ng	4th Year UQ Student placement project – Antibiotic timing in surgery (prophylaxis in MRSA patients)

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Adrienne Kostellar	Tien Nguyen (Angel)	4th Year UQ Student placement project – Quality of communication & documentation from pharmacists on high-risk drugs
Emily D'Arcy Champika Pattullo	Long Nguyen	4th Year UQ Student placement project – Day in the life of a cardiology pharmacist – time-in-motion study
Minnie Park	Minchul (Ben) Kim	4th Year UQ Student placement project – Use of injectable medications for the pharmacological management of acutely disturbed behaviour
Dr Nathan Peters Champika Pattullo	Naythen Hoang	4th Year UQ Student placement project – A retrospective audit of Sugammadex usage at the Royal Brisbane and Women's Hospital
Liam Busuttin	Linda Wong	4th Year UQ Student placement project – Justifying and assessing the role of a pharmacist within an advanced musculoskeletal physiotherapy screening clinic and multidisciplinary service
Andy Hale Abby Yu	Amy Speck	4th Year UQ Student placement project – Benefits of a Pharmacist in Pre Admission Clinic
Champika Pattullo	Benjamin Strimaitis	4th Year UQ Student placement project – Evaluation of an 'IV to Oral' program on a surgical ward (9AN) at the Royal Brisbane & Women's Hospital (RBWH)
Margie Butnoris	Lynn Ooi	4th Year UQ Student placement project – Pharmaceutical Waste Management at the RBWH
Nicola Harper	Nicholas Yeh	4th Year UQ Student placement project – Documentation of medication allergies and adverse drug reactions across RBWH
Midori Nakagaki	Cindy Teoh	4th Year UQ Student placement project – Oral Magnesium after Allogeneic Bone Marrow Transplant (BMT) + Reviewing CSA dose adjustment
Carla Scuderi	Josam Alcober	4th Year UQ Student placement project – Pill Burden in CKT patients
Panteha Voussoughi Amy Legg Helen Trenerry	Fiona Fong	4th Year UQ Student placement project – Auditing cold chain practice at the Royal Brisbane and Women's Hospital (RBWH) and developing an educational tool to promote optimal practice

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Jenna Turkington , Brooke Myers (GCUH), Christy Noble (Gold Coast UH)	Coombes I, Peter Donovan, Christy Nobel	Improving Intern Medical Officer Prescribing through an Intervention of Self Assessment and Feedback.

Research Awards and Achievements

Recipient	Award	Event
Jason Roberts	NHMRC Practitioner Fellow	

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Total Amount (years)
Michael Barras, Peter Donovan, Glen Kennedy, Alison Mudge, Ian Coombes	Pharmacy, clinical pharmacology, Haematology, Internal medicine	Evaluation of a Collaborative Optimisation Anticoagulation (COAG)	\$70,000	1 year
Ian Coombes, Peter Donovan , Christy Noble, Charles Mitchell	Pharmacy, clinical pharmacology,	Evaluation of the impact of an evaluation and feedback tool on junior Dr prescribing	\$40,000	
Karen Whitfield	Pharmacy, Neonatal	Neonatal Medication Safety across the Continuum of Care	\$10,000	
Rochelle Ryan, Dwayne Jackson, Rebecca Christensen, Jason Roberts	Pharmacy, Anaesthetics	Dose cefazolin prophylaxis during elective bariatric surgery achieve therapeutic concentration in plasma and interstitial fluid?	\$34,059	1 year
Jason Roberts, Jeffrey Lipman , Sandra Peake, John Turnidge, Monica Slavin, Peter Hopkins, Juergen Bulitta, Sanjoy Paul, Jan De Waele, Gavin Joynt	Pharmacy, ICU	Centre for REdefining antibiotic use to reDUce resistanCE and prolong the lives of antibiotics (REDUCE)	\$400,000	\$2,158,296 5 years
Menino Cotta, Lindy Jeffree, Jason Roberts	Pharmacy, ICU, Neurosurgery	Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage	\$40,000	1 year
Jayesh Dhanani, Jason Roberts , John Fraser, Jeremy Cohen .	ICU, Pharmacy	Does inhaled tobramycin distribute effectively into the lungs? A comparative study using radiolabelled tobramycin	\$40,000	1 year
Jason Roberts, Rob Boots, Menino Cotta	ICU, Pharmacy	Optimising ceftriaxone dosing for critically ill patients with pneumonia	\$40,000	1 year
Matthew Cooper, Mark Blaskovich, David Paterson, Jason Roberts , Karl Hansford	ID, Pharmacy	Novel membrane-targeted antibiotics against drug-resistant Gram-positive bacterial infections.	\$300,000	3 years \$1,351,496.25

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Waddell JJ, Hale AR , Nissen LM. Leadership and Advanced Pharmacy Practice. Research in Social and Administrative Pharmacy. 2016; 12(4): 662-663. DOI: 10.1016/j.sapharm.2016.02.004
Journal Article	Waddell JJ, Nissen LM, Hale AR . Leadership and Advanced Pharmacy Practice: Mapping the APPF to evidence based leadership framework. Journal of Pharmacy Practice and Research. 2016 [Accepted for Publication]
Journal Article	Mulvogue K, Roberts JA, Coombes I , Cottrell N, Kanagarajah S , Smith A. The effect of pharmacists on ward rounds measured by the STOPP/START tool in a specialized geriatric unit. Journal of Clinical Pharmacy and Therapeutics. 2017; 42 (2): 178-184. DOI 10.1111/jcpt.12489
Journal Article	Hale, A. and Coombes, I. and Stokes, J. and Aitken, S. and Clark, F. and Nissen, L. (2016). "Patient satisfaction from two studies of collaborative doctor-pharmacist prescribing in Australia." Health Expect 19(1): 49-61.
Journal Article	The effect of pasteurization on trace elements in donor breast milk. Mohd-Taufek, N., Cartwright, D., Davies, M., Hewavitharana, A. K., Koorts, P., McConachy, H., Shaw, P. N., Sumner, R. and Whitfield, K. (2016) The effect of pasteurization on trace elements in donor breast milk. Journal of Perinatology, 36 10: 897-900. doi:10.1038/jp.2016.88
Journal Article	Effect of pasteurisation on the concentrations of vitamin D compounds in donor breastmilk. Gomes, Fabio P., Shaw, P. Nicholas, Whitfield, Karen , Koorts, Pieter, McConachy, Helen and Hewavitharana, Amitha K. (2016) Effect of pasteurisation on the concentrations of vitamin D compounds in donor breastmilk. International Journal of Food Sciences and Nutrition, 67 1: 16-19. doi:10.3109/09637486.2015.1126566

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	The simultaneous analysis of eight essential trace elements in human milk by ICP-MSMohd-Taufek, Nor, Cartwright, David, Davies, Mark, Hewavitharana, Amitha K., Koorts, Pieter, Shaw, Paul N., Sumner, Ronald, Lee, Eugene and Whitfield, Karen (2016) The simultaneous analysis of eight essential trace elements in human milk by ICP-MS. <i>Food Analytical Methods</i> , 9 7: 1-8. doi:10.1007/s12161-015-0396-z
Journal Article	Sime FS, Johnson A, Whalley S, Santoyo-Castelazo A, Montgomery AB, Walters KA, Lipman J, Hope WW, Roberts JA . Pharmacodynamics of aerosolized fosfomycin and amikacin against resistant clinical isolates of <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> in a hollow-fiber infection model: Experimental Basis for Combination Therapy. <i>Antimicrob Agents Chemother</i> 2016; in press (date accepted 10th October 2016; AAC01763-16).
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC; Lipman J, Roberts JA . Pharmacokinetics of piperacillin in critically ill Australian Indigenous patients with severe sepsis. <i>Antimicrob Agents Chemother</i> 2016; 60(12):7402-7406.
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC; Lipman J, Roberts JA . Total and unbound ceftriaxone pharmacokinetics in critically ill Australian Indigenous patients with severe sepsis. <i>Int J Antimicrob Agents</i> 2016; 48(6):748-752.
Journal Article	Parker SL, Guerra Valero YC, Lipman J, Roberts JA , Wallis SC. Effect of time on recovery of plasma microsamples for the quantitative determination of vancomycin. <i>Bioanalysis</i> 2016; 8(21):2235-2242
Journal Article	Kalil AC, Metersky ML, Klompas M, Muscedere J, Sweeney DA, Palmer LB, Napolitano LM, O'Grady NP, Bartlett JG, Carratalà J, El Solh AA, Ewig S, Fey PD, File TM, Restrepo MI, Roberts JA , Waterer GW, Cruse P, Knight SL, Brozek JL. Executive Summary: Management of Adults With Hospital-acquired and Ventilator-associated Pneumonia: 2016 Clinical Practice Guidelines by the Infectious Diseases Society of America and the American Thoracic Society. <i>Clin Infect Dis</i> 2016; 63(5): 575-82.
Journal Article	Farkas A, Daroczi G, Villasaruda P, Dolton M, Nakagaki M, Roberts JA . Comparative evaluation of the predictive performance of three different structural population pharmacokinetic models to predict future voriconazole concentrations. <i>Antimicrob Agents Chemother</i> 2016; 60(11):6806-6812.
Journal Article	Silbert BI, Ho KM, Lipman J, Roberts JA , Corcoran TB, Morgan TJ, Pavey W, Mas E, Barden AE, Mori TA. Does furosemide increase oxidative stress in acute kidney injury? <i>Antioxid Redox Signal</i> 2016; 26(5):221-226.
Journal Article	Alobaid AS, Wallis SC, Jarrett P, Starr T, Stuart J, Lassig-Smith M , Ordonez J, Roberts MS, Sinnollareddy MG, Roger C, Lipman J, Roberts JA . Effect of obesity on the population pharmacokinetics of fluconazole in critically ill patients. <i>Antimicrob Agents Chemother</i> 2016; 60(11):6550-6557.
Journal Article	Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC; Lipman J, Roberts JA . Optimising meropenem dosing in critically ill Australian Indigenous patients with severe sepsis. <i>Int J Antimicrob Agents</i> 2016; 48(5):542-546.
Journal Article	Kalil AC, Metersky ML, Klompas M, Muscedere J, Sweeney DA, Palmer LB, Napolitano LM, O'Grady NP, Bartlett JG, Carratalà J, El Solh AA, Ewig S, Fey PD, File TM, Restrepo MI, Roberts JA , Waterer GW, Cruse P, Knight SL, Brozek JL. Management of Adults With Hospital-acquired and Ventilator-associated Pneumonia: 2016 Clinical Practice Guidelines by the Infectious Diseases Society of America and the American Thoracic Society. <i>Clin Infect Dis</i> 2016;63(5): e61-e111.
Journal Article	Sartelli M, Weber DG, Ruppé E, Bassetti M, Wright BJ, Ansaloni L, Catena F, Cocolini F, Abu-Zidan FM, Coimbra R, Moore EE, Moore FA, Maier RV, De Waele JJ, Kirkpatrick AW, Griffiths EA, Eckmann C, Brink AJ, Mazuski JE, May AK, Sawyer RG, Mertz D, Montravers P, Kumar A, Roberts JA , Vincent JL, Watkins RR, Lowman W, Spellberg B, Abbott IJ, Adesunkanmi AK, Al-Dahir S, Al-Hasan MN, Agresta F, Althani AA, Ansari S, Ansumana R, Augustin G, Bala M, Balogh ZJ, Baraket O, Bhangu A, Beltrán MA, Bernhard M, Biffi WL, Boermeester MA, Brecher SM, Cherry-Bukowiec JR, Buys OR, Cainzos MA, Cairns KA, Camacho-Ortiz A, Chandy SJ, Jusoh AC, Chichom-Mefire A, Colijn C, Corcione F, Cui Y, Curcio D, et al. Antimicrobials: a global alliance for optimizing their rational use in intra-abdominal infections (AGORA). <i>World J Emerg Surg</i> 2016; 11: 33.
Journal Article	García de Lorenzo A, Luque S, Grau S, Agrifolio A, Cachafeiro L, Herrero E, Asensio MJ, Sánchez M, Roberts JA . Comparative population plasma and tissue pharmacokinetics of micafungin in critically ill patients with severe burn injuries and patients with complicated intra-abdominal infection. <i>Antimicrob Agents Chemother</i> 2016; 60(10):5914-21.
Journal Article	Ingram PR, Rawlins MR, Murray RM, Roberts JA , Manning L. Tigecycline use in the outpatient parenteral antibiotic therapy setting. <i>Eur J Clin Microbiol Infect Dis</i> 2016; 35(10):1673-7.
Journal Article	Roger C, Wallis SC, Muller L, Saissi G, Lipman J, Lefrant JY, Roberts JA . Influence of renal replacement modalities on amikacin population pharmacokinetics in critically ill patients on continuous renal replacement therapy. <i>Antimicrob Agents Chemother</i> 2016; 60(8):4901-9.
Journal Article	Udy AA, Jarrett P, Lassig-Smith M, Stuart J, Starr T, Dunlop R , Deans R, Roberts JA , Senthuran S, Boots RJ, Bisht K, Bulmer A, Lipman J. Augmented renal clearance (ARC) in traumatic brain injury (TBI): A single-center observational study of atrial natriuretic peptide, cardiac output, and creatinine clearance. <i>J Neurotrauma</i> 2016; 34(1):137-144.
Journal Article	Cristallini S, Hites M, Kabtouri H, Roberts JA, Beumier M, Cotton F, Lipman J , Jacobs F, Vincent JL, Creteur J, Taccone FS. A new regimen for continuous infusion of vancomycin in critically ill patients. <i>Antimicrob Agents Chemother</i> 2016; 60(8):4750-6.
Journal Article	Zelenitsky S, Lawson C, Calic D, Ariano R, Roberts JA, Lipman J , Zhanel GG. Integrated pharmacokinetic-pharmacodynamic modeling to evaluate antimicrobial prophylaxis in abdominal surgery. <i>J Antimicrob Chemother</i> 2016; 71(10):2902-8.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Alobaid AS, Wallis SC, Jarrett P, Starr T, Stuart J, Lassig-Smith M , Ordonez-Mejia JL, Roberts MS, Lipman J, Roberts JA . What is the effect of obesity on the population pharmacokinetics of meropenem in critically ill patients? <i>Antimicrob Agents Chemother</i> 2016; 60(8):4577-84.
Journal Article	Cotta MO, Dulhunty JM, Roberts JA , Myburgh J, Lipman J. Should beta-lactam antibiotics be administered by continuous infusion in critically ill patients? A survey of Australia and New Zealand intensive care unit doctors and pharmacists. <i>Int J Antimicrob Agents</i> 2016; 47(6): 436-8.
Journal Article	McDonald C, Cotta MO , Little PJ, McWhinney B, Ungerer J, Lipman J, Roberts JA. Is high-dose B-lactam therapy associated with excessive drug toxicity in critically ill patients? <i>Minerva Anestesiologica</i> 2016; 82(9):957-65.
Journal Article	Bergen P, Bulitta J, Kirkpatrick CMJ, Rogers K, McGregor M, Wallis SC, Paterson DL, Lipman J, Roberts JA , Landersdorfer C. Effect of different renal function on anti-bacterial effects of piperacillin against <i>Pseudomonas aeruginosa</i> evaluated via the hollow fibre infection model and mechanism-based modeling. <i>J Antimicrob Chemother</i> 2016; 71: 2509-2520.
Journal Article	Inhaled Heparin Investigators. Bandeshe H, Boots RJ, Dulhunty J, Dunlop R, Holley A, Jarrett P , Gomersall C, Lipman J, Lo T, O'Donoghue S, Paratz J, Paterson DL, Roberts JA, Starr T , Stephens D, Stuart J, Thomas J, Udy AA, White H. Is Inhaled Prophylactic Heparin Useful for Prevention and Management of Pneumonia in Ventilated ICU Patients? <i>J Crit Care</i> 2016;34:95-102.
Journal Article	Silbert BI, Ho KM, Lipman J, Roberts JA , Corcoran TB, Morgan DJ, Pavey W, Mas E, Barden AE, Mori TA. Determinants of urinary output response to intravenous furosemide in acute kidney injury: a pharmacokinetic / pharmacodynamic study. <i>Crit Care Med</i> 2016; 44(10):e923-9.
Journal Article	Roberts JA , Abdul-Aziz-MH, Davis JS, Dulhunty J , Myburgh J, Bellomo R, Lipman J. Continuous versus Intermittent Beta-lactam Infusion in Severe Sepsis: A Meta-analysis of Individual Patient Data From Randomized Trials. <i>Am J Respir Crit Care Med</i> 2016; 194(6): 681-91.
Journal Article	Solé-Lleonart C, Roberts JA , Chastre J, Poulakou G, Palmer LB, Blot S, Felton T, Bassetti M, Luyt CE, Pereira JM, Riera J, Welte T, Qiu H, Rouby JJ, Rello J. Intratracheal Administration of Antimicrobial Agents in Mechanically Ventilated Adults: An International Survey on Delivery Practices and Safety. <i>Respir Care</i> 2016; 61(8):1008-14.
Journal Article	Roger C, Wallis SC, Louart B, Lefrant, JY, Lipman J , Muller L, Roberts JA. Comparison of equal doses of continuous veno-venous haemofiltration and haemodiafiltration on ciprofloxacin population pharmacokinetics in critically ill patients. <i>J Antimicrob Chemother</i> 2016; 71(6): 1643-50.
Journal Article	Roberts DM, Ranganathan D , Wallis SC, Varghese JM, Kark A, Lipman J, Roberts JA . Pharmacokinetics of intraperitoneal cefalothin and ceftazidime in patients being treated for peritoneal dialysis-associated peritonitis. <i>Perit Dial Int</i> 2016; 36: 415-420.
Journal Article	Osthoff M, Abdul-Aziz MH, Siegemund M, Balestra G, Roberts JA . Prolonged Administration of β -lactam Antibiotics - a Comprehensive Review and Critical Appraisal. <i>Swiss Med Weekly</i> 2016; 146:w14368.
Journal Article	Dhanani J , Fraser JF, Chan HK, Rello J, Cohen J, Roberts JA . Fundamentals of aerosol therapy in critical care. <i>Crit Care</i> 2016; 20(1):269.
Journal Article	Dorofaeff T, Bandini RM, Lipman J , Ballot DE, Roberts JA , Parker SL. Uncertainty in antibiotic dosing in critically ill paediatric patients: can microsampling provide the answers? <i>Clin Ther</i> 2016; 38(9):1961-75.
Journal Article	Parker SL, Dorofaeff T, Lipman J , Ballot DE, Bandini RM, Wallis SC, Roberts JA . Is there a role for microsampling in antibiotic pharmacokinetic studies? <i>Exp Opin Drug Metab Toxicol</i> 2016; 12(6): 601-14.
Journal Article	Jager NL, Van Hest R, Lipman J , Taccone FS, Roberts JA . Therapeutic drug monitoring of anti-infective agents in critically ill patients. <i>Exp Rev Clin Pharmacol</i> 2016; 9(7): 961-79.
Journal Article	Denny K, Cotta MO , Parker SL, Roberts JA, Lipman J . The Use and Risks of Antibiotics in Critically Ill Patients. <i>Exp Opin Drug Saf</i> 2016; 15(5): 667-78.
Journal Article	Calandra T, Roberts JA , Antonelli M, Bassetti M, Vincent JL. Diagnosis and management of invasive candidiasis in the ICU: An updated approach to an old enemy. <i>Crit Care</i> 2016; 20(1):125.
Journal Article	Vincent JL, Bassetti M, Francois B, Karam G, Chastre J, Torres A, Roberts JA , Taccone FS, Rello J, Calandra T, DeBacker D, Welte T, Antonelli M. Advances in Antibiotic Therapy in the Critically Ill. <i>Crit Care</i> 2016; 20(1): 133.
Journal Article	Alobaid AS, Hites M, Lipman J , Taccone FS, Roberts JA . The effect of obesity on the pharmacokinetics of antimicrobials in critically ill patients: a structured review. <i>Int J Antimicrob Agents</i> 2016; 47: 259-68.
Journal Article	Roberts JA , Taccone FS, Lipman J . Understanding PK/PD. <i>Intensive Care Med</i> 2016; 42:1797-1800.
Journal Article	Roberts JA , Choi GYS, Joynt GM, Paul SK, Deans R, Peake S, Cole L, Stephens D, Bellomo R, Turnidge J, Wallis SC, Roberts MS, Roberts DM, Lassig-Smith M, Starr T, Lipman J . SaMpling Antibiotics in Renal Replacement Therapy (SMARRT): an observational pharmacokinetic study in critically ill patients. <i>BMC Infect Dis</i> 2016; 16:103.
Journal Article	Cotta MO, Roberts JA, Lipman J . We need to optimize piperacillin-tazobactam dosing in critically ill patients - but how? <i>Crit Care</i> 2016; 20(1): 163.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Tabah A, Lipman J, Roberts JA. Are new gentamicin dosing guidelines suitable for achieving target concentrations in patients with sepsis and septic shock? <i>Anaesth Crit Care Pain Med</i> 2016; 35: 311–2.
Journal Article	Hanrahan T, Lipman J, Roberts JA. Antibiotic dosing in obesity – a BIG challenge. <i>Crit Care</i> 2016; 20: 240.
Journal Article	Nakagaki M, Barras M, Curley C, Butler JP, Kennedy GA. A Randomized Trial of Olanzapine Versus Palonosetron Versus Infused Ondansetron for the Treatment of Breakthrough Chemotherapy-Induced Nausea and Vomiting in Patients Undergoing Hematopoietic Stem Cell Transplantation. <i>Support Care Cancer</i> 25 (2), 607–613.
Book chapter	Jamal JA Roberts JA. Aminoglycoside dosing in obesity. In Zaidi STR, Roberts JA ed. <i>Drug Dosing in Obesity, Volume 1: Antimicrobials.</i> Springer, Switzerland, 2016.
Book chapter	Jamal JA Roberts JA. Polyene antifungals. In Zaidi STR, Roberts JA ed. <i>Drug Dosing in Obesity, Volume 1: Antimicrobials.</i> Springer, Switzerland, 2016.
Book chapter	Cotta MO, Roberts JA. Pharmacokinetic and pharmacodynamic principles of antimicrobials. In Laundry M, Gilchrist M, Whitney L ed. <i>Antimicrobial Stewardship – A practical guide to the introduction, maintenance and development of an effective program.</i> Oxford University Press, Oxford, UK, 2016.
Book chapter	Sinnollareddy MG, Roberts JA. Pharmacodynamic considerations in critically ill patients. In Rotschafer JC, Andes DR Rodvold KA ed. <i>Antibiotic Pharmacodynamics.</i> Springer, New York, 2016.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Turkington J, Coombes I, Peter Donovan, Christy Nobel, Brooke Myers. Using educational research methods to examine and support junior doctor prescribing: innovation in methodological approaches. National Prevocational Medical Education Conference, Tas Nov 6-9 2016.
Oral	Turkington J, Coombes I, Peter Donovan, Christy Nobel, Brooke Myers. Using educational research methods to examine and support junior doctor prescribing: innovation in methodological approaches. Medicines management: SHPA National Conference. Perth, Nov 16-19 2016.
Invited Plenary	Coombes I. Symposium: Clinical practice: AN AUSTRALIAN PERSPECTIVE. Global Conference pharmacy and pharmaceutical Science Education. Nanjing China November 2016.
Invited Plenary	Coombes I. Symposium: Clinical practice: AN AUSTRALIAN PERSPECTIVE. Global Conference pharmacy and pharmaceutical Science Education. Nanjing China November 2016.
Oral	Trennery H, Coombes I, Barras M, Kubler P The Pharmacist's role in Medication Management for Patients in a Rheumatoid Arthritis Outpatient clinic. Health Care Round Table, Melbourne, June 2016.
Oral	Park M, Chemical restraint – What are we using and are we adhering to guidelines? SHPA 42 nd Medicines Management Conference. Perth, Nov 2016
Invited Speaker	Hale A. Pharmacist Prescribing in Pre Admission Clinic. Health Care Round Table, Melbourne, June 2016.
Oral	N. Mohd Taufek, D. Cartwright, M. Davies, A.K. Hewavitharana, P. Koorts, K. Palmer-Field, P.N. Shaw, K. Whitfield. Investigating the changes of eight essential trace elements in preterm breast milk in the first month of lactation, The Neonate- An International Symposium for Asia, 30 th March – 1 st April 2016, Shanghai, China.
Oral	N. Mohd Taufek, J.A. Duley, H. G. Liley, P.N. Shaw, K. Whitfield. Investigating the longitudinal variation of eight essential trace elements in preterm human milk- a case study, The Neonate- An International Symposium for Asia, 30 th March – 1 st April 2016, Shanghai, China
Oral	N. Mohd Taufek, D. Cartwright, M. Davies, A.K. Hewavitharana, P. Koorts, H. McConachy, P.N. Shaw, K. Whitfield. Investigating the effect of pasteurisation process on trace elements in donor breast milk, Summer conference on Neonatology, 25 th -27 th June 2015, Avignon, Provence, France.
Oral	Whitfield K Al-Adhami N (2015) Changing prescribing culture – a focus on codeine postpartum. Neonatal and Paediatric Pharmacist Group 21 st Conference 6-8 th Nov 2015 Cheshire UK (oral presentation) and Society of Obstetric Medicine Australia and New Zealand Conference 16 th -18 th Oct 2015 Melbourne
Poster	Barkejj C, North A, Whitfield K Medication Management of the Extremely Premature Neonate – the impact of a specialist pharmacist. Neonatal and Paediatric Pharmacist Group 21 st Conference 6-8 th Nov 2015 Cheshire UK
Poster	Mohd-Taufek, Nor, Cartwright, David, Davies, Mark, Hewavitharana, Amitha K., Koorts, Pieter, Shaw, Paul N., Sumner, Ronald, Lee, Eugene and Whitfield, Karen. Investigating the effect of the pasteurisation process on trace elements in donor breast milk. Neonatal and Paediatric Pharmacist Group 21 st Conference 6-8 th Nov 2015 Cheshire UK

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Gomes, Fabio P., Shaw, P. Nicholas, Whitfield, Karen , Koorts, Pieter, McConachy, Helen and Hewavitharana, Amitha K. (2016) Effect of pasteurisation on the concentrations of vitamin D compounds in donor breast milk. Neonatal and Paediatric Pharmacist Group 21st Conference 6-8 th Nov 2015 Cheshire UK
Invited Speaker	Whitfield K. Inaugural Milk Bank Conference Brisbane
Invited Speaker	Whitfield K. Life Long Learning in Pharmacy Croatia (workshop presenter)
Invited Speaker	Roberts JA. Under Dosing of Antibiotics in the ICU - A PK/PD Approach. IDWeek, Infectious Diseases Society of America Annual Scientific Meeting, New Orleans USA, October 2016
Invited Speaker	Roberts JA. Antibiotic use in extracorporeal techniques. European Society of Intensive Care Medicine Annual Congress, Milan, Italy, October 2016.
Invited Speaker	Roberts JA. Dosing antifungals in the critically ill. European Society of Intensive Care Medicine Annual Congress, Milan, Italy, October 2016
Invited Speaker	Roberts JA. Antibiotic PK/PD for treatment of MDR infections. European Society of Intensive Care Medicine Annual Congress, Milan, Italy, October 2016
Invited Speaker	Roberts JA. Optimized PK/PD: Can It Reduce Resistance?. ASM Microbe, Boston, USA, June 2016.
Invited Speaker	Roberts JA. Fitting data to models. ESCMID Postgraduate Technical Workshop Population Modelling and Dose Optimization with Pmetrics and BestDose: Antimicrobial Applications. Lyon, France, April 2016
Invited Speaker	Roberts JA. TDM for beta lactams, sharing of centers experience, expert's vision for the future. Singapore Therapeutic Drug Monitoring Workshop. Singapore, April 2016.
Invited Speaker	Roberts JA. Fitting data to models. NHMRC Centre of Research Excellence REDUCE Workshop on Population Modelling and Dose Optimization, Brisbane, Australia, October 2016.
Invited Speaker	Roberts JA. The importance of antibiotic dosing as part of AMS. 2nd Annual Targeting and Evaluating Antimicrobial Stewardship Forum, Melbourne, Australia, June 2016.
Invited Speaker	Roberts JA. Renal Replacement Therapy, Critical Care Seminar, Society of Hospital Pharmacists of Australia, Brisbane, Australia, May 2016.
Invited Speaker	Roberts JA. Is there a role for TDM in infective endocarditis? Australian Society for Antimicrobials – Annual Scientific Meeting, Melbourne, February 2016.
Invited Speaker	Roberts JA. Using MIC in Predicting Clinical Outcomes of Antibiotic Treatment. Australian Society for Antimicrobials – Annual Scientific Meeting, Melbourne, February 2016.
Invited Speaker	Roberts JA. Approaches to funding the response to antimicrobial resistance. 3rd Queensland Forum on Antimicrobial Resistance. Brisbane, November 2016.
Invited Speaker	Roberts JA. Getting Systemic Therapy Right! Orthopaedic Infections – State of the Art. Wesley Hospital, Brisbane, November 2016.
Invited Speaker	Roberts JA. Individualised antibiotic dosing and therapeutic drug monitoring. Royal North Shore Hospital, Sydney, September 2016.
Invited Speaker	Roberts JA. Drug dosing in obesity. Society of Hospital Pharmacists of Australia Queensland Branch Continuing Education Series, June 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Pharmacy	49	4	29	3

Department of Rheumatology

The rheumatology department provides a comprehensive range of diagnostic and therapeutic services to patients with acute and chronic musculoskeletal disease. Areas of research interest include assessment and management of autoimmune inflammatory arthritis, gouty arthritis, eye conditions related to systemic arthritis and Systemic Lupus Erythematosus (SLE). Specifically, the department has a research interest in applying therapeutic drug monitoring to clinical practice with the aim of providing individualised medicine management. Gout research involves epidemiology and clinical outcomes.

The department liaises closely with other medical specialties, clinical pharmacy services, allied health and community service providers to optimise patient outcomes. There is a monthly combined renal-rheumatology clinic (vasculitis and SLE) which provides clinical outcome data and reporting.

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
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Journal	Finch A and Kubler P. Management of Gout. Aust Prescr 2016; 39: 119-221 (DOI: 10.18773/austprescr.2016.047)
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Medical Imaging



Noelle Cridland
Executive Director
Medical Imaging Services

The Department of Medical Imaging (DMI) provides a full range of diagnostic and interventional imaging services. DMI is actively engaged in departmental, interdepartmental and multi-site collaborative research projects. All research within Medical Imaging is managed by the DMI Research Office, a group consisting of a Research Development Officer, Research Medical Officer and Research Project Officer, and who all report to the Director of Research, Professor Alan Coulthard. The DMI Research Office manages approximately 70 service-based research studies, for which the department provides imaging services to research projects and clinical trials established by other RBWH departments, and by external research groups. During 2016, the Research Office has strengthened its collaborative links to external research institutions such as the Queensland Brain Institute, the Centre for Advanced Imaging, QIMR Berghofer and UQCCR. 2016 has seen a highly productive and collaborative relationship develop between DMI staff and the Herston Imaging Research Facility (HIRF). Support from DMI administrative staff, radiographers and radiologists has assisted this facility to increase their output with a view to establishing HIRF as one of the premiere research imaging facilities in Australia.

The work flow within medical imaging is multi-faceted incorporating highly specialised work forces: radiology, radiography and nursing. The role of the Research Office has extended to support, not only consultants, but residents, radiology registrars, radiographers and nursing staff to achieve their research goals. Residents are encouraged to become involved in existing departmental projects and work directly with the Research Medical Officer, thereby, developing key research skills required for their future progression to the Queensland Radiology Training Programme. Registrars are assisted in developing their Part 1 and Part 2 research projects, a requirement of the radiology training programme set by the Royal Australian and New Zealand College of Radiologists (RANZCR). This additional support to registrars has resulted in a number of first authorships in peer-reviewed journals and presenting their work at national and international conferences. Radiographers and nursing staff are supported in their post-graduate studies with a view to developing their career. Research support to DMI staff during 2016 has culminated in many peer-reviewed publications, DMI representation at national and international conferences and across all specialties. Of particular significance is the contribution our interventional neuro-radiologists made towards establishing a global training guideline for endovascular ischemic stroke intervention; this work resulted in a landmark publication in early 2016.

Research in DMI provides valuable insights into standards of clinical practice by exploring new diagnostic and interventional avenues, leading to improvements in patient treatment and care across all imaging modalities. As always, the immediate beneficiaries of our research are our patients.

DMI has successfully obtained a number of research grants during 2015 to support its research interests. These grants have been awarded from a range of different funding bodies including the RBWH Foundation, RANZCR and National Health and Medical Research Council. Furthermore, DMI has maintained its publication output having nine publications accepted by peer-reviewed journals as well as having consistent representation at various national and international conferences by consultants, registrars and radiography staff.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Mr Patrick Eastgate	PhD, QUT (2015 – 2018)	Patterns in current imaging practice in an emergency department.	Dr Steven McPhail
Dr Nicole Waters	MPhil, UQ (2015-2018)	Silent Strokes Study: Prospective study of clinically silent ischaemic events post-elective endovascular treatment of intracranial aneurysms.	Prof. Alan Coulthard
Dr Cara Odenthal	MPhil, UQ (2013- 2017)	Corpus Callosum atrophy: a predictor of future disease burden in patients presenting with clinically isolated syndrome.	Prof. Alan Coulthard
Ms Vicki Koi	MPhil, QUT (2016-2018)	Research project under development	Supervisor pending
Ms Katherine Smith	MPhil, QUT (2016-2018)	Research project under development	Dr Karen Dobeli
Mr Jacky Ma	MPhil, QUT (2016-2018)	Research project under development	Supervisor pending

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University (years)
Dr Alan Coulthard	Professor	Director of Research, Neurointerventional radiology	UQ, School of Medicine
Dr. Karin Steinke	Associate Professor	Chest and breast oncology	UQ, School of Medicine
Dr Peter Scally	Associate Professor	Fluoroscopy, Tier A procedures	UQ, School of Medicine
Dr Craig Hacking	Senior Lecturer	Trauma and Emergency Radiology	UQ, School of Medicine
Dr Karen Dobeli	Research Fellow	Senior lecturer in the Masters in Medical Imaging CT programme	University of Sydney
Ms Clare Berry	Research Associate	Investigating sexual dimorphism in volumetric mapping of the basal nuclei	QUT

Current RBWH Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Prof. Coulthard Dr Waters Dr Hocking Dr Prior	DMI - departmental project	Bright Spots Study – Prospective study of clinically silent ischaemic events post elective endovascular treatment of intracranial aneurysms.
Prof. Coulthard Dr Hocking Dr Prior	Dr Jeffrey (Neurosurgery) Dr Robertson (Anatomical Pathology) Prof Reutens (Centre for Advanced Imaging)	High field magnetic resonance imaging of hippocampal sclerosis
Prof. Coulthard Dr Hocking Dr Prior	DMI - departmental project	Enoxaparin for postoperative prophylaxis in intracranial coiling and stents (EPPICS)
Prof. Coulthard Dr Hocking Dr Prior	DMI - departmental project	Silent intracranial lesions in endovascular treatments (SILEnT)
Prof. Coulthard Dr Waters	DMI - departmental project	Verify Now Study – Effect of collection technique on platelet inhibition results.

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Assoc. Prof. Yan (Royal Melbourne Hospital)	Dr Nicole Waters (DMI) Prof. Alan Coulthard (DMI)	Genetic Effects on Antiplatelet Response (GEAR)
Prof. Kwun Fong (TPCH)	Assoc. Prof. Karin Steinke (DMI)	Low Dose Computed Tomography (LCDT) to diagnose lung cancer
Prof. Pender (Dept of Neurology, RBWH)	Prof. Alan Coulthard (DMI)	Adoptive immunotherapy for multiple sclerosis
Prof Colditz (UQCCR), Prof. Boyd (QLD Cerebral Palsy Rehabilitation and Research Centre, UQ)	Prof. Alan Coulthard (DMI)	Neurodevelopment of the preterm infant (PREterm Brain Outcomes – PREBO)
Sillagen – Global Trial	Dr Richard Skoien (Dept of Gastroenterology and Hepatology) Dr Sam Davis (DMI) Dr Nigel Mott (DMI)	A study comparing Pexa-Vec (Vaccinia GM-CSF/Thymidine Kinase-deactivated virus) followed by Sorafenib versus just Sorafenib in patients with advanced hepatocellular carcinoma (HCC)

Research Awards and Achievements

Recipient	Award	Event
Dr Eryn Arnfield	Best Poster prize	Selected at RANZCR ASM for presentation at the American Roentgen Ray Society (ARRS) ASM, Los Angeles 2016
Dr Glenna Gibson	Best Poster prize	Thoracic Society of Australia and New Zealand ASM, April 2016
Dr Neda Varzeshi		Poster selected for presentation at RSNA ASM Chicago, 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Prof. Coulthard Dr Jeffree Dr Robertson Dr Hocking Dr Prior Prof Reutens	Medical Imaging, Neurosurgery, Anatomical Pathology, Centre for Advanced Imaging	High field magnetic resonance imaging of hippocampal sclerosis	RBWH Foundation	\$22 817	2016 - 2018
Prof Coulthard Dr Hocking Dr Prior	Medical Imaging	Enoxaparin for postoperative prophylaxis in intracranial coiling and stents (EPPICS)	RANZCR	\$28 519	2016 - 2018
Prof. Kwun Fong, Assoc. Prof. Steinke	Prince Charles Hospital Northside Clinical Unit, Medical Imaging	Low Dose Computed Tomography (LCDT) to diagnose lung cancer.	NHMRC	\$3 000 000	2016 - 2021

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Arnfield E, Bhardwaj H, Brown N, Handy M, Cleland P. Hydrogen peroxide poisoning: an unusual cause of portal venous gas. BJR Case Reports. 2016: doi: 10.1259/bjrcr.20150283
Journal Article	Odenthal C, Simpson S, Oughton J, van der Mei I, Rose S, Fripp J, Lucas R, Taylor B, Dear K, Ponsonby A, Coulthard A. Midsagittal corpus callosum area and conversion to multiple sclerosis after clinically isolated syndrome: a multicentre Australian cohort study. JMIR. 2016: doi:10.1111/1754-9485.12570
Journal Article	Cheng M, Fay M, Steinke K. Percutaneous CT-guided thermal ablation as salvage therapy for recurrent non-small cell lung cancer after external beam radiotherapy: A retrospective study. International Journal of Hyperthermia. 2016: doi:10.3109/02656736.2015.1137640
Letter to the Editor	Schleiger E, Wong A, Read S, Coulthard A, Finnigan S. Improved cerebral pathophysiology immediately following thrombectomy in acute ischaemic stroke: Monitoring via quantitative EEG. Clinical Neurophysiology. 2016: doi.org/10.1016/j.clinph.2016.06.001.
Journal Article	Thaker D., Douglas E., Blazak J., Xu W., Hughes B., Burge M., Steinke K. Wyld D. An analysis of incidental and symptomatic pulmonary embolism (PE) in medical oncology patients. Asia-Pac J Clin Oncol. 2016 doi:10.1111/ajco.12650
Journal Article	Binmahfouz A, Leschke P, Steinke K. Removal of a 40-kg ovarian tumor and the ensuing complex postoperative complications. Int J Case Rep Images 2016;7(10):628–632.
Journal Article	Binmahfouz SA, Steinke K. A case report of breast implant-associated anaplastic large cell lymphoma: The good, the bad, and the ugly. Int J Case Rep Images 2016;7(8):537–541
Journal Article	Binmahfouz SA, Steinke K. The wanderlust of a gallstone: a case report of intrathoracic migration of a gallstone post complicated cholecystectomy mimicking lung cancer. BJR Case Rep 2016: doi.org/10.1259/bjrcr.20150430
Journal Article	Lavine S, Coulthard A. et al. Training guidelines for endovascular ischemic stroke intervention: an international multi-society consensus document. AJNR 2016: doi.org/10.3174/ajnr.A4766
Journal Article	Currie G, Woznitza N, Bolderston A, Westrunk A, Beardmore C, di Prospero L, Nightingale J. Twitter Journal Club in Medical Radiation Science. JMIRS 2016: doi. 10.1016/j.jmir.2016.09.001

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Speaker	Prof. Alan Coulthard. Clinical Radiology Research Forum: The RANZCR research grant – what the reviewers are looking for. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Prof. Alan Coulthard. Lecture: Complications in thrombectomy and how to avoid them. International Neurointerventional Course, Edinburgh UK, 2016
Invited Speaker	Prof. Alan Coulthard. Lecture: Non-invasive imaging of treated and untreated aneurysms. ANZSNR ASM 2016
Invited Speaker	Dr John Clouston. Lecture: Vascular malformations – intervention radiology. Moreton Bay Vascular Society 2016
Invited Speaker	Dr John Clouston. Workshop panellist: Treating Wisely Oncology Workshop. HealthPACT Qld. 2016
Invited Speaker	Dr Craig Hacking. Gastrointestinal: Radiology and Anatomy of Common and Uncommon Herniae. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Dr Craig Hacking. ANZERG Session: Case-based review of midnight emergencies. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Dr Ken Mitchell. Neuro: Update on stroke imaging and therapy. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Dr Nick Keinzle. Liver: Imaging of the liver post percutaneous liver ablation. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Dr Jennifer Sommerville. Head and Neck: Sinus CT – Making reporting relevant. A surgeon's perspective. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Dr Ryan Sommerville. Head and Neck: Sinus CT – Making reporting relevant. A surgeon's perspective. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Assoc. Prof. Karin Steinke. Chest: New image-guided treatments – the many faces of thermal ablation in lung tumours. RANZCR ASM. Gold Coast. October 2016
Invited Speaker	Assoc. Prof. Karin Steinke. Breast Imaging. SMRT ANZ Annual Meeting, Brisbane, November 2016.
Invited Speaker	Dr Karen Dobeli. Lecture: Customising CT protocols for head and neck cancer. I-Med QLD conference, Brisbane 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Speaker	Dr Karen Dobeli. Lecture: Patient preparation for cardiac CT angiography. Society of Cardiovascular Computed Tomography ASM. Orlando USA 2016.
Invited Speaker	Dr Karen Dobeli. Lecture: Pre-procedural blood work and sedation. RADaim. Gold Coast 2016.
Oral	Dr Dan Hilton. Education and Research: Presentations of Acute Abdominal Pain from Emergency – Are you full of it? RANZCR ASM. Gold Coast. October 2016
Oral	Dr Nicole Waters. Interventional: Verify Now Variation. RANZCR ASM. Gold Coast. October 2016
Oral	Dr Jeffrey Hocking. Neuro and Nuclear Medicine: Gadolinium Retention in Brain Tissue after repeated contrast-enhanced MRIs. RANZCR ASM. Gold Coast. October 2016
Oral	Dr Fallon Cominos. Breast, O&G, and Paediatrics: Indications and Outcomes of MRI Guided Breast Biopsy in a dedicated Breast-Imaging Clinic. RANZCR ASM. Gold Coast. October 2016
Poster	Preston D, Prior M, Cleland P. Scientific Poster: Is there a need for non-contrast MDCT imaging with suspected acute aortic syndrome? RANZCR ASM. Gold Coast. October 2016.
Poster	Hocking J, Buchan C. Educational Poster: Lisfranc injuries in wave surfers – a case series. RANZCR ASM. Gold Coast. October 2016
Poster	Robertson S, Hocking J, Coulthard A. Scientific Poster: Platelet response to clopidogrel n 83 patients presenting for elective neurovascular intervention of intracranial aneurysms. RANZCR ASM. Gold Coast. October 2016
Poster	Thalagala H, Hocking J, Coulthard A. Educational Poster: The Rockwood system of acromioclavicular joint injuries and novel imaging techniques improve accuracy of injury and classification. RANZCR ASM. Gold Coast. October 2016
Poster	Brown N, Leschke P, Cleland P. Pre-oncall key conditions training for first year radiology registrars.
Poster	Blazak J, Wullschleger M, Brown N, Wall D, Cleland P. Scientific Poster: Correlation between computed tomographic images and intraoperative findings of bowel and mesenteric injury in blunt trauma.
Poster	Brown N, Handy M, Wullschleger M, Wall D, Cleland P. Scientific Poster: Delayed diagnosis – impact on patient management and quality improvement.
Poster	Arnfield E, Bhardwaj H, Brown N, Handy M, Cleland P. Educational Poster: Hydrogen peroxide poisoning – an unusual cause of portal venous gas.
Poster	Varzeshi N, Cleland P. Educational Poster: Traumatic aorto right ventricular fistula following stab wound diagnosed early by CT angiogram. RSNA. Chicago. November 2016.
Poster	Rao A, Steinke K. Educational: Poster.Pulmonary amyloidomas – an unusual cause mimicking lung cancer. RANZCR ASM. Gold Coast. October 2016.
Poster	Gibson G, Ravi Kumar A, Steinke K, Bashirzadeh F, Roach R, Windsor M, Ware R, Fielding D. Scientific Poster: FDG-PET/CT is sensitive but not specific and outperforms clinical risk predictors in the investigation of solitary pulmonary nodules in a Thoracic Medicine referral centre. TSANZ ASM. Perth. April 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Department of Medical Imaging	10	0	21	11

Medical Services



Judy Graves
Executive Director
Medical Services

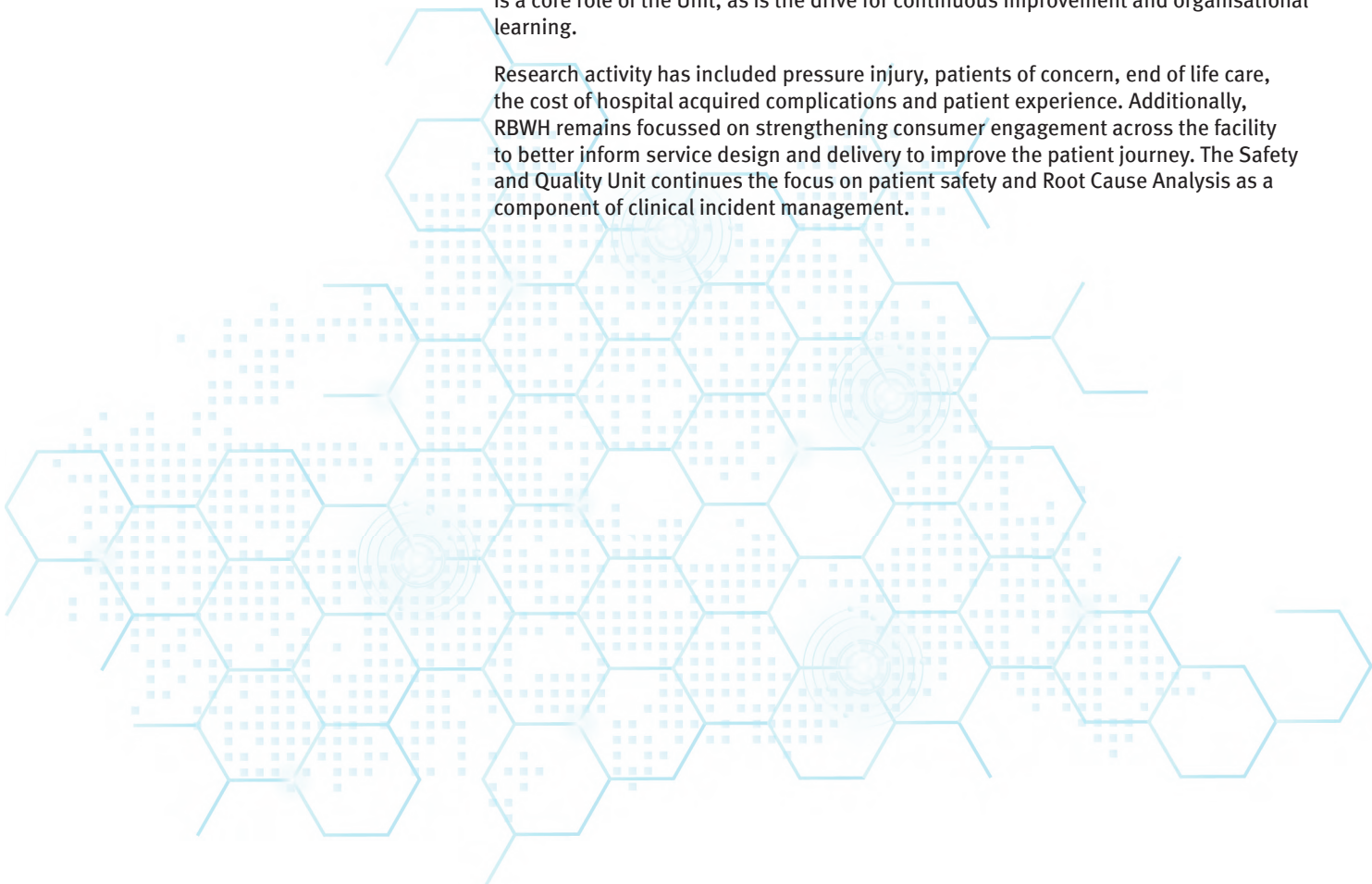
Medical Services provides support to all areas of the Royal Brisbane and Women's Hospital in all aspects of medical administration. The Service Line encompasses several departments and a key research governance committee that contribute to invaluable research activities for the organisation.

The Royal Brisbane & Women's Hospital (RBWH) Human Research Ethics Committee (HREC) is one of two HRECs in the Metro North Hospital and Health Service. The RBWH HREC is registered with the National Health and Medical Research Council (NHMRC) (Registration No: EC00172) and is certified by the NHMRC as a lead HREC under the National Approach to Single Ethical Review of Multi-Centre Research. HREC provides the appropriate regulatory, ethical and scientific standards oversight for research activities at the RBWH, and in 2016 considered 221 new research proposals and approved 179.

The Centre for Palliative Care Research and Education conducts palliative care translational research that improves the links between research and practice and supports palliative care service delivery by providing evidence based information for the workforce. The Centre Director & Clinical Research Program Leader have been awarded funding for collaborative research projects in palliative care from a variety of local and national research funding organisations. These include; NHMRC, Australian Research Council, Cancer Council Queensland, Mater Medical Research Institute, Dept of Health (DOH) and Australian Government.

The role of the Safety and Quality Unit is to lead the patient safety, quality improvement and clinical improvement agendas for the RBWH. This is achieved through an integrated approach in meeting the organisation's clinical governance agenda. The Unit provides expertise and support to the Service Lines through safety partnerships to ensure the delivery of safe, high quality services. Ensuring the engagement of patients, families, carers and all consumers in the design, effective delivery and evaluation of our services is a core role of the Unit, as is the drive for continuous improvement and organisational learning.

Research activity has included pressure injury, patients of concern, end of life care, the cost of hospital acquired complications and patient experience. Additionally, RBWH remains focussed on strengthening consumer engagement across the facility to better inform service design and delivery to improve the patient journey. The Safety and Quality Unit continues the focus on patient safety and Root Cause Analysis as a component of clinical incident management.



Centre for Palliative Care Research and Education



Prof Patsy Yates
Director
Centre for Palliative Care Research
and Education

The Centre for Palliative Care Research and Education – Service Line Medical Services

The primary role of the Centre for Palliative Care Research and Education (CPCRE) is to enhance palliative care services in Queensland through research and education endeavours. To achieve these aims, CPCRE operates as a ‘*centre without walls*’, committed to building and fostering partnerships with the palliative care community in its endeavours.

Highlights of 2016:

The Centre Director & Clinical Research Program Leader have continued projects funded by NHMRC, Australian Research Council, Mater Medical Research Institute, Dept of Health (DOH) and Australian Government. Research projects are multi-disciplinary and are across institutions, and results have been published in national & international peer reviewed publications. The CPCRE Director & Clinical Research Program Leader hold appointments on national and international Palliative Care/Oncological and Nursing advisory boards/reference groups.

CPCRE education activities include: The General Practice Palliative Care Education Program; The Program of Experience in the Palliative Approach; The Evidence Based Palliative Care Strategy; The Queensland Palliative Care Research Group & Workforce Development Programs. The Centre disseminates pertinent Palliative Care education and research information to health professionals via: the CPCRE Website, CPCRE Newsletter(quarterly), CPCRE Calendar (biannually), Monthly E-Bulletins, the Annual Research Conference & the Annual Palliative Care Update Symposium (topic rotates three yearly between general medicine, oncology and supportive care).

Benefits for clinical practice:

- Developing the capacity of the palliative care workforce to provide quality palliative care.
- Improving the links between research and practice in palliative care.
- Undertaking research to enhance the quality of palliative care.
- Providing information which supports the delivery of palliative care services.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Vanessa Brunelli	PhD, QUT (2013-2017)	Development of a Model of Engagement designed to enhance specialist cancer nurse abilities to support people living with lung cancer in self-management	Patsy Yates , Carol Windsor
Elise Button	PhD, QUT (2014-2018)	Identifying risk of deteriorating and dying in people with haematological malignancy	Patsy Yates , Raymond Chan, Shirley Chambers, Jason Butler
Alaa Hafiz	PhD, QUT (2013-2017)	Enhancing the competence of paediatric palliative care nurses in Saudi Arabia	Patsy Yates , Joanne Ramsbotham, Liz Forster
James Hughes	PhD, QUT (2014-2019)	Person, environment and health and illness factors influencing time to analgesia and patient experience of pain management	Patsy Yates , Kimberly Alexander
Lawrence Lim	Professional Doctorate, QUT (2012-2017)	Quality of care in palliative care	Patsy Yates , Shirley Chambers
Nguyen Thuy Ly	PhD, QUT (2015-2019)	A Pilot Randomised Controlled Trial of a Psychoeducational Intervention for Symptom Cluster Management Among Cancer Patients Undergoing Treatments in Vietnam	Patsy Yates , Kimberly Alexander
Sarah Northfield	Masters by Research, QUT (2014-2017)	Referral processes to specialist palliative care services: an Australian practice survey of health care professionals	Patsy Yates , Raymond Chan, John Rosenberg
Doreen Tapsall	Professional Doctorate, QUT (2011-2019)	Factors Influencing Nurses Engagement In Continuing Professional Development in Cancer Nursing	Patsy Yates , Kimberly Alexander
Alison Bowers	PhD, QUT (2016-2020)	Paediatric life-limiting conditions: prevalence and palliative care needs	Patsy Yates , Raymond Chan
Rae Blades	Masters by Research, QUT (2016-2020)	The prevention and treatment of radiation dermatitis in patients with head and neck cancer using StrataXRT, is more cost effective than standard care during and post Radiotherapy	Patsy Yates , Raymond Chan, Steven McPhail
Dianne Legge	Masters by Research, QUT (2015-2019)	Supportive care needs of people diagnosed with low-grade glioma (LGG) in the 3 years post diagnosis	Patsy Yates , Danette Langbecker
Robyn Matthews	Masters by Research, QUT (2016-2020)	The preparedness of novice cancer nurses in delivering end-of-life care in the acute oncology hospital setting	Patsy Yates , Raymond Chan, Stuart Ekberg
Catherine O'Leary	PhD, QUT (2016-2020)	Evaluation of public education approaches to achieve a greater uptake of advance care planning (ACP) in Australia.	Patsy Yates , John Rosenberg
Sharon Slack	Masters by Research, QUT (2016-2020)	The educational, informational and supportive care needs of Rural and Remote men with a prostate cancer diagnosis and the effects on psychosocial outcomes: Are survivorship care pathways the answer?	Patsy Yates , Kimberly Alexander
Alisha Wintour	Masters by Research, QUT (2016-2020)	Evaluation of an Information Pamphlet for HPV Positive Oropharyngeal Cancer Patients	Patsy Yates , Kimberly Alexander
Rani George	PhD, Griffith University (2013-2017)	Individualisation of pain management in cancer patients – methadone	Janet Hardy

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
John Haberecht	Visiting Fellow	Palliative Care	Queensland University of Technology

Research Awards and Achievements

Recipient	Award	Event
Patsy Yates	Appointed Senior Fellow to the Center for Health Outcomes and Policy Research at the University of Pennsylvania School of Nursing	15 th June 2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Yates, P. , Mitchell, G., Currow, D., Eagar, K., Edwards, H., Gardner, G., Willmott, L., Bonner, A., Clark, R., Tieman, J.	Centre for Palliative Care Research and Education	Centre for Research Excellence in End of Life Care	National Health and Medical Research Council	\$686,676	\$2,495,543 (2013–2018)
Kennedy, G., Chan, R., Yates, P., Turner, J., Odell, E. , Smith, A.	Centre for Palliative Care Research and Education	A pilot randomised controlled trial of a nurse-led survivorship intervention for empowering patients with Hodgkin's and Non-Hodgkin's Lymphoma after treatment: The ENGAGE Pilot Trial	RBWH Research Foundation	\$40,000	\$40,000 (2016)
Hoy, W., Healy, H. , Connelly, L., Mitchell, G., Panaretto, K., Endre, Z., Coombes, J., Gobe, G., Bonner, A., Fassett, R., White, B., Douglas, C., Nelson, C., Leon, D., Waugh, D., Kulkarni, H., Tan, K.-S., Brown, M., Jose, M., Yates, P.	Centre for Palliative Care Research and Education	Chronic Kidney Disease Centre for Research Excellence	NHMRC CRE in Health Services	\$638,810	\$2,496,981 (2014–2019)
Yates, P. , Carter, R.	Centre for Palliative Care Research and Education	A Pilot Study to assess the feasibility of an Integrated Survivorship Intervention to improve Patient and Service Level Outcomes for Men with Prostate Cancer	The Movember Group – True NTH	\$499,116	\$1,155,912 (2014–2018)
Broom, A., Kirby, E., Yates, P. , Seale, C., Oliffe, J.	Centre for Palliative Care Research and Education	The changing landscapes of survivorship: A sociological study of life with cancer	Australian Research Council	\$123,700	\$359,700 (2015–2017)
Khan, S., Haywood, A., Norris, R., Hardy, J. , Good, P., Charles, B., Hennig, S., Duley, J., Martin, J., Tapuni, A., George, R., Movva, R.	Centre for Palliative Care Research and Education	Optimising pain management with methadone in patients with cancer	Griffith Health Institute	\$2,500	\$7,500 (2014-2016)
Hardy, J. , Spruyt, O., Good, P., Yates, P. , Oliveira, N., Broom, A., Holt, T., Skerman, H.	Centre for Palliative Care Research and Education	The symptom burden of advanced castrate-resistant prostate cancer – a pilot study	Mater Foundation Grant	\$3,000	\$9,487 (2013-2016)
Currow, D., Abernethy, A., Davidson, T., Hardy, J. , Agar, M, Clark, K	Centre for Palliative Care Research and Education	A randomised, double-blind, multi-site, parallel arm controlled trial to assess relief of refractory breathlessness comparing fixed doses of morphine and placebo	Department of Health and Ageing	\$28,325	\$79,000 (2013-2016)
Hardy, J. , Kindl, K., Tapuni, A., Kingi, N., Good, P., Prasad, S.	Centre for Palliative Care Research and Education	The prevalence of QTc prolongation in patients with cancer	Mater Health Services	In kind	In kind (2014-2017)
Good, P., Hardy, J. , & Heng, S.	Centre for Palliative Care Research and Education	A feasibility study for the addition of parenteral dexamethasone to concurrent opioid therapy in patients with cancer related pain	Mater Health Services	\$4,000	\$12,000 (2014-2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Vayne-Bossert, P., Hardy, J. , Good, P., Richard, R., Flatley, C., Jones, D.	Centre for Palliative Care Research and Education	Integration of oncology and palliative care: Maters' Cancer Care Services as the benchmark	Mater Health Services	In kind	In kind (2014-2017)
P. Good, Hardy, J. , Heng, S., Syrmis, W.	Centre for Palliative Care Research and Education	Oral water soluble contrast for malignant bowel obstruction	Mater Medical Research Institute	\$5,000	\$20,000 (2015-2018)
Hardy, J. , Yates, P. , Miakowski, C., Good, P., Skerman, S.	Centre for Palliative Care Research and Education	Assessing the influence of genetic variation on symptom clusters in men with castrate resistant prostate cancer	Mater Medical Research Institute	\$5,000	\$20,000 (2015-2018)
Bonner, A., Healy, H., Worth, L., Berquier, I., Connolly, L., Douglas, C., Mason, K., Terry, M., Hoy, W. & Yates, P.	Centre for Palliative Care Research and Education	Evaluating the implementation of a Kidney Supportive Care Program into a Hospital and Health Service.	AusHSI Implementation Grant	\$150,000	\$150,000 (2016)
Hardy, J. , Good, P., Olsen, R.	Centre for Palliative Care Research and Education	Talking about death: A study into palliative care communication	Mater Medical Research Institute Seeding Grant	\$5,000	\$19,320 (2016-2018)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Referred Publications	Langbecker, D., Ekberg, S., Yates, P. , Chan, A. & Chan, R. (2016) What are the barriers of quality survivorship care for haematology cancer patients? Qualitative insights from cancer nurses. <i>Journal of Cancer Survivorship</i> , 10(1), 122-130.
	Currow, D., Abernethy, A., Allcroft, P., Banzett, R., Bausewein, C., Booth, S., Carrieri-Kohlman, V., Davidson, P., Disler, R., Donesky, D., Dudgeon, D., Ekstrom, M., Farquhar, M., Higginson, I., Janssen, D., Jensen, D., Jolley, C., Krajnik, M., Laveneziana, P., McDonald, C., Maddocks, M., Morelot-Panzini, C., Moxham, J., Mularski, R., Noble, S., O'Donnell, D., Parshall, M., Pattinson, K., Phillips, J., Ross, J., Schwartzstein, R., Similowski, T., Simon, S., Smith, T., Wells, A., Yates, P. , Yorke, J. & Johnson, M. (2016) Letter to the Editor. The need to research refractory breathlessness. <i>European Respiratory Journal</i> , 47(1), 342-343.
	Langbecker, D. & Yates, P. (2016) Primary brain tumor patients' supportive care needs and multidisciplinary rehabilitation, community and psychosocial support services: awareness, referral and utilization. <i>Journal of Neurooncology</i> , 127(1), 91-102.
	Hardy, J. , Randall, C., Pinkerton, E., Flatley, C., Gibbons, K., Allan, S. A randomised, double blind controlled trial of intranasal midazolam for the palliation of dyspnoea in patients with life-limiting disease. <i>Supportive Care in Cancer</i> 2016 Feb 18. [Epub ahead of print] 24 (7):3069-3076. DOI 10.1007/s00520-016-3125
	Chan, R. , Geary, A. , Yates, P. & Nasato, G. (2016) Building capacity for cancer nursing research and evidence-based practice: the Cancer Nursing Professional Precinct Initiative. <i>Asia Pacific Journal of Oncology Nursing</i> , 3(1), 28-29.
	Ranse, K., Yates, P. & Coyer, F. (2016) Modelling end-of-life care practices: Factors associated with critical care nurse engagement in care provision. <i>Intensive and Critical Care Nursing</i> , 33, 48-55.
	Mcmillan, K., Butow, P., Turner, J., Yates, P. , White, K., Lambert, S., Stephens, M. & Laws, C. (2016) Burnout and the provision of psychosocial care amongst Australian cancer nurses. <i>European Journal of Oncology Nursing</i> , 22, 37-45.
	McCaffrey, N., Hardy, J. , Fazekas, B., Agar, M., Rowett, D., Currow, D. Potential economic impact on hospitalisations of the Palliative Care Clinical Studies Collaborative (PaCCSC) ketamine randomised controlled trial. <i>Australian Health Review</i> . 2016; 40 (1) : 100-05 doi: 10.1071/AH15012. [Epub ahead of print] PMID: 26093387
	Bista, S.R., Haywood, A., Hardy, J. , Norris, R., Hennig, S. Exposure to fentanyl after transdermal patch administration for cancer pain management. <i>Journal Clinical Pharmacology</i> . 2016 Jun; 56(6) : 705-13. doi: 10.1002/jcph.641. PMID: 26381285
	Vayne-Bossert, P., Afsharimani, B., Good, P., Gray, P., Hardy, J. Interventional options for the management of refractory cancer pain - what is the evidence? <i>Supportive Care Cancer</i> 2016 Mar, 24 (3): 1429-38 DOI 10.1007/s00520-015-3047-4 PMID: 26660344
	Vayne-Bossert, P., Haywood, A., Good, P., Khan, S., Rickett, K., Jenkins-Marsh, S., Hardy, J. Corticosteroids for adult patients with advanced cancer who have nausea and vomiting (not related to chemo- or radiotherapy, or surgery) <i>The Cochrane Library</i> DOI: 10.1002/14651858.CD012002 http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD012002/abstract

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
	George, R., Lobb, M., Haywood, A., Khan, S., Hardy, J. , Good, P., Norris, R. Quantitative determination of the enantiomers of methadone in human plasma and saliva by enantioselective liquid chromatography coupled with mass spectrometric detection. <i>Talanta</i> 2016;149:142-148.
	Heng S, Hardy J. Large volume subcutaneous lymphorrhoea drainage. <i>IMJ</i> (clinical scientific note, in press).
	Ekstrom, M., Allingham, S.F., Eagar, K., Yates, P. , Johnson, C. & Currow. D. (2016) Breathlessness during the last week of life in palliative care: An Australian prospective, longitudinal study. <i>Journal of Pain and Symptom Management</i> , 51(5), 816-823
	Masso, M., Allingham, S.F., Johnson, C., Pidgeon, T., Yates, P. , Currow, D. & Eagar, K. (2016) Palliative Care Problem Severity Score: Reliability and acceptability in a national study. <i>Palliative Medicine</i> , 30(5), 479-485
	Fox, J., Windsor, C., Connell, S. & Yates, P. (2016) The positioning of palliative care in acute care: A multiperspective qualitative study in the context of metastatic melanoma. <i>Palliative and Supportive Care</i> , 14 (3), 259-268.
	Marcucci, F.C.I., Cabrera, M.A.S., Perilla, A.B., Brun, M.M., de Barros, E.M.L., Martins, V.M., Rosenberg, J.P. & Yates, P. (2016) Identification and characteristics of patients with palliative care needs in Brazilian primary care. <i>BMC Palliative Care</i> , 15:51.
	Yates, P. (2016) Editorial. Innovative and pragmatic research designs are critical to advance nursing science. <i>Cancer Nursing</i> , 39(3), 251.
	Ranse, K., Yates, P. & Coyer, F. (2016) End-of-life care practices of critical care nurses: A national cross-sectional survey. <i>Australian Critical Care</i> , 29(2), 83-89.
	Hardy, J. , Douglas C. Pining for the Fjords. <i>IMJ</i> 2016; 46:651-652.
	Pidgeon, T., Johnson, C., Currow, D., Yates, P. , Banfield, M., Lester, L., Allingham, S., Bird, S. & Eagar, K. (2016) A survey of patients' experience of pain and other symptoms while receiving care from palliative care services. <i>BMJ Supportive & Palliative Care</i> , 6(3), 315-322.
	Nguyen, L.T., Yates, P. , Annoussamy, L.C. & Truong, T.Q. (2016) The effectiveness of non-pharmacological interventions in the management of symptom clusters in adult cancer patients: a systematic review protocol. <i>JBI Database of Systematic Reviews and Implementation Reports</i> , 14(4), 49-59.
	Button, E., Chan, R., Chambers, S., Butler, J. & Yates, P. (2016) Signs, symptoms, and characteristics associated with end of life in people with a hematologic malignancy: A review of the literature. <i>Oncology Nursing Forum</i> , 43(5), E178-E187.
	Sykes, J., Yates, P. & Langbecker, D. (2016) Evaluation of the implementation of the prostate cancer specialist nurse role. <i>Cancer Forum</i> , 39(3), 199-203.
	Alexander, K.E., Cooper, B.A., Paul, S.M., Yates, P. , Aouizerat, B.E. & Miaskowski, C. (2016) Phenotypic and molecular characteristics associated with various domains of quality of life in oncology patients and their family caregivers. <i>Quality of Life Research</i> , 25(11), 2853-2868.
	Chan, R.J., Yates, P. & McCarthy, A.L. (2016) Fatigue self-management behaviors in patients with advanced cancer: a prospective longitudinal survey. <i>Oncology Nursing Forum</i> , 43(6), 762-771
	Mitchell, G.K., Senior, H.E., Bibo, M.P., Makoni, B., Young, S.N., Rosenberg, J.P. & Yates, P. (2016) Evaluation of a pilot of nurse practitioner led, GP supported rural palliative care provision. <i>BMC Palliative Care</i> , 15:93.
	Jones, J., Hardy, J. , Munster, D., Shannon, C. A Pilot Study of Intraperitoneal Bevacizumab for the Palliation of Malignant Ascites. <i>Asia-pacific Journal of Clinical Oncology</i> . Epub 12 AUG 2016 DOI: 10.1111/ajco.12578
Non-Refereed Publications:	Fox, A., Theobald, K. & Yates, P. (2016) Nurses report formal education improves practice. <i>Australian Nursing and Midwifery Journal</i> , 24(4), 35.
Published Extracts	Beatty, L., Kemp, E., Butow, P., Turner, J., Milne, D., Yates, P. , Yip, D., Lambert, S. & Koczwara, B. (2016) Finding my way: uptake and predictors of adherence to an online psychological intervention for cancer-related distress. <i>Supportive Care in Cancer</i> , 24(Suppl.1), S175.
	Langbecker, D., Ekberg, E. & Yates, P. (2016) Don't need help, don't want help and can't get help: why primary brain tumour patients don't utilise supportive care services. <i>Supportive Care in Cancer</i> , 24(Suppl.1), S176.
	Chan, R., Wallace, A., Downs, E., Langbecker, D., Ekberg, S., Gates, P., Chan, A. & Yates, P. (2016) Cancer nurses' provision of survivorship care for patients with haematological malignancy. <i>Supportive Care in Cancer</i> , 24(Suppl.1), S221.
	McCarthy, A., Hubbard, R., Peel, N., Gillespie, K., Berry, R., Yates, P. & Walpole, E. (2016) Frailty index (FI) predicts chemotherapy outcomes in patients with solid tumors aged ≥ 65 years: prospective, longitudinal study. <i>Asia-Pacific Journal of Clinical Oncology</i> , 12(Suppl.S5), 79.
	Yates, P. , Langbecker, D., Monterosso, L., Aranda, S., Liu, W. & Graves, N. (2016) Impact of specialist prostate cancer nurses on patient reported and health service outcomes: a comparative effectiveness study. <i>Oncology Nursing Forum</i> , 43(2), 122.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
	Yates, P. Building nurses' capabilities in chronic disease management: designing programs to prepare for the future. 2 nd Asian Congress in Nursing Education, Tainan, Taiwan, 27 th January 2016. (invited)
	Yates, P. Achieving transformational and sustainable development in palliative care. Sixth Pan-Pacific Nursing Conference and First Colloquium on Chronic Illness Care, Hong Kong, Hong Kong, 4 th March 2016. (invited)
	Yates, P. Palliative Care. World Indigenous Cancer Conference 2016, Brisbane, Australia, 13 th April 2016. (invited)
	Hardy, J. Integrated Cancer Care. CPCRE 15 th Annual Palliative Care Research Conference, Royal Brisbane and Women's Hospital, Brisbane, Australia, 6 th May 2016. (oral)
	Northfield, S., Chan, R., Rosenberg, J. & Yates, P. Factors that influence palliative care referrals for hospitalised patient with advanced cancer: An integrative review. CNSA 19 th Annual Congress, Cairns, Australia, 12 th - 14 th May 2016. (oral)
	Kain, V.J., Pritchard, M.A., Yates, P. , Curtis, M. & Fraser, R. The Praecox Program: Evaluation of an online educational program to improve neonatal palliative care practice. PSANZ 20 th Annual Conference, Townsville, Australia, 22 nd - 25 th May 2016. (oral)
	Munday, J., Osborne, S., Yates, P. & Sturgess, D. Perioperative warming for caesarean section: A randomized, controlled trial. Acorn Conference 2016, Hobart, Australia, 25 th - 28 th May 2016. (oral)
	Hardy, J. Phase III randomized double-blind controlled trial of oral risperidone, haloperidol and placebo with rescue subcutaneous midazolam for delirium management in palliative care. American Delirium Society Annual Conference, Nashville, USA, 3 rd June 2016. (oral)
	Yates, P. TrueNTH: A multicomponent approach to survivorship care for men with prostate cancer. MASCC/ISOO 2016 Annual Meeting, Adelaide, Australia, 23 rd June 2016. (invited)
	Hardy, J. My life as a researcher. Mater RMO Society Research Conference, Mater Hospital, Brisbane, Australia, 7 th July 2016. (oral)
	Yates, P. The contribution of prostate cancer specialist nurses: perspectives of clinicians. International Conference on Cancer Nursing (ICCN), Hong Kong, Hong Kong, 7 th September 2016. (oral)
	Richard, R., Hardy, J. , Vayne-Bosset, P., Sullivan, K., Good, P. "Are we an integrated oncology-palliative care service?". ANZSPM Annual Conference, Perth, Australia, 8 th - 11 th September 2016.
	Randall, C., Allan, S., Pinkerton, E., Hardy, J. "Short of breath, short of evidence - but does intranasal midazolam help?" 22 nd Hospice New Zealand Palliative Care Conference, Auckland, New Zealand, 14 th - 16 th September 2016.
	Yates, P. Patient outcomes over time – what PCOC can tell us. Palliative Care Queensland Conference, Brisbane, Australia, 4 th November 2016. (oral)
	Hardy, J. "Analgesia for cancer pain – what works, what doesn't and why not?". Brisbane Cancer Conference 2016, Brisbane, Australia, 24 th - 25 th November 2016. (oral)
	Yates, P. Impact of specialist prostate cancer nurses on patient reported and health service outcomes: A comparative effectiveness study. ONS 41 st Annual Congress, San Antonio, Texas, USA, 28 th April - 1 st May 2016. (poster)
	Button, E., Chan, R., Chambers, S., Butler, J. & Yates, P. Prognostic factors in the final three months of life for people with a haematological malignancy: A systematic review. CNSA 19 th Annual Congress, Cairns, Australia, 12 th - 14 th May 2016. (poster)
	Leutenegger, J., Gavin, N. & Yates, P. The tyranny of distance – can teleoncology bridge the gap between rural and remote and tertiary facilities. CNSA 19 th Annual Congress, Cairns, Australia, 12 th - 14 th May 2016. (poster)
	Thamm, C., McCarthy, A. & Yates, P. "There's a lot of people here worse off than me": understanding response shift in the context of head and neck cancer. CNSA 19 th Annual Congress, Cairns, Australia, 12 th - 14 th May 2016. (poster)
	Button, E., Chan, R., Connell, S., Butler, J. & Yates, P. Prognostic factors in the final three months of life for people with a haematological malignancy: A systematic review. 9 th World Research Congress of the European Association for Palliative Care, Dublin, Ireland, 9 th - 11 th June 2016. (poster)
	Vayne-Bosset, P., Richard, R., Good, P., Hardy J. Integration of oncology and palliative care: setting a benchmark. 9 th World research Congress EAPC, Dublin, Ireland, 9 th - 11 th June 2016. (poster)
	Beatty, L., Kemp, E., Butow, P., Turner, J., Milne, D., Yates, P. , Yip, D., Lambert, S. & Koczwara, B. (2016) Finding my way: uptake and predictors of adherence to an online psychological intervention for cancer-related distress. MASCC/ISOO 2016 Annual Meeting, Adelaide, Australia, 23 rd - 25 th June 2016. (poster)
	Langbecker, D., Ekberg, E. & Yates, P. (2016) Don't need help, don't want help and can't get help: why primary brain tumour patients don't utilise supportive care services. MASCC/ISOO 2016 Annual Meeting, Adelaide, Australia, 23 rd - 25 th June 2016. (poster)
	Chan, R., Wallace, A., Downs, E., Langbecker, D., Ekberg, S., Gates, P., Chan, A. & Yates, P. (2016) Cancer nurses' provision of survivorship care for patients with haematological malignancy. MASCC/ISOO 2016 Annual Meeting, Adelaide, Australia, 23 rd - 25 th June 2016. (poster)

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
	King, M, McCaffrey, N., Agar, M., Hardy, J. , Currow, D., Fazekas, B. Assessing health-related quality of life (HRQOL) in palliative care settings: head-to-head comparison of the EORTC QLQ-C15-PAL, FACT-G7, FACIT-Pal and FACIT-Pal-14 patient-reported outcome measures (PROMs). MASCC/ISOO 2016, Adelaide, Australia, 23rd - 26th June 2016. (poster)
	Fox, A., Theobald, K. & Yates, P. Changing the guard to support innovative pathways for health service delivery. ISSOTL 2016, Los Angeles, USA, 12th - 15th October 2016. (poster)
	Heng, S., Hardy, J. , Good, P. A retrospective audit on usage of oral water soluble contrast in patients with known advanced cancer. ESMO Asia 2016 Congress Singapore, 16th - 19th December 2016. To be published in the ESMO Asia 2016 Congress Abstract Book, a supplement to the official ESMO journal Annals of Oncology. (poster)

Other Presentations:

Hardy, J.	Chronic cancer pain. Mater Resident teaching, Mater Health Services, South Brisbane, Australia, 16 th February 2016. (oral)
Hardy, J.	Integrated oncology and palliative care. Palliative Care Interest Group, St Vincent's Private Hospital Brisbane, Brisbane, Australia, 16 th February 2016. (oral)
Yates, P.	Designing a clinical research project. MNHHS Introduction to Research Principles for Health Professionals 2016 "Clinical Research Methodology", RBWH, Herston, Australia, 12 th April 2016. (oral)
Yates, P.	ENHANCES research outcomes. Treating the Person, Managing the Functionality: An Advanced Symposium for Health Professionals working in Head and Neck Cancer, Translational Research Institute, Woolloongabba, Australia, 10 th June 2016. (oral)
Hardy, J., Yates, P.	Nausea as a primary endpoint. A randomised, open label study of guideline driven targeted antiemetic therapy versus single agent antiemetic therapy. MASCC/ISOO 25 th Anniversary meeting, Adelaide, Australia, 23 rd - 25 th June, 2016. (oral)
Haberecht, J	Introduction Prof Sam Ahmedzai. CPCRE special presentation by visiting UK Palliative Care Physician, RBWH, Brisbane, Australia, 28 th June 2016. (oral)
Yates, P.	Cancer as a chronic disease: Implications for health services research. UQCCR Seminar Series, Herston, Brisbane, Australia, 12 th July 2016. (oral)
Hardy, J.	Palliative Care in the Community: a patient-centred approach. CiPC - clarity in Primary Care, Pullman Hotel, Brisbane, Australia, 23 rd July, 2016. (oral)
Hardy, J.	Everything you wanted to know about prostate cancer in 10 minutes. 2016 Lunch for the Lads, Mater Foundation, Mater Hospital, Brisbane, Australia, 19 th August 2016. (oral)
Yates, P.	Cancer as a chronic disease: implications for nursing research and practice. Nethersole School of Nursing, The Chinese University of Hong Kong, Hong Kong, 2 nd September 2016. (oral)
Yates, P.	Patient outcomes research in cancer care. The Hong Kong Polytechnic University, Hong Kong, Hong Kong, 8 th September 2016. (oral)
Hardy, J.	"Analgesia for cancer pain - what works, what doesn't and why not?". Mater Multidisciplinary Education session, Qld Radium Institute, Brisbane, Australia, 2 nd October 2016. (oral)
Workshops:	Yates, P. Grant writing for success. CNSA Pre-Congress Research Workshop, Cairns, Australia, 12 th May 2016. (oral)
	Bennett, M., Hardy, J. , Kalso, E. "Explaining negative studies of analgesics in cancer pain: poor trial methodology or genuine lack of effect?" Workshop presentation, IASP 16 th World Pain Congress, Yokohama, Japan 26 th - 30 th September 2016. (oral)
	Hardy, J. "Gut problems" - nausea, anorexia, constipation/diarrhoea. Workshop presentation, Palliative Care Queensland Conference 2016, Brisbane, Australia, 5 th November 2016. (oral)
	Hardy, J. The aetiology and management of cancer-related nausea. Masterclass, COSA Conference 2016, Gold Coast, Australia, 14 th November 2016. (oral)
	Yates, P. An integrated survivorship intervention for patients with prostate cancer. GU Malignancies Workshop, Brisbane Cancer Conference, Brisbane, Australia, 25 th November 2016. (oral)
	Yates, P. Frailty assessment prior to treatment initiation. ITONF Lung Cancer Satellite Workshop, IASL 17 th World Conference on Lung Cancer, Vienna, Austria, 4 th December 2016. (invited)

2016 Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Prof Patsy Yates	25	0	18	9
Prof Janet Hardy	10	0	15	3



Safety and Quality Unit



Therese Lee
Acting Director
Safety and Quality Unit

The role of the Safety and Quality Unit is to lead the patient safety, quality improvement and clinical improvement agendas for the RBWH. This is achieved through an integrated approach in meeting the organisation’s clinical governance agenda. The Unit provides expertise and support to the Service Lines through safety partnerships to ensure the delivery of safe, high quality services. Ensuring the engagement of patients, families, carers and all consumers in the design, effective delivery and evaluation of our services is a core role of the Unit, as is the drive for continuous improvement and organisational learning.

Research activity has included pressure injury, patients of concern, end of life care, the cost of hospital acquired complications and patient experience. Additionally, RBWH remains focussed on strengthening consumer engagement across the facility to better inform service design and delivery to improve the patient journey. The Safety and Quality Unit continues the focus on patient safety and Root Cause Analysis as a component of clinical incident management.

2016 Research Publications / Presentations Summary Table

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Coyer F, Miles S, Fullbrook P, Gosley S , Sketcher-Baker K, Cook JL, Whitmore J. Pressure injury prevalence in intensive care versus non-intensive care patients: A state-wide comparison. Australian Critical Care. 2016: Doi: http://dx.doi.org/10.1016/j.aucc.2016.12.003
Journal article	Campbell J, Gosley S , Coleman K, Coyer F. Combining pressure injury and incontinence-associated dermatitis prevalence surveys: An effective protocol? Wound Practice and Research. 2016;24(3):170-77.

Mental Health Services



Assoc. Prof. Brett Emmerson
Executive Director
Metro North Mental Health Service

MNMH recognises the full integration of research and practice as critical to optimising the efficiency and effectiveness of services and improving the mental health of consumers and the community. Strong leadership from the Executive and investment in human and technological resources over the past decade has supported establishment of a culture of critical enquiry in which research capabilities and motivation are fostered and opportunities are created for staff to engage as a consumers, participants or producers of research.

MNMH supports conjoint clinical academic appointments with various universities, actively encourages and supports clinicians to undertake post-graduate study and collaborates effectively with a range of stakeholders, locally, nationally and internationally. Staff across disciplines and service lines are working collaboratively to design and conduct research and support translation of evidence to practice. The combined efforts and substantial expertise of researchers in dedicated and clinical positions have supported continuous increases in research and related activities within the service. Publications and other dissemination activities in 2016 included 132 peer-reviewed papers, multiple books/chapters, 90 conference presentations. Demonstrating increased engagement of staff in evaluation and dissemination of their work, many of these presentations are by clinicians and managers. In 2016, two staff members completed PhDs, 36 staff were enrolled in post-graduate studies, MNMH researchers supervised 35 RHD students, more than 70 research/evaluation projects were being undertaken and grants held totalled more than \$35 million. Each year MNMH hosts research students and academics from universities across the world. The multiple robust collaborations, with universities, non-government agencies and consumers established by team members will ensure research within MNMH continues to flourish.

Research conducted within MNMH and by MNMH researchers spans multiple spectrums –ranging from basic discovery science through interventional clinical studies, to health services and policy research. Diverse methodologies are used to develop the evidence needed to improve mental health across the lifespan. Some studies are funded by prestigious grants – many are conducted by dedicated clinicians who go the extra mile to integrate research in practice, with in-kind support of the service. Such diversity is not easily categorised but research falls broadly under seven themes as described below.

Systems Neuroscience

Led by Professor Michael Breakspear, Consultant Psychiatrist at the RBWH, the Program of Mental Health Research at QIMR Berghofer involves epidemiological, genetic, neurobiological and computational research into the major mental health disorders. The Program integrates the work of six different research groups across these areas. The research ranges from basic wet-lab research, to large population-based studies of genetic risk conducted with international consortia, through to the latest in computer modelling and brain imaging technologies. Research encompasses most major mental health disorders, including dementia, major depression, bipolar disorder, ADHD, OCD, post-natal depression and schizophrenia. The Systems Neuroscience team also undertake research into the psychiatric aspects of mood disorders and into epilepsy and neonatal encephalitis. Among the many achievements of the group in 2016 was a breakthrough in understanding of bipolar affective disorder. Working with collaborators from the University of New South Wales (UNSW) researchers made and compared MRI scans of the brains of three different groups: people who had been diagnosed with bipolar disorder, people who had a first-degree relative with bipolar and who were therefore at high genetic risk themselves, and unaffected controls. Analysis showed differences in key brain structures and activities between unaffected controls and people who either have or are at high risk of bipolar disorder with disturbances in the connections responsible for regulating emotional and cognitive processes. The study team hope the findings will in future, lead to a way of identifying and managing those at risk before the onset of bipolar disorder and will also lead to an accurate way of diagnosing affected individuals.

Nursing

The Mental Health Nursing Research Office has a range of active service-based research programs initiated by the nursing leadership group. They aim to not only support nursing research across Metro North Mental Health as its capacity grows but also help develop the academic partnership with the School of Nursing at Queensland University of Technology. Major initiatives such as development and implementation of “Police and Ambulance Intervention Plans” (PaAIP) as well as the Acute Management Plan (AMP) fostered collaboration between Mental Health Services and the Queensland Police and Ambulance Services this year. The Safewards trial implementation was concluded later in the year. Nurses using the Safewards approach in collaboration with Music Therapy was shown to facilitate a social community and toward an energetic interactive hopeful mood experienced by consumers. The integration of nursing research and education has helped highlight what the learning needs are for clinicians and informed ward based education approaches. This year we also examined the impact of a large recruitment of novice practitioners into the mental health nursing workforce. An emphasis was placed on investing in the careers of these staff to integrate successfully with the workforce and provide for long term succession planning within the speciality of mental health nursing. The contribution to research from nursing education in collaboration with The Prince Charles Hospital, that forms part of the Mental Health Directorate, also included training to support the exposure of next generation of Mental Health Nurses to consumer and carer involvement in educational sessions. This can lead the change needed to decrease stigma and tackle disparity within our current healthcare system. The outcomes of this evaluation work continue to attract and retain new nursing graduates into the specialty of mental health.

Early Psychosis and Youth Mental Health

Research under the early psychosis and youth mental health theme ranges from cutting edge studies of the causes of psychosis, through clinical trials to large scale investigations of population health. Led by A/Prof James Scott a growing team of clinicians, students and collaborators combine their efforts and complementary expertise to improve the physical, emotional and physical health outcomes of young people affected by mental illness and promote mental health. Studies are concerned with early identification, accurate diagnosis and effective treatment of mental illness and promotion of mental health generally and for groups identified as ‘at risk’. The team is a member of a national consortium compiling comprehensive coherent data about young people presenting with first episode psychosis. The data being collected as part of clinical care will serve as an invaluable resource for clinicians and researchers seeking to understand the onset, phenomenology and prognosis of psychosis. Among the many highlights of 2016 were publication in the prestigious Journal of the American Academy of Child and Adolescent Psychiatry, of a review of more than 100 studies demonstrating that children with ADHD are at risk of lifelong disadvantage and securing an NHMRC grant to further work into autoantibodies and psychosis.

The Older Persons Mental Health Service (OPMHS)

Led by Professor Gerard Byrne, The OPMHS has strong links with the University of Queensland Academic Discipline of Psychiatry and is actively engaged in teaching students of several disciplines (medical, nursing, psychology, occupational therapy, social work). OPMHS personnel are involved in clinical and health services research relevant to mental disorders affecting older people. The program of work encompasses psychotic and mood disorders, particularly anxiety and depression and depression. Work spearheaded by Professor Byrne, including development of an instrument for assessing anxiety in older people is used internationally. OPMHS researchers collaborate widely, with researchers from world leading universities and academics and clinicians from various disciplines within and beyond the RBWH, as well as with several laboratory-based neuroscientists.

As reflected in publications 2016 has been a productive and rewarding year for OPMHS researchers, with team members leading the way in development and testing of measures and treatments for anxiety and depression among people diagnosed with Parkinson's.

Eating Disorders

The Eating Disorders Service has a strong focus on service evaluation and clinical research, and aims to use the findings of research to inform service delivery/development, improve patient outcomes, and share our work among the national and international eating disorder community. This is achieved through the development of strong collaborations with other health services, universities and research organisations. Current collaborations include Queensland Institute of Medical Research, St Andrews Private Hospital, The University of Queensland and University of the Sunshine Coast. The service actively encourages all staff members to contribute and participate in research activities, and share research findings through conference abstracts and peer reviewed publication.

Research activity in 2016 has been concerned with evaluation of the newly established Intensive Day Program (IDP) and family inclusive practice. Evaluation of the IDP involves a comprehensive mixed methods study being undertaken in partnership with the University of Queensland. The evaluation encompasses four interlinked work streams addressing 1. process – looking how the program is established and acceptability – 2. impact of various stakeholders such as referrers and partner agencies, 3. Clinical outcomes for patients entering the program and 4. Costs involved in establishment. In combination findings from these work streams will support assessment of the feasibility and sustainability of the program and inform ongoing service improvement. Work around family inclusive practice is led by Senior Social Worker Carmel Fleming. Carmel's research program involves a series of studies which will culminate in development, implementation and testing of a comprehensive framework comprising a range of interventions for families of people affected by eating disorders. As a first step toward this ambitious goal Carmel is undertaking a review of charts to assess the extent to which family members are routinely involved in care. Guiding principles of family inclusive practice for adults affected by eating disorders will then be defined and a co-designed, stepped care package developed for use within public health services.

Forensic Mental Health

The Queensland Forensic Mental Health Service (QFMH) is the major provider of mental health services to people with a mental illness involved with, or at risk of entering, the criminal justice system. QFMH comprises integrated Secure Inpatient Services, Prison Mental health Services, Court Liaison Services and Community Forensic Outreach Services.

Research in 2016 has focussed on:

- The interfaces between police, ambulance and mental health services.
- Benchmarking with Forensic Mental Health Services in other states and territories.
- The use of interactive technology in custodial settings for the delivery of social and emotional wellbeing programs.
- Enhancing partnerships with other government departments and the tertiary education sector to improve mental health outcomes.

Our research informs service design and delivery and, ultimately, improves the experience of forensic consumers and other stakeholders. The service prioritises the sharing of research findings with stakeholders and the wider community through publications, seminars and presentations.

Health Services Research and Evaluation

Work in the health services research and evaluation theme is concerned with the systems and processes through which care is delivered and the impact of services on various stakeholders. Researchers and staff across Metro North are collaborating with various partners to generate evidence needed to improve the efficiency and experience of care. Work during 2016 has focused on three key areas – the physical health of consumers, the implantation of evidence based interventions and the expectations and experiences of consumers. Studies examining the implementation of the Queensland Health Smoking Cessation Pathway, the delivery of group-based psychotherapy and the views of young people about ‘recovery’ are supporting quality improvement locally and further afield. A highlight of 2016 was the publication of landmark study led by Consumer Consultant Imani Gunasekara. Entitled ‘what makes an excellent mental health doctor’ this study engaged consumers and psychiatrists in conversation about the kinds of care received and desired.

Researchers identify differences in young people at high risk of bipolar disorder.

A world-first Australian study has identified weak connections in the emotional areas of the brains of young people with bipolar disorder and those at high genetic risk of developing it. It is hoped the findings will allow researchers to develop a tool to identify and manage those at risk before the onset of the disease and help reduce its impact once it develops. The study, published in the prestigious Nature journal Molecular Psychiatry, was a collaboration between researchers from Metro North Mental Health Service, QIMR Berghofer Medical Research Institute and UNSW. Researchers conducted MRI scans on the brains of three groups: people who had been diagnosed with bipolar disorder, people who had a first-degree relative with bipolar and who were at high genetic risk themselves, and unaffected controls. They found networks of weaker connections between different brain regions in both the bipolar and high-risk subjects and disturbances in the connections responsible for regulating emotional and cognitive processes.

Bipolar disorder is a debilitating illness affecting about one in seventy Australians. It typically involves unstable mood swings between manic ‘highs’ and depressive ‘lows’. The age of onset is usually between 18 and 30 years. It is well known that genes play an important role in bipolar disorder; however environmental risk factors – such as traumatic or stressful life events and drug use – are also believed to be significant factors in whether those at genetic risk go on to develop the disorder.

Professor Michael Breakspear, from QIMR Berghofer and Brisbane’s Metro North Hospital and Health Service, said the research team hoped to use the findings to develop a way of identifying those at risk of bipolar before the onset of the disorder. *“At the moment we don’t have any markers or tests for predicting who is at risk of developing bipolar disorder, as we do for heart disease,”* Professor Breakspear said.

“If we can develop a tool to identify and confirm those who are at the very highest risk, then we can advise them on how to minimise their risk of developing bipolar, for example, by avoiding illicit drugs and minimising stress. These discoveries may open the door to starting people on medication before the illness, to reduce the risk of manic episodes before the first one occurs.”

“Our long-term goal is to develop imaging-based diagnostic tests for bipolar. At the moment, diagnosis relies on the opinion of a doctor. Recent research found an average delay of six years between when a person with bipolar experiences their first manic episode and when they receive a correct diagnosis. Many people are incorrectly diagnosed with depression or other disorders. This delays the start of proper treatment with medications that are specific to bipolar disorder. Bipolar has the highest suicide rate of any mental illness, so it’s crucial that we diagnose people correctly straight away so they can start receiving the right treatment.”

The study was funded by the National Health and Medical Research Council.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Rebecca Armstrong	PHD The University of Queensland	Specific language impairment across the lifespan: A retrospective and prospective study.	James Scott
Matt Aburn	PHD The University of Queensland	Computational neuroscience	Michael Breakspear
Elnike Brand	PHD The University of Queensland	Let’s talk about sex – The development of a sexual knowledge base for Forensic Order patients with chronic psychotic illness.	Ed Heffernan , David Street and Graham Neilsen

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Rachael Brimelow	PHD The University of Queensland	Management of affective and anxiety disorders in aged-care: identification, diagnosis and the impact on wellbeing through an e-health initiative for personal carers.	Nadeeka Dissanayaka, Gerard Byrne and Judy Wollin
Bjorn Burgher	PHD The University of Queensland	Neuroinflammation in schizophrenia	James Scott , Michael Breakspear and Gerard Byrne
Megan Campbell	PHD The University of Queensland	Functional anatomy of human mirror system	Michael Breakspear
Peter Carr	PHD Griffith University	Risk Factors for peripheral intravenous cannula insertion failure in the Emergency Department	Claire Rickard, Marie Cooke, Niall Higgins , James Rippey
Fiona Davidson	PHD The University of Queensland	A comparison of court liaison and court diversion services throughout Australia for people with mental disorders	Philip Burgess, Ed Heffernan , David Greenberg, Tony Butler
Emily Hielscher	PHD The University of Queensland	Non-accidental self-injury and suicidality in adolescents and young adults with psychotic experiences	James Scott
Jordan Laurie	PHD The University of Queensland	Non-contact vital signs assessment using robotic vision	Jonathan Roberts; Thierry Peynot, Oran Rigby, Niall Higgins
Elizabeth McVie	PHD The University of Queensland	An analysis of the decisions of the Queensland Mental Health Court	Gerard Byrne
Thy Meddick	PHD The University of Queensland	Exploring family mental health as predictors of children's education and vocational outcomes across the lifespan	James Scott
Melanie Mitchell	PHD The University of Queensland	Precursors to violence in people with mental illness who threaten violence	Gavin Palk & David Kavanagh
Phil Mosley	PHD The University of Queensland	Impulsivity and carer burden in Parkinson's Disease	Michael Breakspear
Lucianne Palmquist	PHD Griffith University	A grounded theory explanation of adolescent "Recovery": CYMHS consumer perspectives	Analise O'Donovan, Sue Patterson , Graham Bradley
Elke Perdacher	PHD The University of Queensland	Utility of the Android tablet PC app. Adaption of the AIMHi Stay Strong Plan with Aboriginal and Torres Strait Islander women in custody	David Kavanagh & Jeanie Sheffield
Annaketurah Ralph	PHD The University of Queensland	Pathway from adverse childhood experiences (ACE) to problematic substance use (PSU) in young adults, specifically looking at the role of emotional dysregulation and rash impulsivity.	Matthew Gullo (Paul Harnett and PJason Connor
Jonathon Robinson	PHD The University of Queensland	Predictive coding errors in schizophrenia	Michael Breakspear
Saurabh Sonkusare	PHD The University of Queensland	Interoception in depression	Michael Breakspear
Suichi Suetani	PHD The University of Queensland	Physical activity and people with psychosis	James Scott , John McGrath
Hannah Thomas	PHD The University of Queensland	Beyond the classroom and into the cyber world, next generation research into adolescent bullying	James Scott
Amy Wong	PHD The University of Queensland	Does Cognitive functioning assist in distinguishing subjects with dissociative identity disorder from those with schizophrenia	James Scott
Ji Hyun (Julia) Yang	PHD The University of Queensland	Mindfulness and cognitive training in Parkinson's disease	Gerard Byrne

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Michael Breakspear	Principal Research Fellowship		NHMRC
James Scott	Practitioner Fellowship	Prevention and Management of Youth Mental Illness	NHMRC
Lisa Fawcett	Clinical Associate Professor	School of Nursing	ACU (2014-current)
Nathan Dart	Clinical Academic Fellow	School of Nursing	ACU (2014-current)
Niall Higgins	Conjoint Senior Research Fellow	School of Nursing	QUT (2015-current)
Elke Perdacher	Lecturer	School of Criminology and Criminal Justice	Griffith University (2010-current)
Edward Heffernan	Associate Professor	School of Medicine	University of Queensland
Jane Phillips	Senior Lecturer	School of Medicine	University of Queensland
Zara Samaraweera	Associate Lecturer - Registrar	School of Medicine	University of Queensland
Sue Patterson	Principal Research Fellow, A/ Prof	Applied Psychology	Griffith University
Sue Patterson	Principal Research Fellow, A/ Prof	School of Oral Health	University of Queensland
Fiona Davidson	Research and Evaluation Officer	Queensland Forensic Mental Health	
Warren Ward	Associate Professor	School of Medicine	University of Queensland
Brett Emmerson	Associate Professor	School of Medicine	University of Queensland
Vikas Moudgil	Senior Lecturer	School of Medicine	University of Queensland
Bjorn Burgher	Mental Health Research Fellow	The Queensland Alliance for Mental Health Research	University of Queensland
Leonardo Gollo	NHMRC (ECF level) Dementia Fellowship	From brain maps to mechanisms: Modelling the pathophysiology of dementia	NHMRC/QIMR Berghofer

Current RBWH Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Forensic MH		
Michelle Perrin, Fiona Davidson		Queensland Prison Mental Health Clinical Profile Project
Bobbie Clugston, Ed Heffernan		Involuntary Treatment Order National Benchmarking
Ed Heffernan, Bobbie Clugston		Siege Negotiation Model for Queensland
Michele Pathe, Tim Lowry, Paul Winterbourne, Brett Emmerson		An evaluation of the Queensland Forensic Threat Assessment Centre
Michele Pathe, Tim Lowry, Paul Winterbourne, Brett Emmerson	Queensland Police Service	An evaluation of the Queensland Forensic Threat Assessment Centre
Michele Pathe, Tim Lowry, Paul Winterbourne, Brett Emmerson	Queensland Police Service	An exploration of the role of the Queensland Forensic Threat Assessment Centre in the G20
Ed Heffernan, Kimina Andersen, Fiona Davidson	Stuart Kinner (Griffith University)	Family Business – Improving and understanding the treatment of PTSD among incarcerated Aboriginal and Torres Strait Islander Women.
Melanie Mitchell	Gavin Palk (QUT) David Kavanagh (QUT)	Mentally ill threateners: A review of mentally ill threateners; the characteristics of the threatener, the nature and context of the threat and the response of mental health staff to threats.
Elke Perdacher, Ed Heffernan, Penny Dale	David Kavanaugh (UQ), Jeanie Sheffield (UQ)	Stay Strong Plan – an evaluation of android Stay Strong Plan app with Aboriginal and Torres Strait Islander women in custody.

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Fiona Davidson, Jane Phillips, Ed Heffernan	Tony Butler (UNSW), David Greenberg (UNSW), Peter Conroy (QPS), Philip Burgess (UQ)	Queensland Court Liaison Service – Pathways of Mental Health Service – A cohort study to explore the pathways of public mental health service care for people that received an assessment by SEQ CLS in 2015.
Fiona Davidson, Jane Phillips, Ed Heffernan	Tony Butler (UNSW), David Greenberg (UNSW), Philip Burgess (UQ)	The National Court Liaison Services Benchmarking Project.
Darren Neillie	Tom Meehan (The Park), J O Gorman, Y Mansfield	Treatment of people with mental illness in Emergency Departments in Queensland
Ed Heffernan, Elissa Waterson, Bobbie Clugston, Fiona Davidson, John Tracey		Queensland Ambulance Service – Mental Health Intervention Coordination Project. Scoping project to conduct analysis of QAS mental health calls.
Ed Heffernan, Michelle Perrin, Bobbie Clugston, Fiona Davidson	Stuart Kinner (Griffith University)	The National Prison Mental Health Benchmarking Project.
Fiona Davidson, Ed Heffernan	Tony Butler (UNSW), David Greenberg (UNSW), Philip Burgess (UQ)	The first National Court Liaison and Court Diversion Survey
Bobbie Clugston, Ed Heffernan, Fiona Davidson, Elissa Waterson		Police Communications Centre – Mental Health Intervention Coordination Project. An evaluation of the first year of the PCC-MHIC program.
Fiona Davidson, Ed Heffernan, Velimir Kovacevic, Bruce Hamilton, Elissa Waterson	Tony Butler (UNSW), David Greenberg (UNSW), Philip Burgess (UQ), Marshall Watson (SA Health), Carolyn Dixon (J&FMHN NSW), Adam Brett (WA), Marea Handley (NT FMHS), Marita O'Connell (Tas Courts MH Program), Narain Nambiar (SA FMHS), Owen Samuels (ACT FMHS), Patrick Seal (Forensicare)	National Court Liaison Service Key Performance Indicators – The establishment of a nationally agreed approach to performance measurement for Australian Court Liaison Services.
Tim Lowry, Bruce Hamilton, Annette Vasey	Bruce Watt (Bond Uni)	High risk psychotic phenomena.
Nursing		
Lisa Fawcett, Niall Higgins, Nathan Dart	Thomas Meehan (The Park) Debra Anderson (Griffith University) Paul Fulbrook (TPCH) Michael Kilshaw (TPCH)	Nursing assessment and management of conflict and containment in acute psychiatric settings
Lisa Fawcett, Niall Higgins, Nathan Dart	Thomas Meehan (The Park) Theresa Green (QUT) Michael Kilshaw (TPCH) Debra Anderson (Griffith University)	Implementation of Safewards and Brøset to Secure Mental Health Rehabilitation Units
Niall Higgins	Andre van Zundert (Anaesthesia), Marcus Watson (CSDS), Claire Rickard (Griffith University), Robert Ware (Griffith University)	Near infrared venous analysis: A trial of vessel finders versus standard technique for peripheral placement of intravenous catheters
Systems Neuroscience		
Michael Breakspear, Nick Martin, Gerard Byrne et al.,		Prospective Imaging Study of Ageing: Genes, Brain and Behaviour
Michael Breakspear		Complex Dynamics in Brain Networks: A Unifying Theoretical and Empirical Project
Michael Breakspear		The neural mechanisms of perception, memory and movement
Michael Breakspear		Analysis of outcome following neonatal hypoxia
Michael Breakspear		The phenomenological, neurobiological and molecular foundations of depression
Michael Breakspear		Physical activity and sedentary behaviours of people with mental illness: Patterns, Attitudes, Barriers and Enablers
Michael Breakspear		Disturbances in perception and prediction in psychotic disorders
Michael Breakspear		Physical activity and sedentary behaviours of people with mental illness: Exploring use of smart technologies

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Older Person's Mental health		
Nadeeka Dissanayaka, Gerard Byrne, O'Sullivan, Rod Marsh, Nancy Pachana		Cognitive Behaviour Therapy for anxiety in Parkinson's disease: outcomes for patients and caregivers
Nadeeka Dissanayaka, Gerard Byrne, O'Sullivan, Rod Marsh, Nancy Pachana		Mindfulness therapy for depression, anxiety, motor and cognitive dysfunction in Parkinson's disease.
Nadeeka Dissanayaka, Gerard Byrne O'Sullivan, Peter Silburn, Rod Marsh, David Copland, Anthony Angwin, Mellick		Developing a non-invasive composite measure to enhance accuracy of identifying anxiety in Parkinson's disease.
Health Services Research and Evaluation		
Sue Patterson, Anna Praskova, Vinit Sawney, Deanna Erskine, Barbara Baumgartner, Brett Emmerson		Describing process and outcomes of a quality improvement initiative designed to achieve adherence to therapeutic guidelines and policy regarding metabolic monitoring of people being treated by mental health services.
Imani Gunasekara	Sue Patterson, James Scott	What makes an excellent mental health doctor?
Sue Patterson	Vikas Moudgil, Pauline Ford (UQ), Mark, Natalie Avery	An investigation of the current practice and expectations of specialist mental health, and drug and alcohol services in relation to monitoring and managing the physical and oral health of people using their services.
Varian Aston, Sue Patterson, Kerrie Jones & Carmel Fleming		Implementing single session family work in Metro North mental health settings: An evaluation of costs, process, experience of participation and perceived impact.
Lisa Jones, Sue Patterson	Jennifer Pouwer (MIFQ), Sue Savill & Jordan Duncan	Mixed methods evaluation of a volunteer model of service for mental health consumers in emergency departments
Sue Patterson, George Bruxner,	Uditha Wijayatunga, Charana Perera, Brett Emmerson Vikas Moudgil Naeem Jehtam	Sue Patterson, George Bruxner,
Sue Patterson	Tim Weaver (Imperial College,London), Jenny Trite (UK)	Impact of involvement in research on views about mental health services and service use.
Natalie Avery	Sue Patterson	Physical health in public mental health care: A qualitative study employing the COM-B model of behaviour to describe views and practices of Australian psychologists.
Sue Patterson, Brett Emmerson, Lisa Fawcett	Wilson Drew, Catherine Elliott, Niall Higgins, Nathan Dart, Roxanne Machen	An Evaluation of the Implementation of the QH Smoking Cessation Clinical Pathway
Sue Patterson, Ray Chan, James Scott, John McGrath	Tai-Rae Downer, Sue Savill	Optimising Recruitment into Randomised Controlled Trials in Mental Health and Cancer Care
Kate Murphy	Sue Patterson, Vikas Moudgil, Ian Coombes, Amanda Wheeler (Griffith)	Clozapine and Concomitant Medications: Assessing the completeness and accuracy of
Sue Patterson, Kylie Garrick,	Analise O'Donovan (Griffith), Lucien Lloyd-West(Griffith) Denae Crough	Optimising delivery of group based interventions in public mental health services: A description of groups provided and a qualitative study of factors influencing process and outcomes
Early Psychosis and Youth Mental Health		
James Scott		Anti-neuronal antibodies in patients with treatment refractory psychotic disorders.
James Scott		M1 muscarinic acetylcholine autoantibodies in first episode psychosis.
Metro North Mental Health Community Mental Health	John McGrath & James Scott	Cadence SCIT
Metro North Mental Health Community Mental Health	John McGrath & James Scott	Cadence-M
Metro North Mental Health Early Psychosis Team	John McGrath & James Scott	Cadence-BZ

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Other studies		
John Kelly, Michelle Taylor, Amanda Morphett, Hollie Wilson & Pamela Meredith		Analysis of the sensory profile of young people within an alcohol and drug treatment service. Expected completion December 2017
Cassandra Davis, John Kelly & Mark Daghli		Outcomes for youth patients receiving allied health involvement as component of inpatient AOD treatment. Expected completion June 2017
Jerome Sarris, CH Ng, Gerard Byrne, David Castle, DA Canfield		N-Acetyl Cysteine in the adjunctive treatment of obsessive-compulsive disorder: A 16-week, double-blind, randomised, placebo-controlled study.
Jerome Sarris, Con K Stough, Gerard Byrne , Andrew Scholey, Chad Bousman		Kava for the treatment of generalized anxiety disorder: a 16-week double-blind RCT.
Jerome Sarris, Isaac Schweitzer, Con K Stough, Chad Bousman, Gerard Byrne		The efficacy of adjunctive S-Adenosyl Methionine (SAME) versus a combination nutraceutical in clinical depression: A double-blind, randomised, placebo-controlled trial.
Eating Disorders		
Sue Patterson & Jeanie Sheffield (UQ)	Warren Ward , John Van Beusekom (UQ)	A mixed-methods evaluation of a three-month Intensive Outpatient Program for people with Eating Disorders
Carmel Fleming, Sue Patterson		Assessing the extent of family involvement in provision of services to adults affected by eating disorders: A retrospective chart audit

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Lead Researchers	RBWH Researchers	Research Project Title
Julia Crilly (Gold Coast Hospital), Stuart Kinner (Griffith University)	Ed Heffernan (FMHS)	Improving the outcomes for people with acute mental illness in emergency departments
Lee Martinez (USA), May Walker-Jeffreys (USA), Martin Jones (USA), Arana Pearson (indep consultant)	Sue Patterson (Mental Health)	Hearing Voices that are Distressing Simulation – Impact on Rural Students and Workforce.
Karl Friston (Wellcome Trust Centre for Neuroimaging, UK)	Michael Breakspear	Generative models of psychiatric disorders
Viktor Jirsa (Theoretical Neuroscience Group, Institute de Neurosciences des Systemes, France)	Michael Breakspear	Brain network dynamics in epilepsy
Randy McIntosh (Rotman Research Institute, Canada)	Michael Breakspear	Connectomics of dementia
Petra Ritter (Bernstein Center for Computational Neuroscience, Berlin, Germany)	Michael Breakspear	Modelling the Virtual Brain
Olaf Sporns, (Department of Psychology, Indiana University, USA)	Michael Breakspear	Principles of brain networks
Klass Stephan (Wellcome Trust Centre for Neuroimaging, UK)	Michael Breakspear	Brain networks and impulsivity in Parkinson's Disease
Tjeerd Boonstra (Black Dog Institute, Sydney, Australia)	Michael Breakspear	Multiplex muscle networks
Phil Mitchell (UNSW Sydney, Australia)	Michael Breakspear	Neurobiology of bipolar disorder
Gordon Parker, (UNSW Sydney, Australia)	Michael Breakspear	Neurobiology of melancholia

Research Awards and Achievements

Recipient	Award	Event
Dylan Flaws	Metro North "Rising Star" Early Career Researcher of the Year	MNHHS Research Excellence Awards
Michael Breakspear	Technology and Biotechnology	MNHHS Research Excellence Awards
Michael Breakspear	Researcher of the Year	MNHHS Research Excellence Awards
James Scott	Promoting Healthy Minds and Bodies	MNHHS Research Excellence Awards
Michael Breakspear	Principal Research Fellowship	NHMRC
Michael Breakspear	Senior Research Award	RANZCP

Research Grants - Awarded

Investigators (RBWH staff in bold)	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Breakspear, M	Brain Connectomics in Psychiatry	NHMRC Principal Research Fellowship	\$763,845	2017 - 2021
Breakspear, M	Researcher of the Year	Metro North Mental Health and Hospital Research	\$5,000	
Breakspear, M, Patterson S, Chapman J	Trialing the feasibility and acceptability of physical activity self-monitoring and supervised exercise interventions for adults with severe mental illness	RBWH Foundation Grant	\$39,000	
Breakspear M , Martin, Byrne G, et al.,	Prospective Imaging Study of Ageing: Genes, Brain and Behaviour (PISA).	NHMRC Grant	\$6,465,047	2016-2020
Burgher B, Scott JG , Cumming P, Breakspear M .	Early Psychosis: Neuroinflammation and Neurodegeneration from Ultra High Risk to First Episode Psychosis	Herston Imaging Research Facility (HIRF) Seed Research Funding	\$100,000	
Ferrari A, Charlson, F, Erskine H, Leung J, Veerman L & Scott JG	Unpacking the Global Burden of Disease Study: How to use over 1 billion findings in your research and practice	MBS Collaborative Workshop grant	\$4,890	
Sarris J, Ng C, Byrne G , Castle D, Canfield PJ.	N-Acetyl Cysteine in the adjunctive treatment of obsessive compulsive disorder: A 16-week, double-blind, randomised, placebo-controlled study	NHMRC Grant	\$850,448	2016-2018
Scott JG	Anti-Neuronal Antibodies in patients with treatment refractory psychotic disorders	RBWH Foundation Grant	\$44,000	2017
Scott JG , McGrath J & Siskind D.		Brisbane Diamantina Health Partners Brain and Mental Health Establishment Grant	\$70,000	2017
Stafford L, Newman L, Mann B, Turner J et al.,	EPIC. Enhancing parenting in cancer: Development and evaluation of a brief psychoeducational intervention to support parents with cancer who have young children	Victorian Cancer Agency	\$200,000	2016-2017
Randall C, Patterson, S & Ward W Sheffield J	Clinical outcomes and experience of a three month intensive outpatient program for people with Eating Disorders: A mixed methods stud to inform systematic quality improvement.	RBWH Foundation	\$27,110	2017
Fleming C	Eating Disorders Outreach Service Family LINK-ED Project	Collaborative for Allied Health Research, Learning and Innovation MNHHS (CAHRLI) Innovation Fund	\$10,255	2017
Fleming C	Improving the Service Response to Families Affected by Eating Disorders.	Collaborative for Allied Health Research, Learning and Innovation MNHHS (CAHRLI) Pre-PhD Scholarship	\$11,717	2017

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Abajobir AA, Kisely S, Scott JG et al., Childhood maltreatment and young adulthood hallucinations, delusional experiences and psychosis: a longitudinal study. <i>Schizophr Bull.</i> (In Press Accepted 22 November 2016).
Journal Article	Alghowinem S, Goecke R, Wagner M, Epps J, Hyett, M, Parker G & Breakspear M. Multimodal Depression Detection: Fusion Analysis of Paralinguistic, Head Pose and Eye Gaze Behaviors. <i>IEEE Trans on Affective Computing.</i> 2016. DOI: 10.1109/TAFFC.2016.2634527
Journal Article	Al-Kaysi AM, Al-Ani AA, Loo CK, Powell TY, Martin DM & Breakspear M. Predicting tDCS treatment outcomes of patients with major depressive disorder using automated EEG classification. <i>J Affective Disorders.</i> 2016: DOI: 10.1016/j.jad.2016.10.021
Journal Article	Armstrong R, Arnott W, Copland D, McMahon K, Khan A, Najman JM. & Scott JG. Change in receptive vocabulary from childhood to adulthood: Associated mental health, education and employment outcomes. <i>Int J Language & Comm Dis</i> 29 DEC 2016 DOI: 10.1111/1460-6984.12301
Journal Article	Armstrong R, Scott JG, Copland D, et al., Predicting receptive vocabulary change from childhood to adulthood: A birth cohort study. <i>J Commun Disord.</i> 2016; 64, 78-90.
Journal Article	Armstrong R, Whitehouse A J O, Scott JG, Copland D, McMahon K, Fleming S, & Arnott W. A relationship between early language skills and adult autistic-like traits: Evidence from a longitudinal population-based study. <i>Journal of Autism and Developmental Disorders</i> , 2016. (In Press Accepted 21 December 2016).
Journal Article	Boonstra TW, Farmer SF & Breakspear M. Using Computational Neuroscience to Define Common Input to Spinal Motor Neurons. <i>Front Hum Neurosci.</i> 2016, 10: 313. DOI: 10.3389/fnhum.2016.00313
Journal Article	Borchardt V, Lord A R, Li M ... Breakspear M. Walter. Preprocessing strategy influences graph-based exploration of altered functional networks in major depression. <i>Hum Brain Mapping.</i> 2016; 37(4): 1422-1442. DOI: 10.1002/hbm.23111
Journal Article	Borschmann R, Thomas E, Moran P, Carroll M, Heffernan E, et al., Self-harm following release from prison: A prospective data linkage study. <i>ANZJ of Psychiatry.</i> 2016; 1-10 DOI: 10.1177/0004867416640090
Journal Article	Briffa D, Davidson F & Ferndale D. An identification of the social and emotional needs of people living with post-lingual hearing loss. <i>J Am Deafness & Rehab Assoc.</i> 2016; 50(2), 67-88.
Journal Article	Carr PJ, Rippey J, Budgeon CA, Cooke ML, Higgins NS & Rickard C. Insertion of peripheral intravenous cannulae in the Emergency Department: factors associated with first time insertion success. <i>J Vascular Access.</i> 2016; 17(2), 182-190. Doi: 10.5301/jva.5000487
Journal Article	Carr PJ, ... Budgeon C, Aleasa FO, Higgins N & Rickard C. Development of a clinical prediction rule to improve peripheral intravenous cannulae first attempt success in the Emergency Department and reduce post insertion failure rates: The Vascular Access Decisions in the Emergency Room (VADER) study protocol. <i>BMJ Open.</i> 2016; DOI: 10.1136/bmjopen-2015-009196
Journal Article	Carr PJ, Rippey J, Moore T, Ngo H, Cooke M, Higgins NS & Rickard C. Reasons for removal of Emergency Department-inserted peripheral intravenous cannulae in admitted patients: A retrospective medical chart audit in Australia. <i>Infection Control & Hospital Epidemiology</i> , 2016; DOI:10.1017/ice.2016.70.
Journal Article	Chapman JJ, Roberts JA, Nguyen VT & Breakspear M (2016). Quantification of free-living activity patterns using accelerometry in adults with mental illness. <i>arXiv.</i> DOI: 1612.04471
Journal Article	Cheah A, Pandey R, Daghli M, Ford P & Patterson S. A qualitative study of patients' knowledge and views of about oral health and acceptability of related intervention in an Australian inpatient alcohol and drug treatment facility. <i>Health & Social Care in Community.</i> 2016; 25(3):1209-1217. <i>Hlth & Social Care Community</i> , 25(3):1209-1207.
Journal Article	Cocchi L, Sale MVL, Gollo L, Bell PT, Nguyen VT, Zalesky A. Breakspear M. & Mattingley JB. A hierarchy of timescales explains distinct effects of local inhibition of primary visual cortex and frontal eye fields. <i>eLife</i> , 2016; 5. DOI: 10.7554/eLife.15252
Journal Article	Connell M, Betts K, McGrath JJ, Alati R, Najman J, Clavarino A & Scott JG. Hallucinations in adolescents and risk for mental disorders and suicidal behaviour in adulthood: Prospective evidence from the MUSP birth cohort study. <i>Schizophr Res.</i> 2016; 176(2-3), 546-551
Journal Article	Cox L, Campbell C & Dalton J. Teaching the Safewards model in a bachelor of nursing program [online]. <i>Australian Nursing and Midwifery Journal.</i> 2016; 23(11), 49.
Journal Article	Crawford M, Barnicot K, Patterson S & Gold C, Negative results in phase III trials of complex interventions: cause for concern or just good science? <i>BJP</i> 2016; doi: 10.1192/bjp.bp.115.179747.
Journal Article	Denham R, McGee T, Eriksson L, McGrath JJ, Norman R, Sawyer M & Scott JG. Frequent peer problems in Australian children and adolescents. <i>J Aggress Confl Peace Res.</i> 2016; 8(3).162 - 173
Journal Article	Dissanayaka N. ... Byrne G. & Harnett P. Mindfulness for motor and nonmotor dysfunctions in Parkinson's Disease. <i>Parkinson's Disease.</i> 2016; DOI:10.1155/2016/7109052.
Journal Article	Dissanayaka N. ... Byrne G. Disease-specific anxiety symptomatology in Parkinson's disease. <i>International Psychogeriatrics.</i> 2016; 1-11. DOI:10.1017/S1041610215002410.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Dissanayaka N. ... & Byrne G. et al., Cognitive behavior therapy for anxiety in Parkinson's disease: outcomes for patients and caregivers. <i>Clinical Gerontologist</i> . 2016; DOI:10.1080/07317115.2016.1240131.
Journal Article	Dissanayaka N. ... & Byrne G. Disease-specific anxiety symptomatology in Parkinson's disease. <i>International Psychogeriatrics</i> . 2016; 28(7): 1153-1163. DOI: 10.1017/S1041610215002410.
Journal Article	Emmerson B, Praskova A, Fawcett L, Crompton D & Heffernan E. Mental Health Services Planning for G20 Summit in Brisbane and Assessment Impact. <i>Aust Psychiatry</i> . 2016; Sep 28. pii: 1039856216671653. [Epub ahead of print]
Journal Article	Erskine HE, Baxter AJ, Patton G, Moffitt TE, Patel V, Whiteford HA & Scott JG. The global coverage of prevalence data for mental disorders in children and adolescents. <i>Epidemiol Psychiatr Sci</i> . 2016; 20, 1-8.
Journal Article	Erskine HE, Norman RE, Ferrari AJ, Chan GC, Copeland WE, Whiteford HA, & Scott JG, (2016). Long-Term Outcomes of Attention-Deficit/Hyperactivity Disorder and Conduct Disorder: A Systematic Review and Meta-Analysis. <i>J Am Acad Child Adolesc Psychiatry</i> . 2016; 55(10):841-50. doi: 10.1016/j.jaac.2016.06.016.
Journal Article	Evatt M, Scanlan JN, Benson H, Pace C & Mouawad A. Exploring consumer functioning in high dependency units and psychiatric intensive care units: Implications for mental health occupational therapy. <i>Aust Occup Typ J</i> . 2016; 63(5),312-320. DOI: 10.1111/1440-1630.12290.
Journal Article	Fardell JE, Thewes B, Turner J, Gilchirst J, Sharpe L, Smith AB, Girgis A & Butow P Fear of cancer recurrence: a theoretical review and novel cognitive processing information. <i>Journal of Cancer Survivorship</i> . 2016; DOI 10.1007/s11764-015-0512-5
Journal Article	Ferro MA, Van Lieshout R J, Ohayon J & Scott JG. Emotional and behavioral problems in adolescents and young adults with food allergy. <i>Allergy</i> . 2016; 71(4), 532-540.
Journal Article	Ferro MA, Van Lieshout R, Scott JG et al., Condition-Specific Associations of Symptoms of Depression and Anxiety in Adolescents and Young Adults with Asthma and Food Allergy. <i>J Asthma</i> . 2016; 53(3), 282-8
Journal Article	Flanagan KJ, Copland DA, van Hees S, Byrne G & Angwin A. Semantic feature training for the treatment of anomia in Alzheimer disease: A preliminary investigation. <i>Cognitive and Behavioral Neurology</i> . 2016p; 29 1: 32-43. DOI:10.1097/WNN.000000000000088
Journal Article	Flaws D et al., (2016). External validation of the emergency department assessment of chest pain score accelerated diagnostic pathway (EDACS-ADP). <i>Emergency Medicine Journal</i> , emermed-2015.
Journal Article	Forouzanfar MH... Scott JG ...et al., Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. <i>Lancet</i> . 2016; 388(10053), 1659-1724.
Journal Article	Green B, Denton M, Heffernan E, Stapleton L & Waterson, E (2016). From custody to community: outcomes of community-based support for mentally ill prisoners. <i>Psychiatry, Psychol & Law</i> , DOI: 10.1080/13218719.2016.1152926.
Journal Article	Guo CC, Hyett MP, Nguyen VT, Parker G & Breakspear M. Distinct neurobiological signatures of brain connectivity in depression subtypes during natural viewing of emotionally salient films. <i>Psychological Medicine</i> . 2016; 46(7):1535-45.doi: 10.1017/S0033291716000179.
Journal Article	Harding IH, Harrison BJ, Breakspear M, Pantelis C & Yucel M. Cortical Representations of Cognitive Control and Working Memory Are Dependent Yet Non-Interacting. <i>Cerebral Cortex</i> . 2016; 26(2): 557-565. DOI: 10.1093/cercor/bhu208
Journal Article	Heffernan E, Davidson F, Andersen K. & Kinner S. Substance use disorders among Aboriginal and Torres Strait Islander people in custody: a public health opportunity. <i>Health and Justice</i> . 2016; 4:12. DOI 10.1186/s40352-016-0044-8
Journal Article	Henry J, Castellini J, Moses E, & Scott JG. Emotion regulation in adolescents with mental health problems. <i>J Clin Exp Neuropsych</i> . 2016. 38(2):197-207.
Journal Article	Higgins N, Dart N, Meehan T, Fulbrook P, Kilshaw M, Anderson D & Fawcett, L The Safewards program in Queensland public hospital acute mental health settings. <i>Australian Nursing and Midwifery Journal</i> , 2016. 23; 11, Jun: 41. Availability: <http://search.informit.com.au
Journal Article	Kelly J, Harrison R & Palmer A (2016) Trauma and youth alcohol and drug use Findings from a youth outpatient treatment service. <i>Journal of Applied Youth Studies</i> ; 1(2) DOI:2016 v1 p 58-76
Journal Article	Khatun M, Mamun A & Scott JG. Do children born to teenage parents have lower adult intelligence? A prospective birth cohort study. <i>PLoS One</i> , (In Press Accepted 16 November 2016).
Journal Article	McGrath J, Alati R, Clavarino A... Scott JG. Age at first tobacco use and risk of subsequent psychosis-related outcomes: A birth cohort study. <i>Aust N Z J Psychiatry</i> . 2016; 50(6):577-83.
Journal Article	McKeon GL, Scott JG, Spooner DM et al., (2016). Cognitive and Social Functioning Deficits after Anti-N-Methyl-D-Aspartate Receptor Encephalitis: An Exploratory Case Series. <i>J Int Neuropsychol Soc</i> . 2016, 22(8), 828-838
Journal Article	McMillan K, Butow P, Turner J, Yates P, et al., Burnout and the provision of psychosocial care amongst Australian cancer nurses. <i>Eur J Onc Nurs</i> 2016, DOI 22:37-45

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Mehrkanoon, S. Boonstra, T. W. Breakspear, M. Hinder, M. Summers, J. J, (2016). Upregulation of cortico-cerebellar functional connectivity after motor learning. <i>Neuroimage</i> , 28: 252-263. DOI 10.1016/j.neuroimage.2015.12.052.
Journal Article	Mellsop G, Choi W K, Every-Palmer S, Green B, Heffernan E et al., Drug driven psychoses and legal responsibility or insanity in six Western Pacific nations. <i>Int J law & psychiatry</i> . 2016; 47:68-73
Journal Article	Mitchell M & Palk G. Traversing the Space between Threats and Violence: A Review of Threat Assessment Guidelines. <i>Psychiatry, Psychol & Law</i> 2016. DOI: 10.1080/13218719.2016.1164638
Journal Article	Moe, A., Scott, J., Burne, T. & Eyles, D, (2016). Neural changes induced by antipsychotic administration in adolescence: A review of studies in laboratory. <i>Journal of Psychopharmacology</i> . 30(8):771-94
Journal Article	Moore SE, Norman RE, Suetani S, Thomas HJ, Sly PD, & Scott JG. Consequences of bullying victimization in childhood and adolescence: A systematic review and meta-analysis <i>World Journal of Psychiatry</i> . (In Press; Accepted 28 December 2016).
Journal Article	Murphy K , Coombes I, Patterson S , Moudgil V & Wheeler A. A Clozapine and concomitant medications: assessing the completeness and accuracy of medication records for people prescribed clozapine under shared care arrangement. <i>Journal of Evaluation in Clinical Practice</i> (In Press)
Journal Article	Najman JM, Plotnikova M, Williams GM, Alati R, Mamun AA, Scott J, Clavarino AM. Trajectories of maternal depression: a 27-year population-based prospective study. <i>Epidemiol Psychiatr Sci</i> . 2016; Jan 19:1-10. [Epub ahead of print]
Journal Article	Newman M, Blum S, Scott JG, Wilson R, Prain K, Wong R, & Gillis D. Autoimmune Encephalitis. <i>Intern Med J</i> . 2016; 46(2): 148-57.
Journal Article	Ng F & Bruxner G . Flying under the radar: first hospitalisation with anorexia nervosa at age 54. <i>MJA</i> . 2016; 204 (9):347 DOI 10.5694/mja15.01396
Journal Article	Ng F, Scott JG & Bruxner G . Antineuronal antibody screening in early onset-cognitive decline. <i>Aust NZ J Psychiatry</i> , (accepted November 2016.)
Journal Article	Nguyen VT, Breakspear M, Hu X & Guo CC. The integration of the internal and external milieu in the insula during dynamic emotional experiences. <i>Neuroimage</i> . 2016; 124(Pt A): 455- 463. DOI: 10.1016/j.neuroimage.2015.08.078
Journal Article	Nguyen VT, Sonkusare S, Stadler J, Hu X, Breakspear M & Guo CC. Distinct cerebellar contributions to cognitive-perceptual dynamics during natural viewing. <i>Cerebral Cortex</i> . 2016; DOI: 10.1093/cercor/bhw334
Journal Article	Patel V, Chisholm D, Parikh R...Scott JG et al., Addressing the burden of mental, neurological, and substance use disorders: key messages from Disease Control Priorities, 3rd edition. <i>Lancet</i> . 2016; 387(10028), 1672-1685.
Journal Article	Pathé M , Haworth D, Lowry T . Mitigating the risk posed by fixated persons at major events: A joint police-mental health intelligence approach. <i>J Policing, Intelligence & Counter Terrorism</i> . 2016; 11(1), 63-72. DOI:10.1080/18335330.2016.1161226.
Journal Article	Pathé M, Lowry T , Haworth D, Winterbourne P. & Day L . Public Figure Fixation: Cautionary Findings for Mental Health Practitioners. <i>Behavioral Sciences & Law</i> . 2016; 34(5), 681-695.
Journal Article	Patterson S, Freshwater K, Goulter N, Leamon B, Choudhary A, Moudgil V, & Emmerson B . Psychiatrists' follow-up of identified metabolic risk: A mixed methods analysis of outcomes and influences on practice. <i>BJPsych Bull</i> . 2016; 40(5), 249-255. doi: 10.1192/pb.bp.114.049379.
Journal Article	Patterson S , Weaver T & Trite J. Understanding the impact of involvement in research on service users' views about, and use of, mental health services: A survey of service user researchers in the United Kingdom. <i>Ment Health Addict Research</i> . 2016; 1(3): 47-51 doi: 10.15761/MHAR.1000112
Journal Article	Pickering JW, Greenslade JH, Cullen L, Flaws D , et al., Validation of presentation and 3 h high-sensitivity troponin to rule-in and rule-out acute myocardial infarction. <i>Heart</i> . 2016; Mar 8:heartjnl-2015.
Journal Article	Perich T, Hadzi-Pavlovic D, Frankland A, Breakspear M . et al., Are there subtypes of bipolar depression? <i>Acta Psychiatr Scand</i> . 2016; 134(3):260-267. DOI: 10.1111/acps.12615
Journal Article	Pleaver S, McCarthy I , Anzolin M, Emmerson B & Khatun B. A Collaborative Approach to improve the assessment of physical health in adult consumers of Queensland Mental Health Services. <i>Aust Psychiatry</i> . 2016; 24(1) 55-61.
Journal Article	Pritchard M, de Dassel T, Beller E, Bogossian F, Russo S, Johnstone L & Scott JG . Autism in Toddlers Born Very Preterm. <i>Pediatrics</i> . 2016; 137(2):e20151949. doi: 10.1542/peds.2015-1949.
Journal Article	Puckett AM, Aquino KM, Robinson PA, Breakspear M , Schira MM. The spatiotemporal hemodynamic response function for depth-dependent functional imaging of human cortex. <i>Neuroimage</i> . 2016; 139: 240-248. DOI: 10.1016/j.neuroimage.2016.06.019
Journal Article	Rippey J, Carr PJ, Higgins N et al., Predicting and preventing peripheral intravenous cannula insertion failure in the Emergency Department. Clinician "gestalt" wins again', <i>Emergency Medicine Australasia</i> . 2016 doi:10.1111/1742-6723.12695
Journal Article	Roberts A, Perry A, Lord A... & Breakspear M Structural dysconnectivity of key cognitive and emotional hubs in young people at high genetic risk for bipolar disorder. <i>Molecular Psychiatry</i> . DOI: 10.1038/mp.2016.216
Journal Article	Roberts JA, Perry A, Lord AR ... Breakspear M . The contribution of geometry to the human connectome. <i>NeuroImage</i> 124: 379-393. DOI: 10.1016/j.neuroimage.2015.09.009

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Journal Article	Roberts JA, Perry A, Roberts G, Mitchell PB & Breakspear M . Consistency-based thresholding of the human connectome. <i>Neuroimage</i> . 2016; DOI: 10.1016/j.neuroimage.2016.09.053
Journal Article	Roberts G, Wen W, Frankland A... Breakspear M & Mitchell PB. Interhemispheric white matter integrity in young people with bipolar disorder and at high genetic risk. <i>J Psychological Medicine</i> 2016; 46(11): 2385-2396. DOI: 10.1017/S0033291716001161
Journal Article	Sanders S, Flaws D , Than M, Pickering J, Doust J, Glasziou P. Simplification of a scoring system maintained overall accuracy but decreased the proportion classified as low risk. <i>Journal of Clinical Epidemiology</i> , 69:32-39. doi: 10.1016/j.jclinepi.2015.05.006
Journal Article	Sanders S, Flaws D , Than M et al., Simplification of a scoring system maintained overall accuracy but decreased the proportion classified as low risk. <i>J Clin Epidemiology</i> . 2016 Jan 31;69:32-9.
Journal Article	Scott JG, Connell M . et al., Hallucinations in Adolescents and Risk for Mental Disorders in Adulthood: Prospective Evidence From the MUSP Birth Cohort Study. <i>Aust N Z J Psychiatry</i> ; 2016; 50, 129.
Journal Article	Scott JG, Gillis D, Hargovan H et al., The Prevalence of Autoimmune Encephalitis in Patients Presenting with First-Episode Psychosis. <i>ANZ J Psychiatry</i> . 2016; 50, 128.
Journal Article	Scott JG . Childhood antecedents of schizophrenia: Will understanding aetiopathogenesis result in schizophrenia prevention? <i>Soc Psychiatry Psychiatr Epidemiol</i> . 2016; (Epub ahead of print 31/01/2016)
Journal Article	Stephan KE, Bach DR, Fletcher PC ... Breakspear M . Charting the landscape of priority problems in psychiatry – Part I: Nosology and diagnosis. <i>Lancet Psychiatry</i> . 2016; 3: 77-84. DOI: 10.1016/S2215-0366(15)00361-2
Journal Article	Stephan KE, Binder EB, Breakspear M , ..., Friston KJ. Charting the landscape of priority problems in psychiatry – Part II: Pathogenesis and aetiology. <i>Lancet Psychiatry</i> . 2016; 3: 85-90. DOI: 10.1016/S2215-0366(15)00360-0
Journal Article	Suetani S, Saha S, Milad A, Eakin E, Scott JG & McGrath JJ. Common mental disorders and recent physical activity status: findings from a National Community Survey. <i>Soc Psychiatry Psychiatr Epidemiol</i> . 2016; Nov 10. [Epub ahead of print]
Journal Article	Suetani S, Rosenbaum S, Scott JG , Curtis J & Ward P. Bridging the Gap: What have we done, and what more can we do to reduce the burden of avoidable death in people with psychotic illness? <i>Epidemiol Psychiatr Sci</i> . 2016; (Epub ahead of print 16/01/2016)
Journal Article	Suetani S, Saha S, Milad A, Eakin E, Scott JG, & McGrath JJ. Common mental disorders and recent physical activity status: findings from a National Community Survey. <i>Soc Psychiatry Psychiatr Epidemiol</i> . 2016; Nov 10. [Epub ahead of print]
Journal Article	Suetani S, Waterreus V, Morgan D, Foley C, Scott JG ... McGrath, J. Correlates of physical activity in people living with psychotic illness. <i>Acta Psychiatr Scand</i> . 2016;134(2):129-37.
Journal Article	Thomas EG, Spittal MJ, Heffernan EB , Taxman FS, Alati R and Kinner S. Trajectories of psychological distress after release: implications for mental health service need in ex-prisoners. <i>Psychological Medicine</i> . 2016; 46 (3):611-621
Journal Article	Thomas HJ, Connor JP, Baguley CM, Scott JG . Two sides to the story: Adolescent and parent views on harmful intention in defining school bullying. <i>Aggress Behav</i> . 2016 Dec 20. doi: 10.1002/ab.21694. [Epub ahead of print]
Journal Article	Thomas H, Chan G, Scott JG et al., Association of different forms of bullying victimisation with adolescents' psychological distress and reduced emotional wellbeing. <i>ANZ J Psychiatry</i> . 2016; 50(4), 371-9
Journal Article	Turner J . Taking heart when your heart sinks: understanding determinants of behaviour. <i>Pathways, Canadian Lympeidema Magazine</i> . 2016; DOI 10.1007/s11764-015-0512-5
Journal Article	Vos T... Scott JG ... et al., et al., (2016). Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. <i>Lancet</i> , 388(10053), 1545-1602.
Journal Article	Ward W . 50,000 at a Funeral. <i>New Philosopher</i> . 2016.
Journal Article	Wirsich J, Perry A, Ridley B ... Breakspear M , Jirsa V & Guye M. Whole-brain analytic measures of network communication reveal increased structure-function correlation in right temporal lobe epilepsy. <i>Neuroimage Clinical</i> . 2016; 11: 707-718. DOI:10.1016/j.nicl.2016.05.010
Journal Article	Wyder M, Crompton D, Erickson K, Emmerson B , & De Leo D. Contact with Mental Health Services Before Suicide: A Review of the Evidence. <i>Aust Psychiatry</i> . (in press)
Journal Article	Young S, Praskova A , Hayward N & Patterson S . Attending to physical health in mental health services in Australia: A qualitative study of service users' experiences and expectations. <i>Hlth Soc Care Comm</i> . 2016 doi: 10.1111/hsc.12349.
Journal Article	Zalesky A, Fornito A, Cocchi L, Gollo LL, van den Heuvel MP & Breakspear M . Connectome sensitivity or specificity: which is more important? <i>Neuroimage</i> . 2016; 142: 407-420. DOI: 10.1016/j.neuroimage.2016.06.035
Scientific correspondence	Allison S, Rose CA, Scott JG , Roeger L & Bastiampillai T. (2016) A research agenda for childhood bullying. <i>The Lancet Psychiatry</i> , 3(1):e1-2.
Scientific correspondence	Johnson JC, Scott JG, & Jess N . (2016). Assessing the effectiveness of pharmacotherapy for obsessive-compulsive disorder. <i>The Lancet Psychiatry</i> , 3(11), e16.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Scientific correspondence	McFadden M, Gordon A, Leong G, Ward D, & Scott JG (2016). Pancreatitis associated with metformin used for management of clozapine-related weight gain. <i>Australian and New Zealand Journal of Psychiatry (ANZJP)</i> . doi: 10.1177/0004867416631830
Scientific correspondence	Young S, Praskova A, Hayward N & Patterson S, (2016). Attending to physical health in mental health services in Australia: A qualitative study of service users' experiences and expectations. <i>Health and Social Care in the Community</i> . doi: 10.1111/hsc.12349.
Book	Fitzgerald J & Byrne GJ , eds, (2016). <i>Psychosocial Dimensions of Medicine</i> , IP Communications, Melbourne, 2016 (ISBN 978-0-9925181-8-9)
Book Chapters	Byrne GJ Anxiety in Late Life, In <i>Mental Health and Illness of the Elderly</i> (Chiu H, Shulman K, Ames D, eds) Springer Nature, Singapore (On-line publication - doi: 10.1007/978-10-0370-7_13-1)
Book Chapters	Byrne GJ Personality, Chapter 7, pp 90-104, In <i>Psychosocial Dimensions of Medicine</i> (Fitzgerald J & Byrne GJ, eds) IP Communications, Melbourne, 2016 (ISBN 978-0-9925181-8-9)
Book Chapters	Byrne GJ The Patient in Psychosocial Context: Person-Centred versus Family-Centred Care, Chapter 2, pp 19-28, In <i>Psychosocial Dimensions of Medicine</i> (Fitzgerald J & Byrne GJ, eds) IP Communications, Melbourne, 2016 (ISBN 978-0-9925181-8-9)
Book Chapters	Patel V, Chisholm D, Parikh R... Scott JG et al., (2016). Global Priorities for Addressing the Burden of Mental, Neurological, and Substance Use Disorders. In V. Patel, D. Chisholm, T. Dua, R. Laxminarayan & M. E. Medina-Mora (Eds.), <i>Mental, Neurological, and Substance Use Disorders: Disease Control Priorities, Third Edition (Volume 4)</i> . Washington (DC): The International Bank for Reconstruction and Development / The World Bank
Book Chapters	Pathé M . Stalking Public Figures: The Fixated Loner. In Petherick, W. & Sinnamon D. (Eds.) <i>The Psychology of Crime and Antisocial Behaviour</i> . Elsevier Science, 2016
Book Chapters	Scott JG , Mihalopoulos C, Erskine HE, Roberts J & Rahman A. (2016). In: Patel V, Chisholm D, Dua T, Laxminarayan R, Medina-Mora ME, editors. <i>Mental, Neurological, and Substance Use Disorders: Disease Control Priorities, Third Edition (Volume 4)</i> . Washington (DC): The International Bank for Reconstruction and Development / The World Bank; 2016 Mar 14. Chapter 8
Book Chapters	Scott JG , Mihalopoulos C, Erskine HE, Roberts J, & Rahman A. (2016). Childhood Mental and Developmental Disorders. In V. Patel, D. Chisholm, T. Dua, R. Laxminarayan & M. E. Medina-Mora (Eds.), <i>Mental, Neurological, and Substance Use Disorders: Disease Control Priorities, Third Edition (Volume 4)</i> . Washington (DC): The International Bank for Reconstruction and Development / The World Bank
Book Chapters	Scott JG , Ross C, Dorahy M, Read J & Schäfer I. (In Press) Childhood Trauma in Psychotic and Dissociative Disorders. In A. Moskowitz, I. Schafer, & M. Dorahy (Eds.) <i>Psychosis, Trauma and Dissociation 2nd Ed</i> . West Sussex Wiley- Blackwell.
Book Chapters	Ward W Deep Brain Stimulation for Patients with Eating Disorders. <i>Encyclopedia of Feeding and Eating Disorders</i> , 2016 PP 1-4, DOI 10.1007/978-981-287-087-2_208-1.
Book Chapters	Ward W . General Practitioner, Role of, <i>Encyclopedia of Feeding and Eating Disorders</i> , PP 1-5, DOI 10.1007/978-981-287-087-2_209-1
Commissioned report	Davidson F . (2016) Key Performance Indicators for Australian Court Liaison Services, www.offenderhealth.net.au/sites/default/files/CLS%20Performance%20Framework%20and%20Measures%202016.pdf
Commissioned report	Quirk A, Chee S, Patterson S , ...& Crawford M (2016) An Evaluation of the Implementation of the Lester Tool 2014 in Psychiatric Inpatient Settings. London: Royal College of Psychiatrists.
Commissioned report	Souza R, Patterson S , Gandesha A, McGeorge M, Quirk A, Crawford M (2016) Modelling the interface between primary care and specialist mental health services: A tool for commissioning. London: Royal College of Psychiatrists.

2015 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Avery N . A role for psychologists – improving health behaviour and physical health outcomes for people with Severe Mental illness. RBWH Healthcare Symposium. Brisbane, September 2016.
Oral	Avery N . Physical Health in Public Mental Health Care: Qualitative study employing COM-B model to describe views and practices of Australian psychologists. CAHRLI Forum. Brisbane, June 2016.
Oral	Avery N . Physical Health in Public Mental Health Care: Qualitative study employing COM-B model to describe views and practices of Australian psychologists. TPCH Research Forum. Brisbane, October 2016.
Oral	Bennett E & Whitford J . Left holding the baby. ACMHN 42nd International Mental Health Nursing Conference; Adelaide Convention Centre, October 25-27th 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Bicker S & Vallelonga V. Sensory Modulation and MOHO. A proposed clinical pathway for delivering sensory modulation within an acute inpatient mental health unit. NT/QLD OT Conference, Brisbane, October 28th 2016.
Oral	Breakspear M. A Fokker Planck for the Brain. Cognitive Neuroscience Society (CNS). New York, USA, April 2 nd -5 th 2016.
Oral	Breakspear M. Brain Connectivity Workshop (BCW 2016). Marseille, France, June 22 nd -24 th 2016.
Oral	Breakspear M. Brain waves and chimera states: Mechanisms of cortical meta-stability. Yale Workshop on Brain Connectivity. Whistler, Canada, March 6 th -9 th 2016.
Oral	Breakspear M. Computational Models of Brain Activity. MatLab Conference. Brisbane, May 2016.
Oral	Breakspear M. From Simplicity to Complexity: Complex Systems Across Science. World Science Festival. Brisbane, March 9 th - 13 th 2016.
Oral	Breakspear M. Institute Of Neurology London Brain Meeting. London, UK, April 8th 2016.
Oral	Breakspear M. Nonlinear models of large-scale brain activity. Australasian Cognitive Neuroscience Society (ACNS 2016). Newcastle, Australia, January 24 th -27 th 2016.
Oral	Breakspear M. Organisation for Human Brain Mapping (OHBM 2016). Geneva, Switzerland, June 26th -30th 2016.
Oral	Breakspear M. Prospective Imaging Study of Ageing and Dementia. NHMRC National Institute for Dementia Research Inaugural meeting. Brisbane, May, 1 st -3 rd 2016.
Oral	Breakspear M. Sa2a Geometric constraints and dynamic consequences of the human connectome. 9th Dynamics Days Asia-Pacific (DDAP9). Hong Kong, China, December 14 th -17 th 2016.
Oral	Breakspear M. Structural, functional and effective connectivity in affective disorders. Brain & Mind Symposium. Helsinki, Finland, September 15 th -16 th 2016.
Oral	Breakspear M. Using neuroimaging to understand brain network disturbances in psychiatry. Biological Psychiatry Society. Newcastle, Australia, October 13 th -14 th 2016.
Oral	Brown J. Enhancing cultural inclusive practice within acute mental health settings through the delivery of alcohol and drug groups. THMHS Conference. Auckland, New Zealand, August 26 th 2016
Oral	Carr PJ, Higgins NS et al., The vascular access specialist team is a superior model for device insertion and management: You will need level 1 evidence for that. Association for Vascular Access (AVA) 30th Annual Scientific Meeting, Orlando, Florida, USA. September 16 th -19 th 2016
Oral	Cartwright H. Partnerships with police, ambulance officers and emergency department clinicians. ACMHN 42nd International Mental Health Nursing Conference; Adelaide. October 25th-27th 2016.
Oral	Clugston B. Diversionary options under Queensland's new Mental Health Act. Griffith University Forensic Mental Health Forum. Brisbane, July 14 th 2016.
Oral	Clugston B. Australian prison mental health services. RANZCP Faculty of Forensic Psychiatry 2016 Conference. Freemantle, September 9 th 2016.
Poster	Collyer B, Hiscox C & Guardascione G. Navigating distractions during medication rounds to avoid the mine field of error and adverse events. ACMHN 42nd International Mental Health Nursing Conference; Adelaide. October 25 th -27 th 2016.
Oral	Coyne E, Johnston A, Mitchell M, Weeks B, Shuker M, Higgins N and Massey D. Nursing students positively evaluate video exemplars of Objective Structured Clinical Assessments. 6 th International Nurse Education Conference. Brisbane, April 2016.
Oral	Dalton J. A hopeful and helpful letter. The Australian and New Zealand Academy of Eating Disorders Conference 2016 (ANZAED). Christchurch, New Zealand, August 26 th 2016.
Oral	Davidson F. Mental health diversion in Australia: The benefits of cross border collaboration for court based forensic mental health services. Griffith University Forensic Mental Health Forum. Brisbane, July 14 th 2016.
Oral	Davidson F. The national court liaison services benchmarking project. NMHMR Centre of Research Excellence in Offender Health Symposium. Sydney, November 18 th 2016.
Oral	Davidson F. Mental health diversion in Australia: How effective are court liaison services? RANZCP Faculty of Forensic Psychiatry 2016 Conference. Freemantle, September 9 th 2016.
Oral	Davidson F & Morse M. The unique and evolving role of Australian mental health nurses in Courts. ACMHN's 42 nd International Mental Health Nursing Conference. Adelaide, September 2016.
Oral	Fawcett L, Higgins N, et al., Staff perceptions of Safewards across three inpatient mental health units. ACMHN 42 nd International Mental Health Nursing Conference; Adelaide, October 25 th -27 th 2016.
Oral	Flaws D. Developing and Implementation of the EDACS Chest Pain Protocol. HSRAANZ Symposium and AGM. Brisbane, December 1 st 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Fleming C. Introduction to Eating Disorders. Annual Meeting of the National Eating Disorders Collaboration of Australia. Brisbane, July 17 th 2016.
Guest Lecture	Fleming C. Skill-based training for professional utilizing a cognitive behavioural self help manual. Victorian Centre of Excellence in Eating Disorders. Guest lecture. Melbourne, 25 th - 26 th February 2016.
Oral	Fleming C. Working with Families Affected by Eating Disorders. Regional Forum for the National Eating Disorders Collaboration of Australia. Tasmania, February 11 th 2016.
Oral	Green B. Belief and mass murder: An analysis of Anders Brevik's declaration. 36 th ANZAPPL Annual Congress. Auckland, New Zealand, November 26 th 2016.
Oral	Hall K & Boyle C. Lived and learning: co-facilitation education model. ACMHN 42 nd International Mental Health Nursing Conference. Adelaide, October 25 th -27 th 2016.
Poster	Hall K, McDuff B, Dalton J & Buda M. Facilitating career growth for new graduates. ACMHN 42 nd International Mental Health Nursing Conference; Adelaide, October 25 th -27 th 2016.
Oral	Heffernan E. Mental illness, police and communications. Griffith University Forensic Mental Health Forum. Brisbane, July 14 th 2016.
Oral	Heffernan E. The mentally ill and the criminal justice system: opportunities and challenges. 36 th ANZAPPL Annual Congress. Auckland, New Zealand, November 26 th 2016.
Oral	Heffernan E. The mentally ill in custody: An unnecessary recruitment of adversity. Improving Health and Social Outcomes for Prisoners and Young Offenders. Evidence and Partnerships, Brisbane, February 16 th 2016.
Oral	Heffernan E & Davidson F. Trauma and PTSD among Aboriginal and Torres Strait Islander women in custody. RANZCP Faculty of Forensic Psychiatry 2016 Conference. Freemantle, 10 th September 2016.
Poster	Higgins N. Vessel finder technology to assist peripheral cannulation for ECT. ACMHN 42 nd International Mental Health Nursing Conference; Adelaide Convention October 25-27 th 2016.
Oral	Higgins N & Meehan T. Safewards model – Collaborative research Metro North and West Moreton. Department of Health Occupational Violence Forum, Royal Brisbane and Women's Hospital. Brisbane, March 21 st 2016.
Oral	Keogh S, Marsh N, Davies K, Higgins N and Rickard C. A time and motion study of peripheral venous catheter flushing practice using manually prepared and pre-filled syringes. The Australian Vascular Access Society. Brisbane, April 2016.
Oral	Moudgil V & Park M. An overview of the clinical, therapeutic and practice updates, new medicines, new indications for known medicines, safety updates, and upcoming medicines/devices for the area of Mental Health. QLD Annual Medicines Update 2016: Clinical and Practice Update - Mental Health. Brisbane, October 23 rd 2016.
Oral & Poster	Newell J, Darbyshire C & Karamchedu B. Imagine music therapy and Safewards Mutual Help. ACMHN 42 nd International Mental Health Nursing Conference. Adelaide, October 25-27 th 2016.
Poster	Newell J, Sargent K & Snoswell C. Is removing the right of consumers to smoke, justified? ACMHN 42 nd International Mental Health Nursing Conference. Adelaide, October 25-27 th 2016.
Oral	Palmquist L, Patterson S , O'Donovan A & Bradley G Roller Coaster Under Construction: A journey of adolescent recovery. Recovered Futures (2016 AsPac International Mental Health Conference. Brisbane, October 25 th 2016.
Oral	Pathé M. Fixation and grievance fuelled violence: Preventing the unpredictable. 36 th ANZAPPL Annual Congress. Auckland, New Zealand, November 23 rd 2016.
Oral	Pathé M. Managing the fixated threat in Australia: Communication, co-ordination and collaboration. National Fixated Threat Assessment Conference. Brisbane, 28 th April 2016.
Oral	Pathé M. Expanding the model: The emerging nexus between fixated loners and lone actor terrorists. National Fixated Threat Assessment Conference. Brisbane, 28 th April 2016.
Oral	Pathé M. Sovereign Citizens: Conspiracy, contagion and domestic terrorism. 36 th ANZAPPL Annual Congress. Auckland New Zealand, November 24 th 2016.
Oral	Phillips J. Competency based training in forensic psychiatry. RANZCP Faculty of Forensic Psychiatry 2016 Conference. Freemantle, September 9 th 2016.
Oral	Prentice, K. The forgotten party: Victims of violent crime by offenders diverted to forensic mental health systems. North and South Queensland Social Work Conference. Brisbane, November 25 th -26 th 2016.
Poster	Roberts M , Lee A and Kretschmann T A Place at the Table? Valuing peer support in the treatment of eating issues. Australian and New Zealand Academy of Eating Disorders Annual Conference. Christchurch New Zealand, August 26 th - 27 th 2016.
Oral	Russell A and Dark J. OT Australia Qld/NT State conference held at the Brisbane Convention and Exhibition Centre on 28 th Oct 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited	Scott JG. Antipsychotic medication in the management of Early Psychosis. Queensland Branch of the RANZCP Faculty of Child and Adolescent Psychiatry Annual Conference. Invited Plenary. Gold Coast, 2016.
Oral	Scott JG. Auto immune encephalitis. A cause of psychosis. Grand Rounds: Top End Mental Health Services. Darwin, February 26 th 2016.
Oral	Scott JG. Autoimmune Encephalitis: What Psychiatrists need to know. Psychiatry Education Day. Brisbane, August 13 th 2016.
Oral	Scott JG. Bullying: A Modifiable Risk Factor for Mental Illness. PDN School Leaders Forum. Brisbane, March 9 th 2016.
Invited	Scott JG Hallucinations experienced by people living in the General Population. Queensland Hearing Voices Community Voices of Recovery Conference. Invited Keynote, Brisbane, July 12 th 2016.
Oral	Scott JG. Psychopharmacology for children and adolescents. Australian Psychological Society (Qld Branch). Brisbane, May 27 th 2016.
Oral	Scott JG. Queensland Research Update: Child and Youth Mental Health Update. BDHP Mental Health Research Update. Brisbane, May 27 th 2016.
Oral	Scott JG The Clinical Use of antipsychotics in young people with early psychosis. Child Psychiatry Grand Rounds, Health Promotion Board Singapore General Hospital. Singapore, November 29 th 2016.
Oral	Scott JG Use of antipsychotics in patients with early psychosis. Sunshine Coast Mental Health and Addiction Services Grand Rounds. Nambour, September 28 th , 2016.
Oral	Scott JG Use of LAI medication in managing early psychosis. Psychopharmacology in Schizophrenia. Canberra, February 17 th 2016.
Oral	Scott JG, Connell M et al., Hallucinations in Adolescents and Risk for Mental Disorders in Adulthood: Prospective Evidence from the MUSP Birth Cohort Study. Royal Australian and New Zealand College of Psychiatrists (RANZCP) Congress. Hong Kong, May 8 th – 12 th 2016.
Oral	Scott JG et al., The Prevalence of Autoimmune Encephalitis in Patients Presenting with First Episode Psychosis. Royal Australian and New Zealand College of Psychiatrists (RANZCP) Congress. Hong Kong, May 8 th – 12 th 2016.
Oral	Turner J. The lived experience of breast-cancer related lymphoedema. Clinical Oncology Society of Australia Annual Scientific Meeting. Gold Coast, November 16 th – 18 th 2016.
Oral	Turner J. Can you really "conquer" fear of cancer recurrence. Clinical Oncology Society of Australia Annual Scientific Meeting. Gold Coast, November 16 th – 18 th 2016.
Oral	Turner J. Supportive care for patients with advanced disease. Clinical Oncology Society of Australia Annual Scientific Meeting. Gold Coast, November 16 th – 18 th 2016.
Oral	Turner J. Can guidelines be adapted for low and middle-income countries? International Psycho-Oncology Society World Congress. Dublin Ireland, October 17 th – 21 st 2016.
Oral	Turner J. Helping parents with advanced cancer to talk with their children. International Psycho-Oncology Society World Congress. Dublin, Ireland, October 17 th – 21 st 2016.
Oral	Turner J. A novel therapy for fear of cancer recurrence. International Psycho-Oncology Society World Congress, Dublin Ireland, 17 th – 21 st October 2016.
Oral	Turner J. Can you really "conquer" fear of cancer recurrence? International Psycho-Oncology Society World Congress. Dublin, Ireland, October 17 th – 21 st 2016.
Oral	Turner J. Coping with a diagnosis of secondary Breast Cancer. Breast Cancer Network of Australia Education Forum. Brisbane, August 23 rd 2016.
Oral	Turner J. Emotional impact of early breast cancer. Breast Cancer Network of Australia Education Forum. Brisbane, August 23 rd 2016.
Oral	Turner J. Innovative approaches to psychosocial care. Cancer Institute NSW Innovations conference and Hospital Alliance for Research Collaboration forum. Sydney, August 14 th – 16 th 2016.
Oral	Turner J. Masterclass: addressing needs and innovative models of care. Cancer Institute NSW Innovations conference and Hospital Alliance for Research Collaboration forum. Sydney, August 14 th – 16 th 2016.
Oral	Turner J. The value proposition of good psychosocial care. Cancer Institute NSW Innovations conference and Hospital Alliance for Research Collaboration forum. Sydney, August 14 th – 16 th 2016.
Oral	Turner J. (2016). Cancer care for the whole patient: Contributions from psycho-oncology. UQCCR lecture series. Brisbane, August 9 th 2016.
Oral	Turner J. Psychosocial aspects of cancer. RANZCP trainees. Tasmania, Hobart, July 20 th 2016.

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Turner J. Taking heart when your heart sinks: Communication challenges in the care of the patient with lymphoedema. Asia-Pacific Lymphology Conference. Darwin, May 27 th 2016.
Oral	Turner J. Psychosocial aspects of care during treatment for breast cancer. Australian Institute of Radiography National Conference. Brisbane, April 22 nd 2016.
Oral	Turner J. A matter of life and death: The spectrum of psychosocial care for those who survive and those who die from cancer. Cannan Institute Speaker Series. Brisbane, March 21 st 2016.
Oral	Turner J. Health professionals and self-care. West Moreton and Health Service Social Work Forum. Ipswich, 16 th March
Oral	Turner J. Coping with a diagnosis of prostate cancer. Prostate Cancer Support Group meeting. Brisbane, March 9 th 2016.
Oral	Turner J. Depression – a modern epidemic. Centre for Palliative Care Research and Education Update program. Brisbane, March 11 th 2016.
Oral	Ward W. Introduction to the medical management of eating disorders. Capitalising on the future. ANZAED Autumn Workshop Series. Canberra, March 11 th -14 th 2016.
Oral	Ward W. Reconfiguring general health services to meet the needs of adults with anorexia nervosa. 3 rd Eating Disorders and Obesity Conference, Gold Coast, May 17 th 2016.
Oral	Waterson E, Perrin M & Davidson F. The urgent versus the important: Complexities of prison mental health service delivery. RANZCP Faculty of Forensic Psychiatry 2016 Conference. Fremantle, September 9 th 2016.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Metro North Mental Health (RBWH)	93	11	172	5



Nursing and Midwifery



Adj. Assoc. Prof. Alanna Geary
Executive Director
Nursing and Midwifery Services MNHHS

I am delighted to report a number of significant research outcomes for the year. During 2016 six nurses were chief investigators on successful RBWH Research Foundation project grants and many more were named as associate investigators. One of only three available postdoctoral fellowship grants was awarded to a nurse and a further five nurses received Scholarships to support their higher research degrees. These awards represent an enormous expansion and interest in research by nurses and midwives at the RBWH. The impact of nurse/midwifery led research was also evident in our publications record, which is outlined in the Research Centre report.

These outcomes are the reason that Nursing and Midwifery Services continues to support nurse and midwifery led research that focuses on improving patient care. It is perhaps because of this focus that our trials consistently meet our recruitment targets, whereas evidence from other publically funded trials show that approximately 70% of recruitment targets fail to be met. Barriers to recruitment may be at a patient, clinician or organisation level. Our nurse researchers have worked hard to establish a level of trust with patients, many of whom are repeat participants in our trials. Over the years, we have also gained enthusiastic support from nurses, midwives and other health care professionals, across all service lines for our clinical research. In addition, our dedicated project managers have expertise and the necessary endurance to negotiate organisational barriers in a timely manner. Our high completion success rate is underpinned by these factors.

Our commitment to research is demonstrated by the creation of new research positions. For example, in 2016 we began negotiations with Griffith University to establish a joint, Research Fellow in position in Vascular Access. The offer from Griffith University to partner with us was in recognition of our dedication to nurse and midwifery led research and our outstanding research record in this area. A focus on intravenous access devices and dressings not only benefits RBWH patients but also brings financial benefits to the organisation. For example, funding from our multiple NHMRC and other research grants has covered the costs of thousands of IV dressings that are tested in trials. In addition, our highly skilled research staff place hundreds of peripheral catheters each year. A peripheral catheter replacement has been costed at up to \$125 for supplies and clinician time, so savings to the organisation are significant.

We look forward to continuing our support of nursing and midwifery led research 2017.

Nursing and Midwifery Research Centre



Professor Joan Webster
Nursing Director, Research Centre

The primary aim of the Nursing and Midwifery Research Centre is to generate best evidence for acute healthcare practice. We achieve this through conducting interdisciplinary, independently funded clinical trials and cohort studies that focus on improving patient outcomes; and by producing Cochrane systematic reviews. We prioritise areas identified by the Australian Commission on Health Care Standards, such as 'Preventing and Controlling Health Care Infections' and Preventing and Managing Pressure Injuries. For example, during 2016, a number of pressure injury studies were undertaken in ICU, we also completed an NHMRC funded trial, a large cohort study and several pilot studies assessing the impact of intravascular access securement devices on the incidence of catheter-related infections. The pilot studies informed our 2017 NHMRC project grant applications. During 2016 we continued with our NHMRC funded trial testing the effectiveness of negative pressure wound therapy on surgical site infection, among other smaller trials. These studies and others demonstrate our emphasis on improving patient outcomes by focussing on clinically important questions, generated by problems in the delivery of acute health care. Our work in these areas, particularly in the area of intravenous access, continues to be internationally influential internationally.

In 2016, our new joint Professorial positions (Professor Fiona Coyer and Professor Theresa Green) provided a welcome expansion to our senior research team. Along with other honorary research positions, our combined track record demonstrates our strong group collaboration and provides evidence of our individual contributions to the overall output of the Nursing and Midwifery Research Centre's program of research. Our track record during 2016 continued to grow with staff from the unit involved in 11 successful research grants and 29 publications. We also have 15 active Cochrane reviews of health-care interventions, which are updated every two years. These outcomes could not be achieved without broad, interdisciplinary collaboration within our health service and across local, national and international institutions.

Our other focus is on the development of a research culture amongst nurses and midwives. This is achieved in a number of ways: 1) our highly skilled staff provide supervision for higher degree students; 2) nurses and midwives from clinical areas act as research nurses and, through such exposure, frequently go on to enrol in a higher degree; 3) we conduct a 12-week 'Evidence Base Practice' training program in which students complete a systematic review of a clinical problem, which is relevant to their area of practice. Many of these students go on to present their reviews at national conferences and a number have used the information from the review to change practice in their area; 4) each month we coordinate the 'Nursing and Midwifery Grand Rounds', in which results of research studies are presented; 5) we provide support, mentorship and expertise to assist novice researchers prepare research proposals and publications.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nicole Marsh	PhD Griffith University (2015 – 2018)	Prevention of peripheral venous catheter failure	Claire Rickard, Joan Webster , Marie Cooke
Emily Larsen	Graduate Diploma, Griffith University (2013-2016)	The patient experience of peripheral IV insertion within a tertiary hospital setting.	Samantha Keogh, Claire Rickard
Julie Flynn	PhD, Griffith University (2016-2018)	Decontamination of central venous catheter needleless connectors.	Claire Rickard, Li Zhang, Samantha Keogh
Hajar Alasmari	PhD, Queensland University of Technology (2012-2017)	Examining Intensive Care Nurses' Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia	Prof Ann Bonner, Prof Fiona Coyer
Sonia Hines	PhD, Queensland University of Technology	An educational intervention to improve nurses' research literacy	Prof Joe Ramsbotham, Prof Fiona Coyer , Dr Erika Hepple
Naomi Tutticci	PhD, Queensland University of Technology (2013-2017)	Critical reflection by undergraduate nursing students in a High Fidelity Simulation: student verses academic facilitated reflection	Prof Fiona Coyer , Dr Peter Lewis, Prof Mary Ryan
Elsbeth Dunstan	Master of Nursing, Queensland University of Technology	Safety culture in two Australian tertiary hospital intensive care units: The Scath-ICU study	Prof Fiona Coyer
Nahla Tayyib	PhD, Queensland University of Technology (2012-2016)	Use of an interventional patient skin integrity care bundle in the intensive care unit to best manage skin integrity in the critically ill patient	Prof Fiona Coyer , Dr Peter Lewis
Rebecca Rashleigh-Rolls	Masters of Applied Science (Research), Queensland University of Technology (2013-2016)	An investigation of infection control interventions and their impact on hospital acquired infection rates	Prof Fiona Coyer , Dr Katie Page
Sandra Johnston	PhD, Queensland University of Technology	Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education	Prof Fiona Coyer , Prof Robyn Nash
Samantha Yeates	Masters of Applied Science (Research), Queensland University of Technology	Exploring tissue perfusion and healing trajectory of medical-device related pressure injuries	Prof Fiona Coyer , Kathleen Finlayson, Jill Campbell
Lizanne Dalgleish	Masters of Applied Science (Research), Queensland University of Technology	The role of microcirculatory dysfunction and skin breakdown in the critically ill.	Prof Fiona Coyer
Adrianna Hada	Masters of Applied Science (Research), Queensland University of Technology (2015-2017)	Transforming patient outcomes through improved and effective nursing clinical handover	Prof Fiona Coyer , Dr Leanne Jack
Paul Jarrett	Masters of Applied Science (Research), Queensland University of Technology (2015-2017)	Administration of antibiotics in the intensive care unit	Prof Fiona Coyer , Assoc Prof Martin Christensen, Prof Jason Roberts
Priscilla Pather	Masters of Applied Science (Research), Queensland University of Technology (2014-2017)	The incidence and measurement of incontinence associated dermatitis in the intensive care environment	Prof Fiona Coyer , Dr Leanne Jack
Hannah Rheault	Doctor Health Science, Queensland University of Technology (2014-2019)	Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: A mixed method study	Prof Ann Bonner, Prof Fiona Coyer
Leanne Stone	Doctor Health Science, Queensland University of Technology (2014-2019)	Comparing "Magnet" attributes in nursing between Australia and the United States	Prof Alexandra McCarthy, Prof Fiona Coyer
Bryan Gregory	Masters of Applied Science (Research), Queensland University of Technology (2016-)	The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury	Prof Fiona Coyer , Prof Jason Roberts, Prof Ann Bonner

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Jessica Ingleman	Masters of Applied Science (Research), Queensland University of Technology (2016-)	Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)	Prof Fiona Coyer , Dr Christina Parker
David McIntyre	Masters of Applied Science (Research), Queensland University of Technology (2016-)	Developing and validating haemodialysis nurse-sensitive indicators	Prof Ann Bonner, Prof Fiona Coyer
Cheryl Blaber	Masters of Applied Science (Research), Queensland University of Technology	The assessment and management of pain and suffering in persons with cognitive impairment approaching the end of life as inpatients within an acute tertiary facility	Prof Theresa Green
Pauline Nicholas	Masters of Applied Science (Research), Queensland University of Technology	Using brain training to improve cognition of patients on dialysis	Prof Theresa Green
Hue Thi Hoang	Masters of Nursing		Prof Theresa Green
Tain Lloyd	MappSci, QUT (2016-2020)	Investigation of stroke development in chronic kidney disease	Prof Ann Bonner/ Prof Theresa Green / Dr Ian Stewart/Dr Colin Solomon
Lan Van Huong	Doctor of Philosophy	Exploring of family support for people receiving haemodialysis therapy in Vietnam	Prof Theresa Green

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Nicole Marsh	Senior Project Manager	Numerous IV access trials	Griffith University (2007 – present)
Emily Larsen	Project Manager	Numerous IV access trials	Griffith University (2012 – present)
Julie Flynn	Project Manager	Numerous IV access trials	Griffith University (2011 – present)
Claire Rickard	Honorary Research Fellow	Numerous IV access trials	Griffith University (2007 – present)
Marie Cooke	Honorary Research Fellow	Numerous IV access trials	Griffith University (2016 – present)
Amanda Ullman	Honorary Research Fellow	Numerous IV access trials	Griffith University (2014 – present)
Anne Bonner	Honorary Research Fellow	No current active projects with Nursing Services	QUT 2011 – present)
Brigid Gillespie	Honorary Research Fellow	The DRESSING trial	Griffith University (2007 – present)
Samantha Keogh	Honorary Research Fellow	Optimising PIVC patency through implementation of best flushing practice	Griffith University (2011 – present)
Caroline Shelverton	Honorary Research Fellow	STEP WEDGE trial	Griffith University (2016 – present)
Niall Higgins	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2014 – present)
Carol Reid	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2013 – present)
Debbie Anderson	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2007 – present)
Gillian Ray-Barruel	Honorary Research Fellow	I-Decided: A clinical decision-making tool for intravenous catheter assessment and safe removal	Griffith University (2015 – present)
Pauline Calleja	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2015 – present)
Carol Windsor	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2016 – present)
Karen New	Honorary Research Fellow	No current active projects with Nursing Services	UQ (2014-present)
Monica Stankiewicz	Honorary Research Fellow	No current active projects with Nursing Services	Redcliffe Hospital (2014 – present)
Raymond Chan	Honorary Research Fellow	Nurse Navigator project	QUT/Metro North (2015 – present)
Sonya Osborne	Honorary Research Fellow	Nursing assessment project	QUT (2016 – present)
Kimberly Alexander	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2015 – present)
Karen Ousey	Adjunct Associate Professor	Skin perfusion and microcirculation in critically ill patients	QUT (2015-2017)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Nicole Marsh (Nursing and Midwifery Research Centre)	Joan Webster , Claire Rickard, Marie Cooke	REplacing Peripheral IntraVenous Catheters (REPLACE study)
Nicole Marsh (Nursing and Midwifery Research Centre)	Joan Webster , Claire Rickard, Marie Cooke	RELIable Intravenous Access By Line Experts (RELIABLE Trial)
Emily Larsen (Nursing and Midwifery Research Centre)	Nicole Marsh, Nicole Gavin, Julie Flynn, Joan Webster	CANCer caRE: The risk factors of vEnous access failuRE (CARETaKER Study)
Joan Webster (Nursing and Midwifery Research Centre)	Larsen E, Marsh N, Md Abu Choudhury Md Abu, Rickard C.	Chlorhexidine gluconate or polyhexamethylene biguanide disc dressing to reduce the incidence of Central-Line-Associated Blood Stream Infection: a feasibility randomised controlled trial (the CLABSI trial)
Joan Webster (Nursing and Midwifery Research Centre)	Northfield S, Marsh N, Larsen E, Rickard CM, Chan R	Inter-rater agreement of peripherally inserted central catheter insertion site condition between nurses and patients using the PICC-SAT
Joan Webster (Nursing and Midwifery Research Centre)	Larsen E, Booker C, Laws J, Marsh N.	Prophylactic insertion of large bore peripheral intravenous catheters in maternity patients: A cohort study
Emily Larsen (Nursing and Midwifery Research Centre)	Marsh N, Rickard C, Keogh S.	The patient experience of peripheral IV insertion within a tertiary hospital setting: The PINch study
Julie Flynn (Nursing & Midwifery Research Centre)	Rickard C, Keogh S, Zhang L.	Decontamination of central venous catheter needleless connectors: A pilot RCT.
Prof Theresa Green Ms Tara Hormann (Stroke)	Dr Tony Parker (QUT) Dr Jonathon Peake (QUT) A/Prof Gregory Bix (USA)	Characteristics of physical activity required to elevate circulating neuroprotective LG3 peptide as a novel stroke therapy.
Fiona Coyer Amanda Vann (CNC, ICU)	Nick Santamaria (Uni of Melbourne) Jane-Louise Cook (QUT) Nicola Barker-Gregory (NUM, ICU Redcliffe Hospital)	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a randomised controlled trial.
Fiona Coyer Anthony Holley (Intensive Care Medicine) Peter Thomas (Physiotherapy)	Christina Parker (QUT) Anna Doubrovsky (QUT) Chris Edwards (QUT) Jessica Ingleman (QUT)	The effect of time spent in a position on critically ill patient's skin: the EXTREME pressure 2 study.
Fiona Coyer Jill Campbell (Skin Integrity Service) Amanda Vann (Intensive Care Medicine) Greg McNamara (Intensive Care Medicine)	Jane-Louise Cook (QUT)	Translating evidenced-based pressure injury prevention into the intensive care environment; the SUSTAIN study.
Fiona Coyer Jill Campbell (Skin Integrity Service)		Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial
Fiona Coyer Robyn Fox (Nurse Education)	Alexandra McCarthy (QUT) Amanda Henderson (GU) Ramon Shaban (GU) Karen Theobald (QUT) Bernadette Thompson (PAH)	Academic-industry integration in health: Enhancing postgraduate professional learning.
Fiona Coyer Peter Slattery (Biomedical Engineering) Peter Thomas (Physiotherapy) Greg McNamara (Intensive Care Medicine)	Chris Edwards (QUT) Jessica Ingleman (QUT)	Extreme pressure study: exploring pressures, tissue reperfusion and body positioning – a pilot evaluation among critically ill patients

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Claire Rickard, Joan Webster , Raymond Chan, Peter Mollee, Geoffrey Playford, Li Zhang, Samantha Keogh, Evan Alexandrou, Marie Cooke, Alexandra McCarthy, Patricia Klieidon.	Joan Webster (Nursing and Midwifery Research Centre)	Peripherally InSerted Central catheter dressing and Securement: (the PISCES Trial)
Brigid Gillespie, Wendy Chaboyer, Joan Webster , David Ellwood, Jennifer Whitty, Luckman Thalib, Nicky Cullum.	Joan Webster (Nursing and Midwifery Research Centre)	Adding negative pRESSure to improve healing: The DRESSING Trial
Claire Rickard, Janine Young, John Gowardman, David McMillan, Li Zhang Joan Webster , Geoffrey Playford	Joan Webster (Nursing and Midwifery Research Centre)	Intravascular device administration sets: Replacement after Standard Versus Prolonged use: The RSVP Trial
Claire Rickard, John Fraser, Joan Webster , Wendy Chaboyer, Geoffrey Playford, David McMillan, Matthew McGrail, John Gowardman, Ogilvie Thom, Kimble Dunster, Jeanine Young, Julia Crilly.	Joan Webster (Nursing and Midwifery Research Centre)	Securing Arterial and Venous Devices Effectively in Hospitals: The SAVE Trial.
Nancy Moureau, Nicole Marsh , Li Zhang, Marie Cooke, John Fraser, Claire Rickard.	Nicole Marsh (Nursing and Midwifery Research Centre)	Evaluation of Skin Colonisaiton and Placement of Effective Catheter Exit Sites: The ESCAPE Study.
Maria Castillo, Claire Rickard, Nicole Marsh , Peter Carr, Gavin Jackson, Li Zhang, Marie Cooke, Marianne Wallis, Rachel Walker	Nicole Marsh (Nursing and Midwifery Research Centre)	Integrated versus nOn-integrated Peripheral inTravenous catheter. Which Is the most clinical and cost-effective systeM for peripheral intravenoUs catheter Management? The OPTIMUM Trial
Claire Rickard, Nicole Marsh , Amanda Ullman, Patricia Klieidon, Deborah Long, Marion Mitchell.	Nicole Marsh (Nursing and Midwifery Research Centre)	Secure My Intravascular Line Effectively (SMILE): randomised controlled trials to improve the securement of peripheral intravenous and arterial catheters
Claire Rickard, Amanda Ullman, Nicole Marsh , Patricia Klieidon, Emily Larsen , Victoria Gibson, Gabor Mihala, Nicole Gavin , Jason Schoutrop, Brett Chaseling	Nicole Marsh (Nursing and Midwifery Research Centre) Emily Larsen (Nursing and Midwifery Research Centre)	SurgiSeal® to achieve haemoStasis in peripherally Inserted Central Catheters. The STICC trial.
Patricia Klieidon, Nicole Gavin, Amanda Ullman, Li Zhang, Victoria Gibson, Gabor Mihala, Jason Schoutrop, Brett Chaseling, Claire Rickard, Trent Atkinson , Katrina Southam , Naomi Runnegar, Nicole Marsh , Emily Larsen , Julie Flynn .	Nicole Marsh (Nursing and Midwifery Research Centre) Emily Larsen (Nursing and Midwifery Research Centre) Julie Flynn (Nursing and Midwifery Research Centre)	Peripherally Inserted Central Catheter OutcoMes PolyurethAne veRsus Endexo: PIC COMPARE Pilot Randomised Controlled Trial.
Samantha Keogh, Caroline Shelverton, Julie Flynn , Karen Davies , Nicole Marsh , Claire Rickard.	Julie Flynn (Nursing and Midwifery Research Centre) Karen Davies (Nursing and Midwifery Research Centre) Nicole Marsh (Nursing and Midwifery Research Centre)	An observational study of Nurses' intravenous flush and medication practice in the clinical setting.
Samantha Keogh, Caroline Shelverton, Julie Flynn , Gabor Mihala , Karen Davies , Nicole Marsh , Claire Rickard.	Julie Flynn (Nursing and Midwifery Research Centre) Karen Davies (Nursing and Midwifery Research Centre) Nicole Marsh (Nursing and Midwifery Research Centre)	Implementation and evaluation of PIVC flushing guidelines: A Stepped Wedge Cluster Randomised Trial

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Alison Mudge	Adrian Barnett (PAH) Merrilyn Banks (RBWH) Ruth Hubbard (PAH) Prof Nick Graves (QUT) Dr Nancye Peel (UQ) Assoc Prof Kwang Lim (Uni of Melbourne) Dr Irene Blackberry (La Trobe Uni) Prof Theresa Green (QUT/RBWH) Prue McRae (UQ) Jessica Suna (RBWH)	Collaborative for Hospitalised Elders: Reducing the Impact of Stays in Hospital
Rohan Grimley (Nambour Hospital)	Prof Theresa Green (QUT/RBWH) Ingrid Rosbergen (RBWH) Dr Suzanne Keys Dr Louise Gustafsson Dr Eleanor Horton Dr Benjamin Chen (Gold Coast Hospital) Greg Cadigan (Health Improvement Unit)	Building efficient and equitable pathways to and through rehabilitation in stroke
Neha Kumta (UQ)	Prof Fiona Coyer (RBWH/QUT) Lizanne Dalglish (QUT)	Audit of peri-operative factors associated with pressure injury development in post-surgical ICU patients – (PREDICT)
Anna Grant (RBWH)	Prof Fiona Coyer (RBWH/QUT)	Contextual barriers and facilitators to research utilisation and evidence based practice in intensive care – The COFACTOR Study
Veeranjit Singh (RBWH)	Prof Fiona Coyer (RBWH/QUT) Johnathan Collins (UQ)	Audit of pressure injury development in critically ill patients with C-spine precautions – (InSPECT)
Clint Douglas (QUT), Sonya Osborne (QUT), Carol Windsor (QUT), Robyn Fox (Workforce Development & Education Unit), Catriona Booker (Workforce Development & Education Unit), Alanna Geary (EDNMS), Glenn Gardner (QUT)	Robyn Fox (Workforce Development & Education Unit), Catriona Booker (Workforce Development & Education Unit), Alanna Geary (EDNMS) Nursing and Midwifery Services Research Group.	Enhancing Nursing Core Assessment in Acute Hospitals: The ENCORE Pilot Study (HREC/16/QRBW/284)
Jennifer Paratz (GU) Comans T (GU) Geoff Mitchell (UQ)	Robert Boots (Intensive Care Services) Fiona Coyer (Intensive Care Services) Peter Thomas (Physiotherapy)	Improving outcome in sepsis

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Paterson D, Rickard C, McMillan D, Choudry N, Gavin N , Banu S, Webster J .	Nicole Gavin (Cancer Care Services) Joan Webster (Nursing & Midwifery Research Centre)	emergeNce of Antibacterial resistance associated with the use of antimicrobial impregnated dressings (the RACE Study).	RBWH Foundation	\$40,000	\$40,000 (2016)
Webster J , Marsh N, Larsen E, Gavin N , Choudry N.	Joan Webster , Nicole Marsh , Emily Larsen (Nursing & Midwifery Research Centre) Nicole Gavin (Cancer Care Services)	Biopatch™ or Kendall™ AMD Foam Disc® to reduce the incidence of Central-Line-Associated Blood Stream Infection: A randomized controlled trial (the CLABSI trial)	RBWH Foundation	\$39,152	\$39,152 (2016)
Rickard C, Webster J , Chan R, Mollee P, Playford G, Zhang L, Hallahan A, Alexandrou E.	Joan Webster (Nursing & Midwifery Research Centre)	Peripherally Inserted Central catheter Securement: the PISCES Trial.	NHMRC	\$199,000	\$1,198,006 (2016 – 2018)
Brigid Gillespie, Wendy Chaboyer, Joan Webster , David Ellwood, Jennifer Whitty, Luckman Thalib, Nicky Cullum.	Joan Webster (Nursing & Midwifery Research Centre)	Adding negative pressure to improve healing: The DRESSING Trial	NHMRC	\$427,737	\$2,285,351.30. (2015 - 2019)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Rickard C, Fraser J, Webster J , Marshall A, Young J, Playford EG, McMillan D, McGrail m, Gowardman J, Thom O.	Joan Webster (Nursing & Midwifery Research Centre)	Securing Arterial and Venous peripheral devices Effectively in hospitals: The SAVE Trial NHMRC	NHMRC	\$35 000	\$969,024 (2013 - 2016)
Maria Castillo, Claire Rickard, Nicole Marsh , Tania Clark, Peter Carr, Gavin Jackson, Li Zhang, Marie Cooke, Marianne Wallis.	Nicole Marsh (Nursing & Midwifery Research Centre)	Integrated versus nOn-integrated Peripheral inTravenous catheter. Which Is the most clinical and cost-effective systeM for peripheral intravenoUs catheter Management? The OPTIMUM Trial	Becton, Dickinson and Company	\$496,384	\$661,846 (2016-2017)
Claire Rickard, Amanda Ullman, Nicole Marsh , Patricia Kleidon, Gabor Mihala, Nicole Gavin, Jason Schoutrop, Brett Chaseling	Nicole Marsh (Nursing & Midwifery Research Centre)	SurgiSeal® to achieve haemoSTasis in peripherally Inserted Central Catheters. The STICC trial.	Adhezion Biomedical LLC	\$199,673	\$199,673 (2016)
Claire Rickard, Nicole Marsh , Amanda Ullman, Patricia Kleidon, Deborah Long, Marion Mitchell.	Nicole Marsh (Nursing & Midwifery Research Centre)	Secure My Intravascular Line Effectively (SMILE): randomised controlled trials to improve the securement of peripheral intravenous and arterial catheters	Centurion Medical Products	\$275,000 (2016)	\$275,000 (2016)
Julie Flynn , Samantha Keogh, Li Zhang, Claire Rickard	Julie Flynn (Nursing & Midwifery Research Centre)	Evaluating current methods for effective decontamination of needleless connectors: A pilot randomised control trial	Cancer Nurses Society of Australia	\$5,500.00	\$5,500.00 (2016)
Prof Theresa Green Ms Tara Hormann (Stroke) Dr Tony Parker (QUT) Dr Jonathon Peake (QUT) A/Prof Gregory Bix (USA)	Department of Internal Medicine	Characteristics of physical activity required to elevate circulating neuroprotective LG3 peptide as a novel stroke therapy.	RBWH Foundation	\$40,000	\$40,000
Rohan Grimley, Ingrid Rosbergen, Suzanne Kuys, Louise Gustafsson, Eleanor Horton, Benjamin Chen, Theresa Green , Greg Cadigan	Intensive Care Medicine, Neurology	Building efficient and equitable pathways to and through rehabilitation in stroke	Healthcare Improvement Unit, Queensland Department of Health through the Statewide Stroke and Rehabilitation Clinical Networks	\$80,000	\$320,000 (2016-2018)
Fiona Coyer Robyn Fox (Nurse Education), Alexandra McCarthy (QUT) Amanda Henderson (GU) Ramon Shaban (GU) Karen Theobald (QUT) Bernadette Thompson (PAH)	Intensive Care Services	Academic-industry integration in health: Enhancing postgraduate professional learning.	Covidien	\$15,000	\$15,000 (2016)
Fiona Coyer Amanda Vann (CNC, ICU) Nick Santamaria (Uni of Melbourne) Jane-Louise Cook (QUT) Nicola Barker-Gregory (NUM, ICU Redcliffe Hospital)	Intensive Care Services	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a randomised controlled trial.	Wound Management Innovation Centre for Research Collaboration	\$74,750	\$299,000 (2015-2018)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Fiona Coyer Jill Campbell (Skin Integrity Service)	Intensive Care Services	Efficacy of incontinence- associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial	3M	\$79,281	\$158,562 (2016-2017)
Clint Douglas (QUT), Sonya Osborne (QUT), Carol Windsor (QUT), Robyn Fox (Workforce Development & Education Unit) , Catriona Booker (Workforce Development & Education Unit) , Alanna Geary (EDNMS) , Glenn Gardner (QUT)	Nursing and Midwifery Services Research Group	Enhancing Nursing Core Assessment in Acute Hospitals: The ENCORE Pilot Study (HREC/16/QRW/284)	Institute of Health and Biomedical Innovation, Mid-Career Researcher Development Scheme	\$28,000	\$28,000 (2016-2017)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Chaboyer W, Bucknall T, Webster J , McInnes E, Gillespie B, Banks M et al The effect of a patient centred care bundle intervention on pressure ulcer incidence (INTACT): a cluster randomised trial. <i>Int J Nurs Stud.</i> 2016;64:63-71
Journal article	Banks M, Ross L, Webster J, Mudge A, Stankiewicz M et. al. Does Treatment with an Intensive Nutrition Intervention Improve Pressure Ulcer Healing Compared to Standard Care in an Acute Hospital Setting? A Pilot Randomized Controlled Study <i>J Wound Care.</i> 2016 Jul 2;25(7):384-92
Journal article	Stankiewicz M, Webster J, Coyer F. An education program for pressure injury recognition and assessment utilising constructivism teaching method. <i>Wound Practice and Research</i> 2016;24 (2):100-107
Journal article	Chan RJ, Webster J, Bowers A. End-of-life care pathways for improving outcomes in caring for the dying. <i>Cochrane Database Syst Rev.</i> 2016; Issue 2
Journal article	Gavin N, Webster J, Chan R, Rickard C Frequency of dressing changes for central venous catheters on catheter related infections. <i>Cochrane Database of Systematic Reviews</i> 2016, Issue 2:
Journal article	Gillespie BM, Webster J , Ellwood D, Stapleton H, Whitty JA, Thalib L et al ADding negative pRESSure to improve healing (the DRESSING trial): A RCT Protocol. <i>BMJ Open</i> 2016 Feb 1;6(2):e010287
Journal article	Webster J , New K, Fenn M, Batch M, Eastgate A , Webber S, Nesbit A Impact of frequent <u>P</u> atient moves on patient outcomes in a large <u>T</u> ertiary <u>H</u> ospital: The PATH Study. <i>Aust Health Rev.</i> 2016; 40:324-329.
Journal article	Tutticci N, Coyer F , Lewis P, Ryan M. High fidelity simulation: Descriptive analysis of student learning styles. <i>Clinical Simulation in Nursing.</i> 2016;12(11):511-521.
Journal article	Campbell J, Gosley S, Coleman K, Coyer F. Combining pressure injury and incontinence-associated dermatitis prevalence surveys: An effective protocol? <i>Wound Practice and Research.</i> 2016;24(3):170-77.
Journal article	Ullman A, Keogh S, Coyer F , Long D, New K, Rickard C. 'True Blood' The Critical Care Story: An audit of blood sampling practice across adult, paediatric and neonatal intensive care settings. <i>Australian Critical Care.</i> 2016;29(2):90095. Doi: http://dx.doi.org/10.1016/j.aucc.2015.06.002
Journal article	Tayyib N, Coyer F. Effectiveness of Pressure Ulcer Prevention Strategies for Adult Patients in Intensive Care Units: A Systematic Review. <i>Worldviews Evid Based Nurs.</i> 2016 Dec;13(6):432-444
Journal article	Mitchell ML, Coyer F , Kean S, Stone R, Murfield J, Dwan T. Patient, family-centred care interventions within the adult ICU setting: An integrative review. <i>Aust Crit Care.</i> 2016 Nov;29(4):179-193
Journal article	Tayyib N, Coyer F , Lewis PA. Implementing a pressure ulcer prevention bundle in an adult intensive care. <i>Intensive Crit Care Nurs.</i> 2016 Dec;37:27-36.
Journal article	Hines S, Ramsbotham J, Coyer F. Interventions for improving the research literacy of nurses: a systematic review. <i>JBI Database System Rev Implement Rep.</i> 2016 Feb;14(2):256-94.
Journal article	Kynoch K, Chang A, Coyer F , McArdle A. The effectiveness of interventions to meet family needs of critically ill patients in an adult intensive care unit: a systematic review update. <i>JBI Database System Rev Implement Rep.</i> 2016 Mar;14(3):181-234.
Journal article	Tayyib N, Coyer F. Effectiveness of pressure ulcer prevention strategies for adult patients in intensive care units: a systematic review protocol. <i>JBI Database System Rev Implement Rep.</i> 2016 Mar;14(3):35-44.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Campbell JL, Coyer FM, Mudge AM , Robertson IM, Osborne SR. Candida albicans colonisation, continence status and incontinence-associated dermatitis in the acute care setting: a pilot study. <i>Int Wound J</i> . 2016 Aug 1. doi: 10.1111/iwj.12630. [Epub ahead of print]
Journal article	Tayyib N, Coyer F , Lewis P. Pressure Injury Prevention in a Saudi Arabian Intensive Care Unit: Registered Nurse Attitudes Toward Prevention Strategies and Perceived Facilitators and Barriers to Evidence Implementation. <i>J Wound Ostomy Continence Nurs</i> . 2016 Jul-Aug;43(4):369-74
Journal article	Gardner A, Gardner G, Coyer F , Gosby H. Educating for health service reform: clinical learning, governance and capability – a case study protocol. <i>BMC Nurs</i> . 2016 May 27;15:32
Journal article	Tutticci N, Lewis PA, Coyer F . Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation: A pilot study. <i>Nurse Educ Pract</i> . 2016 May;18:52-9.
Journal article	Ranse K, Yates P, Coyer F . Modelling end-of-life care practices: Factors associated with critical care nurse engagement in care provision. <i>Intensive Crit Care Nurs</i> . 2016;33:48-55.
Journal article	Ranse K, Yates P, Coyer F . End-of-life care practices of critical care nurses: A national cross-sectional survey. <i>Australian Critical Care</i> . 2016;29(2):83-89.
Journal article	Tayyib N, Coyer F , Lewis P. Saudi Arabian adult intensive care unit pressure ulcer incidence and risk factors: a prospective cohort study. <i>International Wound Journal</i> . 2016;13(5):912-19.
Journal article	Campbell J, Coyer F , Osborne S. Incontinence-associated dermatitis: A cross-sectional prevalence study in the Australian acute care hospital setting. <i>International Wound Journal</i> . 2016;13(3): 403-411. doi 10.1111/iwj.12322 (IF 2.023).
Journal article	Campbell JL, Coyer FM , Osborne SR. The Skin Safety Model: Reconceptualizing Skin Vulnerability in Older Patients. <i>J Nurs Scholarsh</i> . 2016 Jan;48(1):14-22.
Journal article	Rickard CM, Edwards M, Spooner AJ, Mihala G, Marsh N , Best J, Wendt T, Rapchuk I, Gabriel S, Thomson B, Corley A, Fraser JF. A 4-arm randomized controlled pilot trial of innovative solutions for jugular central venous access device securement in 221 cardiac surgical patients. <i>J Crit Care</i> . 2016 Dec;36:35-42.
Journal article	Keogh S, Flynn J, Marsh N , Mihala G, Davies K, Rickard CM. Varied flushing frequency and volume to prevent peripheral intravenous catheter failure: a pilot, factorial randomised controlled trial in adult medical-surgical hospital patients. <i>Trials</i> . 2016 Jul 26;17(1):348.
Journal article	Choudhury MA, Marsh N , Banu S, Paterson DL , Rickard CM, McMillan DJ. Molecular Comparison of Bacterial Communities on Peripheral Intravenous Catheters and Matched Skin Swabs. <i>PLoS One</i> . 2016 Jan 5;11(1):e0146354. doi: 10.1371/journal.pone.0146354. eCollection 2016.
Journal article	Lutz BJ, Green T . Nursing's Role in Addressing Palliative Care Needs of Stroke Patients. <i>Stroke</i> . 2016 Dec;47(12):e263-e265.
Journal article	Vaid P, Green T , Shinkaruk K, King-Shier K. Low-Dose Ketamine Infusions for Highly Opioid-Tolerant Adults Following Spinal Surgery: A Retrospective Before-and-after Study. <i>Pain Manag Nurs</i> . 2016 Apr;17(2):150-8.
Journal article	Douglas, C., Booker, C., Fox, R. , Windsor, C., Osborne, S., & Gardner, G. (2016). Nursing physical assessment for patient safety in general wards: Reaching consensus on core skills. <i>Journal of Clinical Nursing</i> , 25(13-14), 1890-1900. doi: 10.1111/jocn.13201
Journal article	Douglas, C., Osborne, S., Windsor, C., Fox, R., Booker, C. , Jones, L., & Gardner, G. (2016). Nursing and medical perceptions of a hospital rapid response system: New process but same old game? <i>Journal of Nursing Care Quality</i> , 31(2), E1-E10. doi: 10.1097/NCQ.0000000000000139

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Webster J , Marsh N, Larsen E, Choudhury M, Gavin N, Booker C, Paterson D Biopatch™ or Kendall™ AMD Foam Disc to reduce the incidence of Central-Line-Associated Blood Stream Infection: A feasibility study. Australasian College for Infection Control and Prevention Conference, Melbourne, Nov 2016
Poster	Webster J , Rickard C, Paterson D, Healy H, Lipman J, Esterman A, Chopra V, Cullum N, Zhang L, Mc Carthy A. Dressing Interventions for Safer Central line Outcomes (DISCO Trial). Australasian College for Infection Control and Prevention Conference, Melbourne, Nov 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Chaboyer, W., Bucknall, T., Webster, J. , McInnes, E., Gillespie, B., Banks, M., Whitty, J., Thalib, L., Cullum, N. & Wallis, M. The effect of a patient centred pressure injury prevention care bundle on pressure injury incidence (INTACT): A cluster randomised trial. Wounds Australia National Conference. Melbourne. 9-12 November, 2016.
Oral and poster	Coyer F. A hole lot of trouble: a device-related tracheostomy pressure injury case study. The Inaugural Wounds Australia Conference (AWMA). Melbourne, November 2016
Oral	Coyer F. , Clark M, Slattery P, Thomas P, McNamara G, Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring pressure and body positioning: A pilot evaluation among critically ill patients. 5th Congress of World Union of Wound Healing Societies. Florence, Italy, September 2016
Oral	Gardner A, Gardner G, Helms C, Gosby H, Coyer F. , Cheng H. Clinical learning, governance and capability. 9th International Council of Nurses (ICN) International Nurse Practitioner/Advanced Practice Nursing Network (INP/APNN) Conference. Hong Kong, September 2016
Poster	Stone L, McCarthy A, Coyer F. The CONTRAST Research Program: Aligning Magnet Attributes in Australia and the United States. 2016 ANCC National Magnet Conference. Orlando, Florida, USA, October 2016
Invited	Coyer F. Pressure injuries in the critically ill patients – a never ending story? World Federation of Critical Care Nurses Congress. Brisbane, Australia, April 2016
Invited	Coyer F. Implementing skin integrity rounds in the intensive care unit. World Federation of Critical Care Nurses Congress. Brisbane, Australia, April 2016
Oral	Tuttici N. (PhD candidate Coyer F Principal supervisor). Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation. Hawaii International Conference on Education. Honolulu, Hawaii, USA, January 2016
Oral/Poster	Green T. , Qi J*, Harwood D, Chou S. Estimating body weight for tPA administration: a review of the literature. Asian Pacific Stroke Conference. Brisbane AUS, July 2016
Poster	Green T. , Fisher O*, Harwood D, Chou S. Oral health care for stroke patients: a review of models of acute inpatient oral care. European Stroke Organization Conference. Barcelona Spain, May 2016
Oral	Green T. Palliative care for stroke survivors. International Stroke Conference. Los Angeles CA, Feb 2016
Poster	Marsh, N. , Webster, J., Larsen, E. , Cooke, M., Mihala, G., Rickard, C. 2016. Identifying risk factors for peripheral intravenous catheter failure from a prospective cohort study of 1000 patients. World Congress of Vascular Access.
Oral	Larsen, E. Gavin, N. Marsh, N. Webster, J. 2016. Independent review team versus standard infection preventionist for CLABSI diagnosis: a systematic review of diagnostic error. Australasian College of Infection Prevention and Control.
Poster	Larsen, E. Gavin, N. Marsh, N. Webster, J. 2016. Independent review team versus standard infection preventionist for CLABSI diagnosis: a systematic review of diagnostic error. World Congress of Vascular Access.
Invited speaker	Marsh N Evaluation of skin colonization and placement of catheter exit sites. Association for Vascular Access (AVA) Conference 2016, Florida
Oral	Marsh N Peripheral Venous Catheter Securement: a multi-centre randomised controlled trial. World Congress Vascular Access (WoCoVA) 2016, Lisbon
Poster	Larsen, E. Keogh, S. Richard, C. 2016. Medical and surgical patients' experiences of peripheral IV insertion: a qualitative study. World Congress of Vascular Access.
Poster	Northfield, S., Gavin, N., Larsen, E. , Mihala, G., Marsh N. 2016. Developing a Cancer Care CVAD Registry. Royal Brisbane and Women's Hospital Healthcare Symposium.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Nursing and Midwifery Research Centre	12	0	5	5
Intensive Care Services	17	0	6	2
Internal Medicine Services	4	1	4	4

Surgical and Perioperative Services



Dr Barry O'Loughlin
Executive Director
Surgical and Perioperative Services

Surgical and Perioperative Services, Royal Brisbane and Women's Hospital (RBWH), provides a comprehensive clinical surgery service to the population of Metro North and Queensland. This is integrated with a strong commitment to teaching, clinical research and quality activities.

The Service Line maintains strong links with the University of Queensland, Queensland University of Technology, the Royal Australasian College of Surgeons (RACS) and research institutes on the campus.

The RACS Annual Scientific Meeting was held in Brisbane in May 2016 and Professor Owen Ung, Head of the Breast Endocrine Surgery Unit was honoured in being appointed Scientific Convenor for this event. Over the course of a week, Royal Brisbane and Women's Hospital surgeons and registrars from a range of speciality Departments presented twenty three scientific papers to showcase clinical research activities.

The RACS has a research and travel scholarship program which over the past five years has awarded over \$9 million to surgeons and trainees in Australasia. In late 2016 Dr Greg O'Grady, Colorectal Surgery Fellow at RBWH was awarded the James Ramsey Scholarship and Dr Hamish Alexander, Neurosurgeon RBWH, the Stuart Morson Scholarship.

In 2016 Professor Frank Gardiner, Dr Geoff Coughlan and Dr John Yaxley put the Department of Urology on the world map by publication in The Lancet of the world's first prospective randomised trial of Robotic Assisted Laparoscopic Prostatectomy versus Radical Open Prostatectomy. This seminal paper provided significant insights into the safety and efficacy of this emerging technology.

Department of Anaesthesia and Perioperative Medicine

2016, has been another big year in research and knowledge translation for the Department of Anaesthesia. The research team continues to grow and expand through collaborations at state, national and international level. This is set to continue through 2017 as the department carries on its participation in local investigator driven and global multi-centre trials.

Research in the department has matured as we see our researcher's progress through their higher degrees. Victoria Eley submitted her PhD thesis, and carries on her research in analgesia use in obese parturients; while Julie Lee continues to advance through her PhD studies on ROTEM® thromboelastometry in obstetric anaesthesia. Rochelle Ryan has recently commenced her Master of Philosophy, researching the impact obesity has on antibiotic dosing.

The department has been awarded 5 scholarships and over \$200,000 worth of grant funding this year. The ANZCA CTG BALANCED study is currently progressing successfully under the guidance of Michael Edwards, as site coordinator, and the department's research nurse Cienwen Town. This study looks at the depth of anaesthesia in elderly surgical patients and associated outcomes. We are continuing to collaborate with the ANZCA CTG, commencing the international, multi-centre trial PADDI in January 2017 to assess the perioperative administration of dexamethasone and infection rates. Julie Lee is the site coordinator with support from research nurse Lizanne Dalgleish. Professor Van Zundert continues to investigate best airway management practices, looking at both patients and manikins to improve intubation practice. Professor's research is supported by research nurse Heather Reynolds. Other ongoing collaborative research with ICU and burns includes studies investigating: antibiotic prophylaxis in bariatric Caesarean and surgical patients (Rebecca Christensen, Victoria Eley, Mathew Smith, Dwane Jackson, Rochelle Ryan, Andre Van Zundert, Jason Roberts and Jeffrey Lipman); Optic nerve sheath measurement of intracranial pressure (Gareth Collins, Lizanne Dalgleish and Cienwen Town); and dermal matrix for deep burns.

From a knowledge translation perspective, the renovations for the state-of-the-art teaching and research centre, the 'Centre for Excellence and Innovation in Anaesthesia' (CEIA), reached completion in late 2016. The centre has allowed the department to facilitate the expansion of the Big 5: teaching, training, equipment, quality and research. With thanks to Dr Nathan Peters the department is already reaping its rewards as it becomes the first QLD based, accredited, simulation based, focused transthoracic echocardiography workshop facility. This workshop reduces the need for physicians to travel interstate to acquire the necessary skills for college qualifications. Lizanne Dalgleish has been appointed Nurse Manager for the CEIA, Katherine Hames continues as the lead for departmental educational activities, and Kersi Taraporewalla directs simulation for the university and medical training. Linda Beckmann, carries on as Airway Management Workshops lead, which is set to grow with the CEIAs expansion. Michelle Roets has been instrumental in facilitating the equipment evaluation for the Systematic analysis of basic equipment in Anaesthesia (SABEA project). Geoffrey Messer and Anthony Hade continue their great work in Quality and Safely management.

By the end of 2016, our Department has published 6 book chapters, 32 journal articles and made 24 conference presentations by Professor Van Zundert, Associate Professor Kerstin Wyssusek, Associate Professor Kersi Taraporewalla, Dr Victoria Eley, Dr Julie Lee, Dr Ben Snow, Dr Heather Reynolds and Ms Lizanne Dalgleish.

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
André Van Zundert	Niall Higgins (RBWH Mental Health)	NIRVANA (Near Infra Red Vascular ANALysis)
Kersi Taraporewalla	Penelope Sanderson (UQ), Heather Reynolds , Marcus Watson (UQ)	Respiratory Sonification Trial
Gareth Collins	Lizanne Dalgleish, Cienwen Town, André Van Zundert, Jeffrey Lipman (RBWH Intensive Care Unit (ICU))	Optic nerve sheath study to measure ICP
Rebecca Christiansen	Victoria Eley, André Van Zundert, Jason Roberts (RBWH ICU), Jeffrey Lipman (RBWH ICU)	Does Cefazolin Prophylaxis During Elective Bariatric Caesarean Section Achieve Therapeutic Concentrations in Plasma and Interstitial Fluid?
André Van Zundert	Heather Reynolds	LMA Protector™ Study
André Van Zundert	Samantha Keogh(AVATAR group, Griffith Uni)	Development and implementation of best flushing practice to optimise peripheral catheter patency and performance
Rochelle Ryan	Rebecca Christensen, Dwane Jackson, Victoria Eley, André Van Zundert, Jason Roberts (RBWH ICU), Jeffrey Lipman (RBWH ICU)	Therapeutic concentrations cephazolin in bariatric surgical patients

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Julie Lee	Cienwen Town , Joel Thomas	Tongue Morphology on MRIs as predictor of difficult intubation
Julie Lee	André Van Zundert	ROTEM® Platelet in pre-eclamptic women
Julie Lee	Victoria Eley, André Van Zundert , Assoc/Prof Rebecca Kimble, John Rowell	ROTEM® Thromboelastometry in Obstetrics – elective Caesarean patients
André Van Zundert	Victoria Eley , Adrian Chin, Renuka Sekar	PEES (Prospective Epidural Extension Study) and Subcutaneous fat study
Victoria Eley	André Van Zundert	Obesity and Obstetric Anaesthesia
Heather Reynolds	André Van Zundert, John Gowardman (RBWH ICU), Claire Rickard (Griffith University)	Bundled interventions for safe care of peripheral arterial catheter in adult patients: the ALICE (Arterial Line Insertion and CarE) protocol
Heather Reynolds	Martin Culwick , Amanda Ullman, Gabor Mihala, Evan Alexandrou, Claire Rickard (Griffith University)	Cochrane Protocol and Review: Dressings and Securement Devices for Peripheral Arterial Catheters

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Professor Kate Leslie	Michael Edwards Lizanne Dagleish Cienwen Town	BALANCED

Research Awards and Achievements

Recipient	Award	Event
Adrian Chin	Gilbert Brown Prize for “A randomized controlled trial comparing ultrasound and palpation assisted combined spinal epidural anaesthesia for elective Caesarean section”	ANZCA ASM Auckland, 2016
Julie Lee	Finalist: Trainee Academic Poster Prize	ANZCA ASM Auckland, 2016
Professor André van Zundert	Professorship	Awarded at University of Udayana, Indonesia 29.2.2016

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Dr Julie Lee Professor Andre van Zundert	Anaesthesia	ROTEM® in pre-eclampsia ANZCA Project Grant	ANZCA	\$58,201	\$58,201 (2016-2017)
Dr Victoria Eley Dr Adrian Chin Dr Renuka Sekar Professor André van Zundert	Anaesthesia	Does subcutaneous fat measured at 18-20 weeks predict difficulty inserting an epidural or adverse pregnancy outcomes?	UQ Academic Title Holders Grant	\$46,000	\$46,000 (2016)
Dr Gareth Collins, Lizanne Dagleish, Cienwen Town	Anaesthesia	Optic Nerve Sheath Study to Measure ICP	RBWH Foundation	\$40,000	\$40,000 (2016)
Dr Rochelle Ryan	Anaesthesia	Does cefazolin prophylaxis during elective bariatric surgery achieve therapeutic concentration in plasma & interstitial fluid?	ANZCA	\$34,059	\$34,059 (2016-2017)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Dr Rebecca Christiansen	Anaesthesia	Does cefazolin prophylaxis during elective bariatric Caesarian section achieve therapeutic concentration in plasma & interstitial fluid?	ANZCA	\$34,059	\$34,059 (2016-2017)
Dr Heather Reynolds	Anaesthesia	Invited Presentation at Association for Vascular Access ASM, Orlando	Ian Potter Foundation Travel Grant	\$2,600	\$2,600 (2016)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Vivian V, van Zundert AA . Nasotracheal intubation and epistaxis. <i>Anaesthesia</i> . 2016;71:722-3.
Journal article	Pieters BM, van Zundert AA . Videolaryngoscopes differ substantially in illumination of the oral cavity: A manikin study. <i>Indian J Anaesth</i> 2016;60:325-9.
Journal article	Van Zundert AA , Skinner MW, Van Zundert TC, Luney SR, Pandit JJ. Value of knowing physical characteristics of the airway device before using it. <i>Br J Anaesth</i> 2016;117:12-6.
Journal article	Van Zundert AA, Kumar CM, Van Zundert TC . Malpositioning of supraglottic airway devices: preventive and corrective strategies. <i>Br J Anaesth</i> 2016;116 (5):579-82.
Journal article	Pieters BM, Wilbers NE, Huijzer M, Winkens B, van Zundert A . Comparison of seven videolaryngoscopes with the Macintosh laryngoscope in manikins by experienced and novice personnel. <i>Anaesthesia</i> 2016;71:556-64.
Journal article	Pieters BM, van Zundert A . Videolaryngoscopes differ substantially in illumination of the oral cavity: A manikin study. <i>Indian J Anaesth</i> 2016;60:325-9.
Journal article	Sekandarzad MW, van Zundert A . Effect of volatile anaesthetics on cancer recurrence. Time will tell. <i>Anaesthesia</i> 2016;71:2120 (Correspondence).
Journal article	Bos MMJ, van Loon RFHJ, Heywood L, Morse MP, van Zundert A . Comparison of the diameter, cross-sectional area and position of the left and right internal jugular vein and carotid artery in adults using ultrasound. <i>J Clin Anesth</i> 2016;32:65-69.
Journal article	Van Zundert A , Kumar CM, van Zundert TCRV. Measures to prevent malpositioning of supraglottic airway devices. <i>Br J Anaesth</i> 2016;117 (Correspondence).
Journal article	Wyssusek KH , Foong WM, Steel C, Gillespie BM. The gold in garbage: implementing a waste segregation and recycling initiative. <i>AORN Journal</i> , 2016; 103:3:316.e1-316.e8. doi:10.1016/j.aorn.2016.01.014.
Journal article	Caragata R, Wyssusek KH , Kruger P. (2016) Acute Kidney injury following liver transplantation: a systematic review of published predictive models. <i>Anaesthesia and Intensive Care</i> , 2016;44 (2):251-261.
Journal article	Wyssusek KH , Keys ALB, Yung J, Sivalingam P, Paul SK, Moloney ET. Evaluation of perioperative predictors of acute kidney injury post orthotopic liver transplantation. <i>Anaesth Intens Care</i> 2016;44:5 (Correspondence).
Journal article	Eley V , Callaway L, van Zundert A , Lipman J, Gallois C. Interpretation of Care Guidelines for Obese Women in Labour: Intergroup Language and Social Identity 2016; <i>Journal of Language and Psychology</i> 2016;1-27.
Journal article	Eley V , Callaway L, van Zundert A , Lipman J. Anaesthetic management of obese parturients: What is the evidence supporting practice guidelines? <i>Anaesth Intensive Care</i> 2016;44:552-559.
Journal article	Sturgess DJ, Greenland KB, Senthuran S, Ajvadi FA, van Zundert A , Irwin MG. Tracheal extubation of the intensive care patient with a difficult airway. <i>Anaesthesia</i> 2016;71:1347-1362.
Journal article	van Zundert A, Wyssusek KH . Postoperative sore throat – know where your airway is positioned. <i>Anaesthesia</i> 2016;71:1241-2.
Journal article	Sekandarzad MW, van Zundert A , Lirk PB, Doornebal CW, Hollmann MW. Perioperative anesthesia care and tumor progression. <i>Anesth Analg</i> 2016;122(3):903-907.
Journal article	Van Zundert A , Gatt SP, Mahajan RP. Continuing to Excel in Anaesthesia through the 'Big Five': Teaching, Training, Testing, Quality and Research. <i>Br J Anaesth</i> . 2016;117(3):276-9.
Journal article	Van Zundert A, Wyssusek KH , Vivian V. Verification of Nasopharyngeal Temperature Probes – They are not always where you think they are! <i>Anesth Analg</i> 2016;123:1338-9.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Van Zundert A , Skinner MW, van Zundert TC, Luney SR, Pandit JJ. Value of knowing physical characteristics of the airway device before using it. Br J Anaesth 2016;117(1):12-6.
Journal article	Hockey CA, van Zundert A , Paratz JD. Does objective measurement of tracheal tube cuff pressures minimise adverse effects and maintain accurate cuff pressures? A systematic review and meta-analysis. Anaesth Intensive Care 2016;44:560-70.
Journal article	Reynolds H, Chalk TJ, van Zundert A , Rickard CM. A way to go to meet guidelines for prevention of intravenous catheter infection and complications: Audit of perioperative peripheral venous catheter care. Vascular Access. 2016;2(2):2-9.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Anaesthesia	32	6	16	8



Department of Ear Nose and Throat Surgery

Probiotics in Airway Health, Department of Otolaryngology, Head and Neck Surgery

Aims

Using local probiotic treatment of the nasal cavity to displace colonisation of pathogenic bacteria from the upper respiratory tract in Chronic rhinosinusitis and recurrent otitis media.

Clinical Benefits

An alternative to antibiotics and a possibility to restore airway health.

Grants

Microbiota of the Human Sinuses. It's role in health and disease, The Garnett Passe and Rodney Williams Memorial Foundation Conjoint Grant.

Research Collaborations

UQCCR University of Queensland Centre for Clinical Research.

QPID Queensland Paediatric Infectious Diseases Laboratory.

CCHR Centre for Children's Health Research | Children's Health Queensland Hospital .

CHRC Child Health Research Centre | The University of Queensland.

Deadly Ears, Brisbane.

Department of Otolaryngology, Head & Neck Surgery, Lund University, Sweden.

Gothenburgh University, Sweden.

Umea University, Sweden.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Dr Andrea Coleman	PhD	The microbiome of otitis media and development of a probiotic to prevent otitis media in Australian Indigenous children	Prof Anders Cervin, Dr Seweryn Bialasiewicz, Dr Eva Grahn-Hakansson

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Sarju Vasani	Honorary Lecturer	UQ School of Medicine	1

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Prof Anders Cervin	Seweryn Bialasiewicz (LCCH)	Microbiota of the Human Sinuses. It's role in health and disease
Prof Anders Cervin	Hanna Sidjabat (UQCCR)	Probiotic Discovery and Development
Prof Anders Cervin	Dr Andrea Coleman	Prevention of otitis media with probiotics in indigenous children

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Christine Cong Guo (QUT)	Prof Anders Cervin	Developing early biomarkers for Alzheimer's disease using olfactory mucosa
Kirsten Spann (UQ)	Prof Anders Cervin	Defects in antiviral defence in the upper airways of children susceptible to ear infections and/or lower respiratory tract infections
Claire Hopkins (Guys Hospital, London)	Prof Anders Cervin Leon Kitpornchai	Core Outcome Dataset in chronic rhinosinusitis

Research Awards and Achievements

Recipient	Award	Event
Dr Andrea Coleman	Avant	Avant Doctors in Training Research Scholarship - recipient in the Advancement of Medicine category; 2016; \$25,000
	NHMRC	National Health and Medical Research Council Postgraduate Scholarship \$100,530.67

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Anders Cervin Seweryn Bialasiewicz	Dep of Otolaryngology Head and Neck Surgery	Microbiota of the Human Sinuses. It's role in health and disease	The Garnett Passe and Rodney Williams Memorial Foundation Conjoint Grant	\$125 000	3

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Phillips NM, Cervin A , Earnshaw J , Sidjabat HE. Melioidosis in a patient with chronic rhinosinusitis. JLO. Cambridge University Press; 2016 Jul;130 Suppl 4(S4):S60–2.
Journal article	Cervin A . The role of macrolide antibiotics in chronic rhinosinusitis. ENT and Audiology News. 2016 Jun 8;25(3):40–1.
Journal article	Mårtensson A, Greiff L, Lamei SS, Lindstedt M, Olofsson TC, Vásquez A, Cervin A . Effects of a honeybee lactic acid bacterial microbiome on human nasal symptoms, commensals, and biomarkers. International Forum of Allergy & Rhinology. 2016 Apr 15;:1–8.
Journal article	Sidjabat HE, Grahn-Håkansson E, Cervin A . Draft Genome Sequence of the Oral Commensal Streptococcus oralis89a with Interference Activity against Respiratory Pathogens. Genome Announc. 2016 Jan 14;4(1):e01546–15–2.
Journal article	Youssef D, Vasani S , Marquess J, Cervin A . 'Rising Incidence of Head and Neck Mucosal Melanoma in Australia.' –J Laryngol Otol. 2016 Dec 5:1–4.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral Presentation	Anders Cervin. American Academy of otolaryngology Head & Neck Surgery, Causation or Association Between the Microbiome and Chronic Rhinosinusitis
Oral Presentation	Anders Cervin. Everyday endoscopic sinus surgery and rhinoplasty course. Medical management of difficult to treat Chronic Rhinosinusitis
Symposium	Anders Cervin. European Rhinologic Society Stockholm, Chairing; What to do when nothing works in CRS? Interactive round table session
Oral Presentation invited speaker	Anders Cervin. European Rhinologic Society Stockholm, Extent of sinus surgery in Chronic Rhinosinusitis
Oral Presentation invited speaker	Anders Cervin. European Rhinologic Society Stockholm, What results can we predict for our patients?
Oral Presentation	Anders Cervin. Karolinska Third Annual International Course on Functional Endoscopic Sinus Surgery; FESS instrumentation
Oral Presentation	Anders Cervin. Karolinska Third Annual International Course on Functional Endoscopic Sinus Surgery; Pre-operative workup in chronic rhinosinusitis
Oral Presentation	Anders Cervin. Grand Rounds RBWH; United Airways
Oral Presentation	Anders Cervin. UQCCR; Treating airway disease with probiotics. Is good bacteria the new antibiotics?
Oral Presentation	Anders Cervin. TRI, UQSIG seminar; From the nostril to the brain
Oral Presentation	Sarju Vasani Brisbane Cancer Conference: CXCR4 imaging in management of Head and Neck Cancer
Oral Presentation	Sarju Vasani July 2016: European Rhinological Society Meeting (ERS) Stockholm – Rising Incidence of Mucosal Melanoma in Australia
Oral Presentation	Sarju Vasani May 2016: Royal Australasian College of Surgeons Scientific Meeting Brisbane: Metastatic Cutaneous SCC to the parotid 5 Years' experience at the RBWH
Oral Presentation	Sarju Vasani Mar 2016: ASOHNS Melbourne – Pharyngocutaneous fistula after laryngectomy experience at the Royal Brisbane and Women's Hospital

Other communications and outputs:

Our research group has presence on Facebook, LinkedIn and Twitter as Probiotic Discovery & Development.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	5	0	15	0

Department of General Surgery

In 2016, publication of our large experience with laparoscopic surgery for colorectal liver metastases was published as an accumulation of 10 years experience. This series places the Royal Brisbane and Women's Hospital HPB unit as the most experienced laparoscopic liver unit in the country. The results of this study were presented in various forms in numerous International meetings to great acclaim.

The series also formed the basis of the thesis for one of our surgeons (Dr David Cavallucci) achieving his Masters of Biostatistics.

Two other important publications across 2016 were also related to advanced laparoscopic surgery, the evolution of Frey's procedure and a Brisbane wide experience of the laparoscopic management of hepatocellular carcinoma.

Dr Nicholas O'Rourke represented the unit internationally as a key member of the international consensus meeting on Laparoscopic liver surgery which reported its outcomes in 2016.

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal articles	Kilburn, Daniel J; Chiow, Adrian KH; Leung, Universe; Siriwardhane, Mehan; Cavallucci, David J; Bryant, Richard; O'Rourke, Nicholas A; Early Experience with Laparoscopic Frey Procedure for Chronic Pancreatitis: a Case Series and Review of Literature
Journal articles	Kilburn, D; Jeavons, C; Cavallucci, D; O'Rourke, T; Yeung, S; Bryant, R; O'Rourke, N, HPB Laparoscopic resection of hepatocellular carcinoma in non-cirrhosis and cirrhosis: The Brisbane experience,
Journal articles	Lewin, Joel W; O'Rourke, Nicholas A; Chiow, Adrian KH; Bryant, Richard; Martin, Ian; Nathanson, Leslie K; Cavallucci, David J, HPB Long-term survival in laparoscopic vs open resection for colorectal liver metastases: inverse probability of treatment weighting using propensity scores,
Journal articles	Cherqui D , G Wakabayashi, DA Geller, JF Buell, N O'Rourke The need for organization of laparoscopic liver resection - Journal of hepato-biliary-pancreatic sciences, 2016
Journal articles	Manas, DM . J Figueras, D Azoulay, JCG Valdecasas, N O'Rourke Expert opinion on advanced techniques for hemostasis in liver surgery - European Journal of Surgical Oncology (EJSO), 2016
Journal articles	Phillips N, T Huey, J Lewin, AW Cheng, NA O'Rourke Surgical management of ampullary somatostatinoma - JOP. J Pancreas (Online), 2016
Journal articles	Barbour A, N O'Rourke, H Chan, YJ Chua, J Kench et al Initial survival outcomes for the AGITG GAP study—a phase II study of perioperative nab-paclitaxel and gemcitabine for resectable pancreatic ductal adenocarcinoma (PDAC). - 2016
Journal articles	Lazzarotto AB, NA O'Rourke, BT Fitzgerald, D Wong Hernia of the diaphragmatic caval foramen causing right atrial "mass", caval obstruction and pulmonary embolism International journal of cardiology, 2016

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited talk	Statistical Methods for registry data, ANZHPBA scientific meeting, 2016 – Dr David Cavallucci
Invited talk	Pancreaticoduodenectomy, the Queensland experience, ANZHPBA scientific meeting, 2016 – Dr David Cavallucci
Invited talk	Robotic HPB surgery, RACS Annual scientific congress, 2016 – Dr David Cavallucci
Invited talk	Robotic hepatectomy, RACS Annual scientific congress, 2016, Dr David Cavallucci
Invited talk	Credentialling is necessary in laparoscopic HPB Surgery, IHPBA Sao Paulo – Dr Nicholas O'Rourke
Invited talk	The Evolution of Laparoscopic Hepatectomy, AHPBA Trainees course, Charlotte, USA – Dr Nicholas O'Rourke
Invited talk	Training in HPB Surgery, ANZHPBA scientific meeting, 2016 – Dr Nicholas O'Rourke
Poster	Laparoscopic resection for Hepatocellular carcinoma – the Brisbane Experience. Dr Dan Kilburn
Oral	Laparoscopic repair of ventral hernia, RACS Annual Scientific Congress, 2016 – Dr Nick Bell-Allen
Poster	Rapid onset of cirrhosis following SIRTEX with Avastin chemotherapy, IHPBA 2016, Dr Joel Lewin

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
HPB Surgery	8	0	8	2



Department of Breast and Endocrine Surgical Unit

The Breast and Endocrine surgical unit has had a productive 2016 from a research point of view with multiple publications and collaborative projects. Our unit now has a complete Breast Cancer Clinical database of all patients treated for Breast cancers at RBWH from 2008 to 2016. As this database has amalgamated Medical oncology and radiation treatment data, it is a valuable resource for future translational research work. This database is currently utilised in a bi-national research project with NZ hospital and University of Auckland investigating the reasons for the survival differences. The database has increased our ability to collaborate with basic and translational researchers and aid the supervision of medical students, junior doctors and surgical trainees in their research endeavours.

The unit is currently involved with Queensland University of Technology in an innovative and exciting project of utilising 3D printing and tissue engineering of nipple reconstruction for patients undergoing nipple sacrificing mastectomy and reconstruction.

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Dr Clement Wong Prof Owen Ung	QUT Centre for biomedical innovation. Lead researcher Professor Dietmar Hutmacher	Tissue engineering and regenerative medicine 3D printed biodegradable scaffolds with tissue-engineered nipple constructs.
Dr.Kowsi Murugappan Prof.Owen Ung	Herston Imaging Research Foundation	Evaluating the accuracy of 18F-FDG PET-MRI scan in detecting regional lymph node disease in Breast cancer patients
Dr.Kowsi Murugappan, Dr.Ben Green, Dr.Clement Wong Prof.Owen Ung	Wesley Medical Hospital and St.Andrew's War memorial Hospital	A retrospective pilot study on the management patterns in Breast Cancer patients treated within a tertiary public and private sector in metropolitan Brisbane

2016 Research Publications

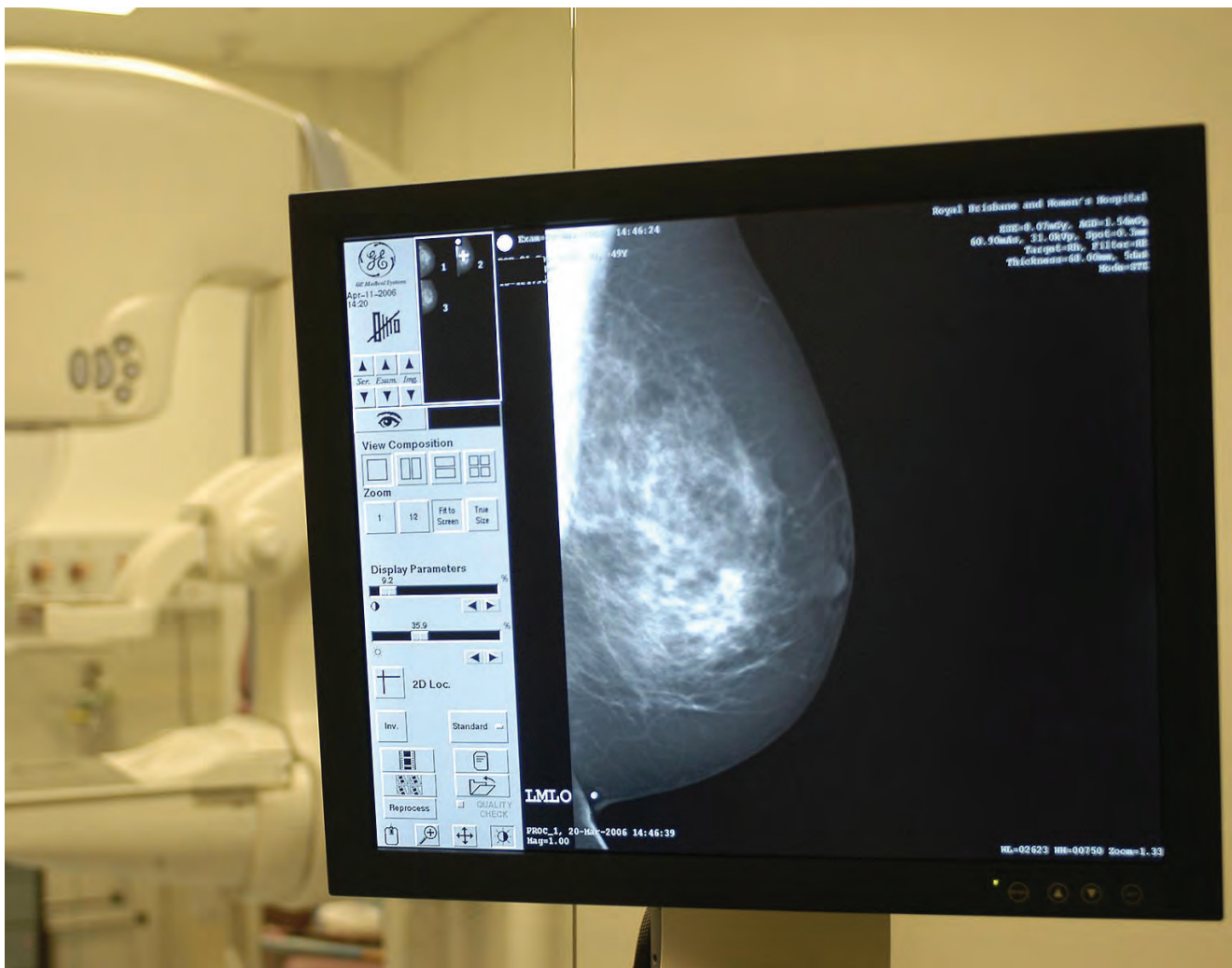
Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal articles	Visscher L., Cheng M., Chhaya M., Hintz M., Schantz J., Tran P., Ung O., Wong C. , Hutmacher D. Breast Augmentation and Reconstruction from a Regenerative Medicine Point of View: State of the Art and Future Perspectives Tissue Engineering Part B: Reviews, Jun 2017, Vol.23(3), pp281-293
Journal articles	Wetzig N, Gill PG, Espinoza D, Mister R, Stockler MR, GebSKI V, Ung OA , Campbell I, Simes RJ Sentinel-lymph-node-based management or routine axillary clearance? Five-year outcomes of the RACS Sentinel Node Biopsy versus Axillary Clearance (SNAC) 1 trial: assessment and incidence of true lymphoedema Annals of Surgical Oncology 15 Nov 2016
Journal articles	Kilbreath SL, Refshauge KM, Ward LC, Ung OA , Dylke ES, French JR, Yee J, Koelmeyer L, Gaitatzis K Risk Factors for Lymphoedema in Women with breast cancer The Breast (in press)

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	Mui Heng Gho, K Murrugappan G Malhotra, C Wong, B Green, SR Lakhani , O Ung “First Australian Centre: Implementation and evaluation of One-Step Nucleic Acid Amplification (OSNA) in Management of Axilla in Breast Cancer : WCS 2017 Aug 13th Basel, Switzerland

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	3	0	0	1



Trauma Service

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Tracey Daelman	Master Applied Management (Nursing)	N/A	N/A
Dale Dally-Watkins	Master Applied Management (Nursing)	N/A	N/A
Bilal Zahoor	PhD, University of Queensland	The Outcomes of Pelvic Packing for Control of Haemorrhage	Kevin Tetworth Daryl Wall

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Daryl Wall	Alistair Hamilton	The Benefit of ROTEM in Critical Haemorrhage
Daryl Wall	Alistair Hamilton	A Comparison of Quality of Trauma Tertiary Survey between Doctors and Trauma Nurse Coordinators
Michael Handy		Missed Injuries in Trauma Care

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Michael Reade	Trauma Service CNC's	PATCH
Cath Hurn	Michael Handy	FIESTY
Daniel Bodner	Michael Handy	PROPHECY
Michael Muller	Michael Handy	RED BLANKET

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Daelman T, Ross J. Expanding the P.A.R.T.Y program across Queensland – SWAN Conference 2016
Poster	Handy, W M. Missed Injury in Trauma Patients poster – Singapore Trauma 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	1	0	1	1

Department of Neurosurgery

The Department of Neurosurgery continues fruitful clinical and translational research collaborations into a wide range of subjects including speech deficits in patients with brain tumours, molecular aberrations in the neuromuscular junction of patients with motor neuron disease and the use of cultured tumour xenografts to investigate genetic alterations and treatment options for primary and secondary brain tumours. New projects have begun into the value of inter-hospital transfer for patients suffering head injury in regional centres, structural changes in the hippocampus of patients with temporal lobe epilepsy, and using molecular-guided PET/MRI imaging to target hypoxia in glioblastoma. Anyone interested in learning about current projects is welcome to attend one of our regular research seminars on the second Tuesday of each month.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Vignesh Raman	Honours	Treating Traumatic Brain Injury – Does it matter where?	D. A. Grieve, R. L. Jeffree

Randomized controlled trials:

A pilot study of the role of valproate in the treatment of high grade glioma: Neurosurgery, Radiation Oncology, CSIRO & University of Queensland.

Other clinical research:

The use of functional magnetic resonance imaging (fMRI) and MRI diffusion tractography for pre-surgical language mapping and investigation of neuroplasticity in adults with a brain tumour: *Neurosurgery, Speech Pathology and University of Queensland.*

Australian Genomics and clinical Outcomes of Glioma (AGOG): *National collaboration with multiple hospitals, Lowy Cancer Research Centre & University of NSW.*

Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage: *Intensive Care Medicine.*

Investigation of the Neuromuscular Junction in patients with Motor Neuron Disease: *Neurosurgery, Neurology, Queensland Brain Institute University of Queensland.*

High field magnetic resonance imaging of hippocampal sclerosis: *Neurosurgery, Medical Imaging, Neurology, Pathology.*

Translational Research and Tissue banking:

Brain cancer tissue and culture bank: *Neurosurgery, QIMR Berghofer Translational Brain Cancer Research Laboratory.*

RBWH-UQ Tissue Bank (Metastases): *Neurosurgery, Molecular Breast Pathology Group UQCCR.*

Queensland Brain Tumour Bank at Wesley Medical Research BioBank: *Neurosurgery.*

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Benjamin Chua, Rosalind L. Jeffree, Zarnie Lwin, Po-Ling Inglis, Bryan Day, Yi-Chieh Lim, Stephen Rose, Nicholas Dowson, Paul Thomas, Jacqui Keller	Radiation oncology, Neurosurgery, Medical Oncology, QIMR, CSIRO, Nuclear medicine	Using molecular-guided PET/MRI imaging to target hypoxia in glioblastoma: A preclinical study to identify novel pathways and define molecular signatures associated with hypoxia and poor patient outcome	RBWH Foundation	\$50 000	
CIs: Elizabeth Hovey, Anna Nowak, John Simes, Associate Professor Kerrie McDonald, Katharine Drummond, Professor Michael Buckland, Eng-Siew Koh, Lawrence Cher Als: Claire Phillips, Helen Wheeler, Kate Sawkins, Kurt Jaeckle, Lindy Jeffree , Martin van den Bent, Michael Back, Robyn Leonard, William Patterson, Zarnie Lwin.	Neurosurgery, Medical Oncology	Phase III Intergroup Study of Radiotherapy with Concomitant and Adjuvant Temozolomide versus Radiotherapy with Adjuvant PCV Chemotherapy in Patients with 1p/19q Co-deleted Anaplastic Glioma or Low Grade Glioma: the CODEL trial	Cancer Australia & Cancer NSW		408,074 (2017-2019)

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Colditz, M. J., Antony, J. & Jeffree R. L. "Fluorescence guided surgery for glioblastoma using 5-ALA is associated with survival benefit in a typical Australian public hospital population." Neurosurgical Society of Australasia Annual Scientific Meeting Sydney 2016
Oral	Antony, J. & Jeffree R. L. "Number of Resections is an Independent Predictor of Survival in Patients with Glioblastoma Multiforme". Neurosurgical Society of Australasia Annual Scientific Meeting Sydney 2016
Invited	R. L. Jeffree "Blunt head trauma in the Elderly" The Elderly Surgical Patient, QASM Seminar, Brisbane

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	0	0	3	0

Department of Oral Maxillofacial Surgery

The Oral & Maxillofacial Unit provides a tertiary service for Queensland and beyond covering the full scope of Oral and Maxillofacial Surgery.

Research has focussed on two main areas. The management and reconstruction of head and neck malignancies, and the treatment of facial injuries. The research staff of the unit have continued a high rate of publications, multiple local, national and international lectures and successful grant applications. Successful research higher degree candidates have led to a high demand for future students. The integration of technology using computer assisted planning and 3D printing in clinical practice will be a focus for coming years.

Our research is aimed to deliver services in a cost efficient and timely fashion to patients whilst improving clinical outcomes and minimising the morbidity of treatments. Clinical research has been the focus of the unit but important collaborations with laboratory researchers continue.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nicolas Beech	MPhil UQ (2015 – 2016)	The impact of dental extractions on Osteoradionecrosis and quality of life in irradiated head and neck cancer patients.	Martin Batstone
Michael Hurrell	PhD UQ (2013 – 2017)	The effects of treatment timing on the outcomes of facial fractures.	Martin Batstone
Timothy Liu	(MPhil) UQ (2016 – 2017)	The utility of radiotherapy in intermediate risk oral cavity SCC.	Martin Batstone
Benjamin Fu	(MPhil) UQ (2015 - 2016)	CT Scanning in odontogenic infections of the head and neck.	Martin Batstone
Kelsey Pateman	PhD (UQ) (2011 – 2016)	Support needs and quality of life implications following head and neck cancer.	Martin Batstone

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Caroline Acton , Bronwyn Griffin, Tona Gillen, Roy Kimble	Centre for Burns and trauma Research, Lady Cilento Childrens hospital	Childhood Bicycle Injuries

Research Awards and Achievements

Recipient	Award	Event
Martin Batstone	Chris O'Brien Travelling Fellowship Joint ANZHNCs/AHNS Award	
Bronwyn Griffin, Caroline Acton , Tona Gillen, Roy Kimble	Best presentation award	18 th International conference on nursing and emergency medicine, Sept 2016, Rome, Italy

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Beech N, Porceddu S, Batstone MD . Preradiotherapy dental extractions and health-related quality of life. <i>Oral Surg Oral Med Oral Pathol Oral Radiol</i> . 2016 Dec;122(6):672-679.
Journal article	Pillay RR, Bilski A, Batstone M. Ameloblastic Fibrosarcoma Arising in the Maxilla. <i>Ochsner J</i> . 2016 Summer;16(2):143-5.
Journal article	Subramaniam S, Sharp D, Jardim C, Batstone MD . Cost-effectiveness of monitoring free flaps. <i>Br J Oral Maxillofac Surg</i> . 2016 Jun;54(5):579-83.
Journal article	Ellis OG, David MC, Park DJ, Batstone MD . High-Volume Surgeons Deliver Larger Surgical Margins in Oral Cavity Cancer. <i>J Oral Maxillofac Surg</i> . 2016 Jul;74(7):1466-72.
Journal article	McNamara Z, Findlay G, O'Rourke P, Batstone M . Removal versus retention of asymptomatic third molars in mandibular angle fractures: a randomized controlled trial. <i>Int J Oral Maxillofac Surg</i> . 2016 May;45(5):571-4.
Journal article	Van Genechten ML, Batstone MD. The relative survival of composite free flaps in head and neck reconstruction. <i>Int J Oral Maxillofac Surg</i> . 2016 Feb;45(2):163-6.
Journal article	Hurrell MJ, Borgna SC , David MC, Batstone MD . A multi-outcome analysis of the effects of treatment timing in the management of zygomatic fractures. <i>Int J Oral Maxillofac Surg</i> . 2016 Jan;45(1):51-6.
Journal article	Farah CS, Dalley AJ, Nguyen P, Batstone M , Kordbacheh F, Perry-Keene J, Fielding D. Improved surgical margin definition by narrow band imaging for resection of oral squamous cell carcinoma: A prospective gene expression profiling study. <i>Head Neck</i> . 2016 Jun;38(6):832-9.
Journal article	Badenoch-Jones EK, David M, Lincoln T . Piezoelectric compared with conventional rotary osteotomy for the prevention of postoperative sequelae and complications after surgical extraction of mandibular third molars: a systematic review and meta-analysis. <i>Br J Oral Maxillofac Surg</i> . 2016 Dec;54(10):1066-1079.
Journal article	Badenoch-Jones EK, Lincoln T . Palatal injection for removal of maxillary teeth: is it required? A systematic review. <i>Int J Oral Maxillofac Surg</i> . 2016 Oct;45(10):1283-92.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Batstone M , Queensland Health Cancer Forum. The importance of partnerships. 30 th May 2016.
Oral	Batstone M , Osteoradionecrosis and Trismus. PA Hospital Symposium. June 2016.
Keynote Speaker	Batstone M , Keynote speaker. Australian Society of Orthodontics, Reconstruction of small jaw defects Gold Coast. August 2016.
Oral	Batstone M , Providence Portland and OHSU scientific meeting. Radiotherapy in Oral cavity cancer. Primum non nocere. July, 2016.
Oral	Batstone M , International conference for perforator flaps. Sydney. Challenging donor vessels in Head and Neck Reconstruction. November 2016.
Oral	Acton C , Kimble R, Griffin B, Gillen T. Bicycles, Children and Trauma 20 years on. 20 th meeting, Australasian Trauma Society. October 2016.
Oral	Griffin B, Acton C , Gillen T, Kimble R.: A 20 year Comparison of Australian Childhood Bicycle Injuries–Have we made a difference? 18 th International Conference on Nursing and Emergency Medicine, Rome, Italy, Sept. 2016. BEST Presentation award
Poster	Griffin B, Acton C , Gillen T, Kimble R. , A 20 year comparison of Australian childhood bicycle injuries–have we made a difference? 2 nd Global conference on Emergency Nursing and Trauma care Sept 2016 Sitges, Spain Sept 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Oral & Maxillofacial Surgery Unit	10	0	7	1

Department of Orthopaedic Surgery

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nicholas Green	Masters, QUT (2016-2017)	Impact of in-house 3D rapid prototype technology used as a preoperative planning aid for complex fracture treatment.	Kevin Tetsworth , Caroline Grant

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Kevin Tetsworth	Matthew Randall, Campbell Tingtate , Timothy Buisoletti	Anterior plate versus ORIF for humerus shaft fractures
Brett Halliday	Jon Anderson	Arthroplasty in Haemophilic Patients



Department of Plastic and Reconstructive Surgery

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Subramaniam, Shiva, Sharp, David, Jardim, Christopher and Batstone, Martin D. (2016) Cost-effectiveness of monitoring free flaps. British Journal of Oral and Maxillofacial Surgery, 54 5: 579-583. doi:10.1016/j.bjoms.2016.03.006

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	2017 RACS annual scientific congress, Verbal presentation 11/5/17, "Neonatal compartment syndrome" Christopher Jardim
Oral	2017 RACS annual scientific congress, Verbal presentation 9/5/17, "Intra-operative TRAM/DIEP diffuse venous congestion and caliber of Superficial Inferior Epigastric venous system" Christopher Jardim
Poster	The ALT free flap: A rare case of dominant rectus femoral perforator, Roman Mykula

Other communications and outputs:

- 400 Consecutive case series of buccinator flap based intra oral reconstructions.
- Effect of radiotherapy on latissimus dorsi free flap reconstruction of craniectomy lesions.
- 5 year Review of lip cutaneous scc.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	1	0	2	1

Department of Thoracic Medicine

A highlight of 2016 was the six month period the world's first bronchoscopic robot spent in the department, supported by its manufacturer Intuitive Surgical (USA). A total of 30 patients underwent bronchoscopy by the robot, in the first ever trial of this device on humans. The robot increased both diagnostic accuracy and safety in the biopsy of small pulmonary nodules and the results are to be presented at an international respiratory conference in late 2016.

Another highlight was the bronchoscopy team winning runner-up award in the Premier's Awards for Excellence in Innovation in November 2016 (photo below).

The department continued its collaboration with the University of Melbourne in the long running Tasmanian longitudinal asthma study, now in its 55th year. All 8,500 babies born in Tasmania in 1961 were included in the study, around 20% of whom had childhood asthma. These subjects, now aged 55, have been followed up every few years by questionnaire and in some cases pulmonary function and blood testing. Around 130 of the cohort are resident in Queensland. Publications arising from the project are shedding light on asthma mechanisms as well as interactions with environmental and genetic factors.

Grants supporting the department's research activities in 2016 included:

- NHMRC \$2m – Screening for early detection of lung cancer. Fong K, Fielding D, Ritchie A et al.
- Intuitive Surgical (USA) \$50,000 – Data management and radiology supporting Bronchoscopic robot project. **Fielding D, Bashirzadeh F et al.**
- Boston Scientific (USA) \$50,000 – Data management supporting bronchial thermoplasty in asthma project. Fielding D, Bashirzadeh F et al.
- NHMRC \$570,000 – Tasmanian longitudinal asthma study. Dharmage S, Abramson M, Morrison S et al.
- Pathology Qld \$100,000 – Genetics studies of lung cancer biopsy specimens. Fielding D, Singh M et al.



Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Type of Position (Conjoint fellow, Adjunct, Honorary)	Name	Research Program	University Affiliation (years)
Research Nurse	Joanne Fuller	Interstitial Lung Disease	

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Fielding D	Pathology Qld, UQCCR, QIMR	Lung cancer genetics studies
Fielding D	Intuitive Surgical (USA)	Robotic bronchoscopy study
Fielding D	Boston Scientific Pty Ltd	Bronchial thermoplasty study
Fielding D	Bashirzadeh F et al	Interventional bronchoscopy studies
Zappala C	Boots R et al	Interstitial lung disease studies
Ritchie A	Fong K, Fielding D	Screening for early detection of lung cancer
Boots R	ICU RBWH	Intensive care studies

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Dharmage S, Abramson M et al University of Melbourne	Morrison S	Tasmanian longitudinal asthma study
Fielding D, Bashirzadeh F, RBWH Pearson J, Nones K, Waddall N, QIMR Berghofer Medical Research Institute Lakhani S, McCartreed A, Black D, Dalley A, Simpson P, University of Qld Centre for Clinical Research Singh M, Nandakumar L, Pathology Qld	Fielding D, Bashirzadeh F	Lung Cancer Genetic studies

Research Awards and Achievements

Recipient	Award	Event
Bronchoscopy team (Fielding D, Bashirzadeh F, Todman M, Haslemore J et al)	Runner-up prize	Premier's Award for Excellence in Innovation

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral - TSANZ	Fielding D, Bashirzadeh F et al – Next generation sequencing
Oral - TSANZ	Glaspole I, Zappala C et al – Quality of life in patients with IPF
Oral - TSANZ	Jo H, Zappala C et al – Baseline pulmonary function test predicts survival in IPF
Oral - TSANZ	Glaspole I, Zappala C et al – Anxiety and depression in IPF
Oral - TSANZ	Galt L, Pahoff C, Ritchie A, Duffy D, Fielding D – Inter-observer variability in the recognition of bronchial segments
Oral - TSANZ	Fielding D, Bashirzadeh F et al – A new bronchoscopy teaching tool
Oral - TSANZ	Fielding D, Galt L, Pahoff C, Ritchie A, Hundloe J, Bashirzadeh F, Kurimoto N – CT detection of visible endobronchial anatomical variants
Oral - TSANZ	Alif S, Dharmage S, Morrison S et al – Occupational exposure to vapour, gases/fumes, dust and lung function in middle aged population
Poster - TSANZ	Rodwell L, McElrea M, Schneider I, Brown M et al – Culturally supportive spirometry training
Poster - TSANZ	Sha J, Langton D, Ing A, Fielding D – First clinical application of bronchial thermoplasty in Australia
Poster - TSANZ	Thirunavukarasu C, Bashirzadeh F, Fielding D – Talc poudrage is an effective treatment option
Poster - TSANZ	Thirunavukarasu C, Bashirzadeh F, Fielding D – Pleuroscopy is effective in the diagnosis of benign pleural conditions
Poster - TSANZ	Galt L, Pahoff C, Ritchie A, Duffy D, Fielding D – High incidence of the segmental bronchial anatomy variations
Poster - TSANZ	Gibson G, Fielding D, Steinke K, Ravikumar A, Bashirzadeh F, Roach R, Windsor M, Ware R – In the investigation of solitary nodules
Poster - TSANZ	Gibson G, Fielding D, Steinke K, Ravikumar A, Bashirzadeh F, Roach R, Windsor M, Ware R – FDG-PET/CT is sensitive but not specific
Poster - TSANZ	Bowatte G, Perret J, Morrison S et al – Association between traffic related air pollution exposure and allergic sensitisation, asthma and LFT
Poster - TSANZ	Perret J, Bowatte G, Morrison S et al – Nitrogen dioxide exposure is associated with increases in serum interleukin 6
Poster - TSANZ	Pattison A, Fielding D, Cook A, Singh M, Nandakumar L – Cytological findings due to occupational dust with EBUS TBNA

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Perret, JL., H Walters, D Johns, L Gurrin, J Burgess, A Lowe, B Thompson, J Markos, S Morrison , P Thomas, C McDonald, R Wood-Baker, J Hopper, C Svanes, G Giles, M Abramson, M Matheson, S Dharmage. Mother's smoking and complex lung function of offspring in middle age. <i>Respirology</i> 2016 21(5) 911-919.
Journal	Matheson, MC, MJ Abramson, K Allen, G Benke, JA Burgess, JG Dowty, B Erbas, IH Feather, PA Frith, GG Giles, LC Gurrin, GS Hamilton, JL Hopper, AL James, MA Jenkins, DP Johns, CJ Lodge, AJ Lowe, J Markos, SC Morrison , JL Perret, MC Southey, PS Thomas, BR Thompson, R Wood-Baker, E Haydn Walters, SC Dharmage. Cohort Profile: The Tasmanian Longitudinal Health Study (TAHS). <i>Int J Epidemiol</i> 2016 Jun 6 pii:dyw028 [Epub ahead of print].
Journal	Matheson, MC, JC Reece, RK Kandane-Rathnayake, ML Tang, JA Simpson, IH Feather, MC Southey, H Tsimiklis, JL Hopper, SC Morrison , GG Giles, EH Walters, SC Dharmage. Mould-sensitized adults have lower Th2 cytokines and a higher prevalence of asthma than those sensitized to other aeroallergens. <i>Allergy</i> 2016 71(12) 1701-1711.
Journal	Tan, DJ, EH Walters, JL Perret, JA Burgess, DP Johns, AJ Lowe, CJ Lodge, P Hayati Rezvan, JA Simpson, S Morrison , BR Thompson, PS Thomas, I Feather, GG Giles, JL Hopper, MJ Abramson, MC Matheson, SC Dharmage. Clinical and functional differences between early-onset and late-onset adult asthma: a population-based Tasmanian Longitudinal Health Study. <i>Thorax</i> 2016 71(11) 981-987.
Journal	Kruavit A, Jain M, Fielding D , Heraganahally S. Exercise-induced endobronchial hemorrhage: a rare clinical presentation. <i>Respir Case Rep</i> . 2016 May 5 4(4) e00163. doi: 10.1002/rcr2.163. eCollection 2016 Jul
Journal	Dumas C, Fielding D , Coles T, Good N. Development of a novel image-based program to teach narrow-band imaging. <i>Ther Adv Respir Dis</i> . 2016 Aug;10(4):300-9.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Fielding DI , Schuster DD. Distinguishing Bronchoscopic Changes of Mitral Stenosis From Carcinoma In Situ With Narrow Band Imaging (NBI). J Bronchology Interv Pulmonol. 2016 Apr 11. [Epub ahead of print].
Journal	Paratz JD, Boots RJ . Dealing with the critical care aftermath: where to from here? J Thorac Dis. 2016 Sep;8(9):2400-2402
Journal	Bellapart J, Abi-Fares C, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, Paratz J, Boots R , Fraser JF. Cerebral microcirculation during mild head injury after a contusion and acceleration experimental model in sheep. Brain Inj. 2016 30(13-14) 1542-1551
Journal	Boots R . Prevention of Nosocomial Infection in the Neurosciences Intensive Care Unit: Remember the Basics. Neurocrit Care. 2016 Oct 25(2) 167-9.
Journal	Bandeshe H, Boots R , Dulhunty J, Dunlop R, Holley A, Jarrett P, Gomersall CD, Lipman J, Lo T, O'Donoghue S, Paratz J, Paterson D, Roberts JA, Starr T, Stephens D, Stuart J, Thomas J, Udy A, White H. Is inhaled prophylactic heparin useful for prevention and Management of Pneumonia in ventilated ICU patients?: The IPHIVAP investigators of the Australian and New Zealand Intensive Care Society Clinical Trials Group. J Crit Care. 2016 Aug 34 95-102.
Journal	Bissett BM, Leditschke IA, Neeman T, Boots R , Paratz J. Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial. Thorax. 2016 Sep 71(9) 812-9
Journal	Mitric G, Udy A, Bandeshe H, Clement P, Boots R . Variable use of amiodarone is associated with a greater risk of recurrence of atrial fibrillation in the critically ill. Crit Care. 2016 Apr 2 20 90. doi: 10.1186/s13054-016-1252-2.
Journal	Bellapart J, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel OC, Gabrielian L, Barnett A, Paratz J, Boots R , Fraser JF. Cerebral Microcirculation during Experimental Normovolaemic Anemia. Front Neurol. 2016 Feb 2 7 6. doi: 10.3389/fneur.2016.00006. eCollection 2016.
Journal	Bellapart J, Roberts JA, Appadurai V, Wallis SC, Nuñez-Nuñez M, Boots RJ . Pharmacokinetics of a novel dosing regimen of oral melatonin in critically ill patients. Clin Chem Lab Med. 2016 Mar 54(3) 467-72.
Journal	Forbes MP, Manoharan B, Zappala C . Nurse endoscopy in Australia. Intern Med J. 2016 Apr;46(4):508-9
Journal	Azzopardi M, Thomas R, Muruganandan S, Lam DC, Garske LA, Kwan BC, Rashid Ali MR, Nguyen PT, Yap E, Horwood FC, Ritchie AJ , Bint M, Tobin CL, Shrestha R, Piccolo F, De Chaneet CC, Creaney J, Newton RU, Hendrie D, Murray K, Read CA, Feller-Kopman D, Maskell NA, Lee YC. Protocol of the Australasian Malignant Pleural Effusion-2 (AMPLE-2) trial: a multicentre randomised study of aggressive versus symptom-guided drainage via indwelling pleural catheters. BMJ Open. 2016 Jul 5 6(7):e011480. doi: 10.1136/bmjopen-2016-011480
Journal	Ritchie AJ , Sanghera C, Jacobs C, Zhang W, Mayo J, Schmidt H, Gingras M, Pasian S, Stewart L, Tsai S, Manos D, Seely JM, Burrowes P, Bhatia R, Atkar-Khattra S, van Ginneken B, Tammemagi M, Tsao MS, Lam S; Pan-Canadian Early Detection of Lung Cancer Study Group.. Computer Vision Tool and Technician as First Reader of Lung Cancer Screening CT Scans. J Thorac Oncol. 2016 May;11(5):709-17.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Thoracic Medicine	18	0	8	10

Department of Urology

2016 Research Awards and Achievements

Recipient	Award	Event
Urology OPD	Quarries	Nominated for a Quarry Award

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Chambers SK, Newton R, Scuffham P, Baade P, Galvão D, Dunn J, Smith D, Wittert G, Davis I, Gardiner RA (Frank) .	NHMRC	Centre for Research Excellence in Prostate Cancer Survivorship.		\$499,768	2016-20. \$2,498,842
Gurney H, Nair-Shalliker V, Smith D, GebSKI V, Patel M, Frydenberg M, Gardiner RA , Kimlin M, Fenech M, Gillatt D.	Movember	A Phase II randomised controlled trial of high dose vitamin D in localised prostate cancer with intermediate risk of progression.		\$208,074	2016-20 \$1,040,370
Gardiner RA , Chambers SK, Dunglison N , Yaxley J , Occhipinto S, Carter R, Williams S, Lavin MF.	Cancer Council Queensland Strategic Research Partnership	A randomised controlled trial of open and robotic prostatectomy: Integrated multidisciplinary studies to guide patient management.		\$149,000	2008-17 \$1,490,000
Schofield P, Juraskova I, Frydenberg M, Chambers S, Gordon L, Gardiner RA .	NHMRC	ASTROID: Active Surveillance and other treatment options for prostate cancer.		\$149,940	2015-19 \$749,704
Yaxley J , Gardiner RA , Coughlin G , Gianduzzo T	Royal Brisbane & Women's Hospital Foundation. Royal Brisbane & Women's Hospital Foundation	Molecular effects of metformin and atorvastatin in prostate cancer.	Queensland Health	\$20 000	2016 – 2017 \$40,000
Galvao D, Chambers SK, Newton R, Gardiner RA , Cormie P, Spry N, Taafe D, Joseph D, Hamilton	NHMRC	Improving sexual health in men with prostate cancer: a randomised controlled trial of exercise and psychosocial therapies.		\$140,461	2014-17 \$561,845

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Invited Plenary Presentations	“A randomised trial of robotic and open prostatectomy” - British Association of Urological Surgeons and Urological Society of Australia and New Zealand Session at the American Urological Association Annual Scientific Meeting, San Diego, May 2016 Gardiner, RA (Frank)
Invited Plenary Presentations	“A randomised trial of robotic and open prostatectomy” - Eastern Section of Japanese Urological Association Annual Scientific Meeting, Aomori, Japan, October 2016. Gardiner, RA (Frank)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal	Yaxley JW , Coughlin GD, Chambers SK, Dunglison N, Gardiner RA. Invited response to letters re:Robotic–assisted laparoscopic radical prostatectomy (RALP) versus open radical retropubic prostatectomy (RRP): early outcomes from a randomised controlled phase 3 study. <i>The Lancet</i> 2017, Feb 25: 389(10071): 800-801
	Yaxley JW , Coughlin GD, Chambers SK, Dunglison N, Gardiner RA. Invited response to letters re:Robotic–assisted laparoscopic radical prostatectomy (RALP) versus open radical retropubic prostatectomy (RRP): early outcomes from a randomised controlled phase 3 study. <i>The Lancet</i> 2017, Feb 25: 389(10071): 800-801
	Yaxley JW , Coughlin GD, Chambers SK, Occhipinti S, Samaratunga H, Zajdlewicz L, Dunglison N, Carter R, Williams S, Payton DJ, Perry-Keene J, Lavin MF, Gardiner RA. <i>Lancet</i> .2016 Sep 10;388(10049):1057-66. Doi:10.1016/S0140-6736(16)30592-X. Epub 2016 Jul 26. Robot-assisted laparoscopic prostatectomy versus open radical Retropubic prostatectomy: early outcomes from a randomised controlled phase 3 study.
	Roberts MJ, Yaxley JW , Coughlin GD, Gianduzzo TR, Esler RC, Dunglison NT, Chambers SK, Medcraft RJ, Chow CW, Schirra HJ, Richards RS, Kienzle N, Lu M, Brereton I, Samaratunga H, Perry-Keene J, Payton D, yama C, Doi SA, Lavin MF, Gardiner RA. <i>Contemp Clin Trials</i> . 2016 Jun 29;50:16-20.doi: 10.1016/j.cct.2016.06.014 (Epub ahead of print) Can atorvastatin with metformin change the natural history of prostate cancer as characterized by molecular, metabolomics, imaging and pathological variables? A randomised controlled trial protocol.
	Roberts MJ, Richards RS, Chow CW, Doi SA, Schirra HJ, Buck M, Samaratunga H, Perry-Keene J, Payton D, Yaxley J , Lavin MF, Gardiner RA Prostate-based biofluids for the detection of prostate cancer: A comparative study of the diagnostic performance of cell-sourced RNA biomarkers. <i>Prostate Int</i> . 2016 Sep;4(3):97-102. doi: 10.1016/j.pmil.2016.04.002. PMID:27689066
	Gardiner RA, Yaxley JW , Parkenham KI, Green H, Mactaggart P, Watson R, Swanson C, Nichol DL. <i>J Clin Oncol</i> .2015 Dec 20;33(36):4314-5.doi: 10.1200/J Clin Oncol.2015.63.5698. Epub Oct 26. Patients who receive androgen deprivation therapy risk adverse cognitive changes.
	Williams S, Yaxley JW, Coughlin GD, Gardiner RA . A randomised control trial of salvage radiotherapy and androgen deprivation therapy following prostatectomy: commentary on five year follow-up findings. <i>Transl Androl Urol</i> . 2016 Dec;5(6):971-973. doi: 10.21037/tau.2016.11.15
	Hill MM, Gardiner RA. Prospecting for prostate cancer with precision medicine. <i>Transl Cancer Res</i> 2016;5 (Suppl 4):S865-S867. doi: 10.21037/tcr.2016.10.18
	Gianduzzo TRJ, Gardiner RA, Rashid P, Young R, Frydenberg M, Kelly S. The importance of an organisation’s brand name: as illustrated by prostate cancer advocacy in Australia. <i>BJUJ</i> . DOI: 10.1111/bju.13469
	Roberts MJ, Yaxley JW, Coughlin GD, Gianduzzo TRJ, Esler RC, Dunglison NT, Chambers SK, Medcraft RJ, Chow CWK, Schirra HJ, Richards RS, Kienzle N, Lu M, Brereton I, Samaratunga H, Perry-Keene J, Payton D, Oyama C, Doi SA, Lavin MF, Gardiner RA . Can atorvastatin with metformin change the natural history of prostate cancer as characterized by molecular, metabolomic, imaging and pathological variables? A randomized controlled trial protocol. <i>Contemp Clin Trials</i> . 2016;50:16-20
	Yaxley JW, Lah K, Yaxley JP, Gardiner RA , Samaratunga H, MacKean J. Long term outcome data for an Australian series of high dose rate (HDR) prostate brachytherapy for intermediate and high risk prostate cancer with a median follow up of 10 years. <i>BJU Int</i> . 2016 Sep 15. doi: 10.1111/bju.13659. [Epub ahead of print]
	Gardiner RA , Mainwaring P, Lavin MF. Integrating molecular profiling from liquid biopsies with a calculator algorithm to detect high-risk prostate cancer. <i>Eur Urol</i> . 2016 May 24. pii: S0302-2838(16)30176-2
	Roberts MJ, Richards RS, Chow CWK, Doi SAR, Schirra HJ, Buck M, Samaratunga H, Perry-Keene J, Payton D, Yaxley J, Lavin MF, Gardiner RA . Prostate-based biofluids for the detection of prostate cancer: a comparative study of the diagnostic performance of cell-sourced RNA biomarkers. <i>Prostate Int</i> . 2016;4(3):97-102.
	Yaxley JW, Coughlin GD, Chambers SK, Occhipinti S, Samaratunga H, Zajdlewicz L, Dunglison N, Carter R, Williams S, Payton DJ, Perry-Keene J, Lavin MF, Gardiner RA . A randomised controlled trial of robotic vs. open radical prostatectomy: Early outcomes. www.thelancet.com Published online July 26, 2016 http://dx.doi.org/10.1016/S0140-6736(16)30592-X
	Chambers SK, Foley E, Clutton S, McDowall R, Occhipinti S, Berry M, Stockler MR, Lepore SJ, Frydenberg M, Gardiner RA , Davis ID, Smith DP. The role of mindfulness in distress and quality of life for men with advanced prostate cancer. <i>Qual Life Res</i> . 2016 Jun 17. [Epub ahead of print] DOI 10.1007/s11136-016-1341-3
	Galvao D, Taaffe D, Spry N, Gardiner RA , Taylor R, Risbridger G, Frydenberg M, Hill M, Chambers SK, Stricker P, Shannon T, Hayne D, Zopf E, Newton R. Enhancing Active Surveillance for Men with Prostate Cancer: The Potential Role of Exercise Medicine. <i>Nature Reviews Urology</i> doi:10.1038/nrurol.2016.46 Epub 2016 March 2016.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
	Hyde MK, Newton RU, Galvão DA, Gardiner RA, Occhipinti S, Lowe A, Wittert GA, Chambers SK. Men's help-seeking in the first year after diagnosis of localised prostate cancer. <i>European Eur J Cancer Care (Engl)</i> . 2016 Apr 25. doi: 10.1111/ecc.12497. [Epub ahead of print]
	Roberts MJ, Hattwell JPN, Chow CWK, Lavin M, Pierens GK, Gardiner RA, Schirra HJ. Tartrate inhibition of prostatic acid phosphatase improves seminal fluid metabolite stability. <i>Metabolomics</i> . 2016, 12:162
Publications Submitted:	Newton RU, Schumann M, Wall BA, Häkkinen K, Taaffe D, Spry N, Joseph D, Gardiner RA , Chambers SK, Kraemer WJ, Cormie P, Galvão DA. Association of duration of ADT with physical fitness, body composition and quality of life in men with prostate cancer. Submitted to <i>Asian Journal of Andrology</i>
	Galvão DA, Newton RU, Girgis A, Lepore S, Stiller A, Mihalopolous C, Gardiner RA , Taaffe DR, Occhipinti S, Chambers SK. Randomized Controlled Trial of a Peer Led Multimodal Intervention for Men with Prostate Cancer to Increase Exercise Participation. Submitted <i>European Urology</i>
	Gordon LG, Tuffaha HW, James R, Keller AT, Lowe A, Scuffham PA, Gardiner RA . Avoiding the prostate cancer cost tsunami: a Markov modelling analysis. Being re-submitted to <i>Urologic Oncology</i> .
	Zajdlewicz L, Hyde MK, Lepore SJ, Gardiner RA , Chambers SK. Quality of Life after the Diagnosis of Locally-Advanced or Advanced Prostate Cancer: A Longitudinal Study. Accepted, <i>Oncology Nursing Forum</i>
	Mervin C, Lowe A, Gardiner RA, Smith D, Aitken J, Chambers S, Gordon L. What does it cost Medicare to diagnose and treat men with localised prostate cancer in the first year? Resubmitted to <i>APJCO</i>
Manuscripts in preparation	Roberts MJ, Richards RS, Chow CWK, Hattwell JPN, Doi SAR, Buck M, Yaxley J, Lavin MF, Schirra HJ, Gardiner RA . Seminal fluid metabolomics to detect and characterise clinically significant prostate cancer.
	RS Richards, CW Chow, MM Hill, MJ Roberts, JW Catto, RA Gardiner , MF Lavin. Seminal plasma is a source of extracellular RNA biomarkers for prostate cancer.

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
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Department of Vascular Surgery

Dr Jason Jenkins is the chief investigator on a number of National Health and Medical Research Council funded clinical trials aimed at improving the management of vascular disease. Dr Jenkins has significant research collaborations with Professor Jon Golledge's group at James Cook University, Dr Chris Askew at the University of the Sunshine Coast, Professor Rob Fitridge at the University of Adelaide, Professor Bronwyn Kingwell at the Baker IDI Heart and Diabetes Research Institute and Professor Malcolm West's group at The Prince Charles Hospital.

During 2016, under the supervision of Dr Jason Jenkins and in collaboration with the University of Queensland, the Department of Vascular Surgery participated in a variety of research projects in the area of vascular disease. Research ranged from basic science investigation into the aetiology of aortic aneurysmal disease, through to studies of devices for the endoluminal management of aortic pathology. The department played a key role in the recruitment of participants to multicentre clinical trials assessing medical therapies for the management of abdominal aortic aneurysm (AAA), as well as a behavioural intervention trial for patients with peripheral artery disease (PAD).

Research carried out by the Vascular Department has the potential to significantly improve the management of patients with PAD. At present there is no known medical therapy for the treatment of AAAs. The clinical trials underway within the department aim to identify an agent which may be used to slow down the growth of AAAs, with the long-term goal of reducing the numbers of patients required to undergo AAA repair. Research into novel endoluminal devices aims to identify a more clinically effective solution for endovascular repair of AAAs.

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Dr Jason Jenkins	Prof Jon Golledge (James Cook University)	Telmisartan in the management of abdominal aortic aneurysm (TEDY)
Dr Jason Jenkins	Prof Jon Golledge (James Cook University)	Fenofibrate in the management of abdominal aortic aneurysm (FAME)
Dr Jason Jenkins	Prof Jon Golledge (James Cook University)	Fenofibrate in the management of abdominal aortic aneurysm-2 (FAME-2)
Dr Jason Jenkins	Prof Jon Golledge (James Cook University)	Effect of a dietary supplement on abdominal aortic aneurysm growth (IMAGEN)
Dr Jason Jenkins	Prof Jon Golledge (James Cook University)	Brief behavioural counselling intervention for peripheral arterial disease (BIP)
Dr Jason Jenkins	Sr. Julie Jenkins (RBWH)	The Endurant Stent Graft Natural Selection Post-market Registry (ENGAGE)

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Associate Professor Chris Askew	Dr Jason Jenkins	The effect of acute exercise on vascular function and inflammation in abdominal aortic aneurysm patients (AAAEP)

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
GOLLEDGE, Jonathan; Jenkins, J ; Norman, P.; Ahimastos, A.; Dalman, R. & Fitridge, R.	Vascular	Telmisartan in the Management of Abdominal Aortic Aneurysm	NHMRC Project Grant administered by James Cook University	\$40,000	\$101,184 (2014-2016)
BURTON, Nicola W; Golledge, J.; Jenkins, J ; Norman, P.; Fiatarone Singh, M.; Leicht, A. & Ademi, Z.	Vascular	Assessment of the efficacy of a brief behaviour intervention designed to improve physical activity in patients with peripheral artery disease	NHMRC Project Grant administered by James Cook University	\$39,947	\$131,257.26 (2014-2018)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Burton NW, Ademi Z, Best S, Fiatarone Singh MA, Jenkins JS , Lawson KD, Leicht AS, Mavros Y, Noble Y, Norman P, Norman R, Parmenter BJ, Pinchbeck J, Reid CM, Rowbotham SE, Yip L, Golledge J. Efficacy of brief behavioral counselling by allied health professionals to promote physical activity in people with peripheral arterial disease (BIPP): study protocol for a multi-center randomized controlled trial. <i>BMC Public Health</i> . 2016 Nov 9;16(1):1148.
Journal article	Sophie E. Rowbotham , Bernie Bourke, Michael Bourke, Rene Jaeggi, Jason S. Jenkins, Joseph V. Moxon, Jenna L. Pinchbeck, Christopher M. Reid, Ramesh Velu, Jonathan Golledge. Fenofibrate in the management of AbdoMinal aortic anEurysm (FAME)-2: the study protocol for a multi-centre, randomised, placebo-controlled trial. <i>Int J ClinTrials</i> . 2016 Nov; 3(4): 217-224.
Journal article	Wang LL, Choong AM, Kovalic A, Jenkins J, Kruger A . Extra-Anatomic Axillo-Mesenteric Reconstruction for Chronic Mesenteric Ischemia. <i>Ann Vasc Surg</i> . 2016 Feb;31:206.e5-8.
Journal article	Khashram M, Jenkins JS, Jenkins J, Kruger AJ, Boyne NS, Foster WJ, Walker PJ . Long-term outcomes and factors influencing late survival following elective abdominal aortic aneurysm repair: A 24-year experience. <i>Vascular</i> . 2016 Apr;24(2):115-25.
Journal article	Lim A, Kaur G, Poyck P, Vyas V, Redmond A, Quinn S . Bacillus Calmette-Guérin immunotherapy: a rare cause for a ruptured common femoral artery. <i>ANZ J Surg</i> . 2016 Apr 15.
Journal article	Golledge J, Biroš E, Bingley J, Iyer V , Krishna SM. Epigenetics and Peripheral Artery Disease. <i>Curr Atheroscler Rep</i> . 2016 Apr;18(4):15.
Journal article	Vaile J, Stefanovic B , Askew CD. Effect of lower limb compression on blood flow and performance in elite wheelchair rugby athletes. <i>J Spinal Cord Med</i> . 2016;39(2):206-11
Journal article	Lee MJ, Bhangu A, Blencowe NS, Nepogodiev D, Gokani VJ, Harries RL; Association of Surgeons in Training/National Research Collaborative Consensus group, Akinfala M, Ali O, Allum W, Bosanquet DC, Boyce K, Bradburn M, Chapman SJ, Christopher E, Coulter I, Dean BJ, Dickfos M , El Boghdady M, Elmasry M, Fleming S, Glasbey J, Healy C, Kasivisvanathan V, Khan KS, Koliás AG, Lee SM, Morton D, O'Beirne J, Sinclair P, Sutton PA. Academic requirements for Certificate of Completion of Training in surgical training: Consensus recommendations from the Association of Surgeons in Training/National Research Collaborative Consensus Group. <i>Int J Surg</i> . 2016 Nov;36 Suppl 1:S24-S30.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Simon Quinn. Treatment options for the acutely thrombosed AV fistula. RACS ACS, Brisbane, May 2016
Oral	Simon Quinn. Algorithm for dealing with immediate post CEA stroke. RACS ACS, Brisbane, May 2016
Oral	Nicholas Boyne. Long calcified tibial CTO – My toolbag. RACS ACS, Brisbane, May 2016
Oral	Murray Ogg. Conservative Vs. Endovascular approach for management of iliofemoral DVT. RACS ACS, Brisbane, May 2016
Poster	Marilla Dickfos. Surgical management of amiodarone-induced thyroiditis. RACS ACS, Brisbane, May 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
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Women's and Newborn Services



Tami Photinos
A/Executive Director
Women's and Newborn Services

Women's and Newborn Services (WNS) offer a wide and diverse range of healthcare services to women and their babies across Queensland and beyond. We are dedicated to quality multidisciplinary healthcare which is evident in our commitment to expanding research within the service line.

WNS continues to maintain an active interest in research activities as well as the provision of multiple education programs for undergraduate and postgraduate health service professionals. To that end we maintain a strong connection with local universities including the University of Queensland, Queensland University of Technology, James Cook University and Central Queensland University and the Royal Australian and New Zealand College of Obstetrics and Gynaecology (RANZCOG). Queensland Centre for Gynaecological Cancer (QCGC) has continued research activities in 2016 to help improve patient outcomes by researching the most effective treatment for women with gynaecological cancers. QCGC has recently released its 30 Year Outcome Report which is the first of its kind in Australia.

The Perinatal Research Centre's (PRC) multidisciplinary research team, consisting of clinicians, scientists, allied health professionals and engineers, aims to discover and translate research advances into clinical practice and better health outcomes for mothers and babies. Research within the PRC covers several areas and have received multiple grants in 2016 to improve these outcomes.

The Grantley Stable Neonatal Unit (GSNU) continues to have an interest in a varying number of research opportunities and looks to further enhance collaborations between universities and internal departments that were developed in 2016. GSNU's close collaboration with the Perinatal Research Centre continues to translate research into clinical practice.

Obstetric Medicine continues to add to the research program with a focus on women with complex pregnancies and improving the outcomes for both mother and infant. With the recent transfer of Obstetric Medicine to WNS we hope to further build this research portfolio to continue to improve these outcomes.

The Department of Obstetrics and Gynaecology continues to increase its activity and provides tertiary and quaternary obstetrics and gynaecology services for Metro North Hospital and Health Service and Queensland. Both departments and its subdivisions are involved in multidisciplinary research to ensure the care of the women we treat and management of their care is contemporary and evidenced based. Significant research contributions continued in 2016 by the Maternal Fetal Medicine Unit, Statewide Paediatric and Adolescent Gynaecology Services, Urogynaecology, Reproductive Endocrinology and Infertility divisions of Women's and Newborn Services.

Perinatal Research Centre

The Perinatal Research Centre (PRC), directed by Professor Paul Colditz, is committed to improving health for mothers and babies through world class biomedical and clinical research. Our multidisciplinary research team, consisting of clinicians, scientists, allied health professionals and engineers, aims to discover and translate research advances into clinical practice and better health outcomes for mothers and babies. Research within the PRC covers several related areas including neonatal brain injury and neuroprotection led by Dr Tracey Bjorkman, systems physiology led by Dr Barbara Lingwood and Dr Yvonne Eiby, signal processing led by Prof Boualem Boashash as well as clinical trials involving the Royal Brisbane and Women's Hospital.

With the support of our national and international collaborators we achieved much towards our goals in 2016. Congratulations to Dr Barbara Lingwood for her successful NHMRC grant application to commence in 2017. This study will examine whether early blood transfusion is more effective than saline to improve cerebral oxygen delivery in very preterm neonates. We are also pleased to report the award in 2016 of a \$2.5 million NHMRC Centre for Research Excellence grant for the Australasian cerebral palsy clinical trials network. This grant along with \$1.5 million from Advance QLD Innovation Partnerships Program in 2016 encompasses a collaborative network of clinicians and researchers throughout Queensland and Australia to optimise interventions and advance services for children with cerebral palsy.

Professor Paul Colditz continues to lead a \$1.65 million NHMRC grant over 5 years to predict neurodevelopmental disability in babies born very preterm. By identifying structural and functional brain connectivity features earlier and more accurately than currently possible in the preterm brain, this research will enable better prediction of longer-term motor and neurodevelopmental function. This will lay the groundwork for new interventions to prevent or effectively treat brain injury.

Dr Tracey Bjorkman continues her NHMRC project to evaluate a novel therapy for neonatal seizures. The growth of the neonatal brain injury team has led to a number of significant publications in 2016 and strengthened our capacity in newborn neuroprotection research. The Lion's Medical Research Foundation's generous support of Dr Tracey Bjorkman has allowed her to undertake and advance this vital research and to continue to attract significant additional funding.

The Prem Baby Triple P Parenting Study is almost complete. This project, funded by NHMRC and led by Prof Colditz, will determine whether this parenting intervention improves outcomes for preterm babies and their families. Other ongoing clinical trials which utilise state-of-the-art methods and techniques include predicting motor outcomes in preterm babies using MRI, establishing the effects of massage in very preterm babies, optimising adaptation of the cardiovascular system to extrauterine life in the very preterm baby, and determining the effects of different feeding regimens on development in preterm babies. The Harcourts RBWHF Butterfly Ball, held at the Hilton, was a great success and enjoyed by many. Prof Paul Colditz and Dr Tracey Bjorkman recently led tours of the nursery and labour ward at the RBWH with the Lion's Medical Research Foundation Personality Quest entrants. We would like to thank RBWH Foundation, Harcourts Foundation, Lions Medical Research Foundation and so many members of the public for their generous support which is vital to improving outcomes for mothers and babies through research.



Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
MD Abdul Awal	PhD, UQ (2013-2016)	Classification and localization of neonatal EEG abnormalities using time-frequency image processing based neural network and support vector machine	Paul Colditz , Boualem Boashash
Ms Nada Al-Theyab	PhD, UQ (2012-2017)	Preterm infant body composition	Barbara Lingwood, Timothy Donovan , Paul Colditz
Ms Rebecca Caesar	PhD, UQ (2012-2017)	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants	Roslyn Boyd, Paul Colditz
Mr Matthew Fielder	MPhil, UQ (2014-2017)	Novel therapies for seizures following hypoxic-ischaemic injury in neonates	Stella Tracey Bjorkman, Paul Colditz
Ms Elizabeth Forbes	MPhil, UQ (2013-2017)	Changes in cardiac structure and biochemistry during transition to extra uterine life in preterm and term piglets	Yvonne Eiby, Barbara Lingwood, Karen Moritz
Ms Joanne George	PhD, UQ (2012-2017)	Prediction of motor outcomes based on early brain structure	Roslyn Boyd, Paul Colditz , Stephen Rose
Ms Kate Goasdoue	PhD, UQ (2015-2018)	A novel therapy for neonatal seizures	Stella Tracey Bjorkman, Julie Wixey
Luke Jardine	PhD, UQ (2015-2018)	Development of early predictors of long term neurodevelopmental outcome for preterm infants	Paul Colditz , Mark Davies
Ji Yeon Kim	PhD, UQ (2015-2018)	Understanding how remote application of near infrared light induces neuroprotection	Paul Colditz , Jonathon Stone
Ms Annice Kong	PhD, UQ (2014-2017)	The relationship between brain structure assessed using diffusion MRI and function assessed using dense array EEG of very preterm infants and the ability to predict neurodevelopmental outcomes	Paul Colditz , Simon Finnigan, Roslyn Boyd, Stephen Rose
Dr Melissa Lai	PhD, UQ (2015-2018)	Environmental manipulation of the very preterm infant: Can dense array EEG detect developmental differences at term equivalent age	Paul Colditz , Simon Finnigan, Jurgen Fripp
Norman Ma	MPhil, UQ (2011-2017)	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions	Stella Tracey Bjorkman, Craig Winter, Paul Colditz
Ms Stephanie Miller	PhD, UQ (2008-2017)	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury	Stella Tracey Bjorkman, Peter Noakes
James Morong	MPhil, UQ (2015-2017)	A comparative study of in-hospital maternal mortality ratio (MMR) between the United States of America and Australia	Paul Colditz , Alfred Robichaux
Abirami Ratnasingham	PhD, UQ (2016-2019)	Long term consequences of altered neonatal adiposity	Barbara Lingwood, Timothy Donovan , Marloes Nitert Dekker, Peter Davies
Ms Sonia Sam	PhD, UQ (2011-2017)	Cardiovascular factors associated with poor outcome in preterm infants	Barbara Lingwood, Paul Colditz
Ms Emma Schleiger	PhD, UQ Awarded 2016	Ameliorating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals	Simon Finnigan , Andrew Wong , Stephen Read
Ms Nabeel Sheikh	PhD, UQ (2011-2017)	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke	Andrew Wong , Simon Finnigan , Stephen Read
Mr Timothy Sherry	PhD, UQ (2015-2018)	Identification of brain events via electroencephalogram EEG through blind source separation	Paul Colditz

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Paul Colditz	Professor of Perinatal Medicine	Clinical neonatology, neuroscience, biomedical signal processing	University of Queensland (current)
Tracey Bjorkman	Lions Senior Medical Research Fellow	Hypoxic-ischemic brain injury and seizures in the neonate	University of Queensland (current)
Nigel Barnett	Honorary Senior Fellow	The effects of hypoxia/ischaemia in visual development and disease	University of Queensland (current)
Boualem Boashash	Professor	Time-frequency signal analysis, biomedical signal processing, spectral estimation, signal detection and classification	University of Queensland (current)
Michael Colditz	Honorary Fellow	Clinical neuroscience	University of Queensland (current)
Kirat Chand	Research Officer	Hypoxic-ischaemic brain injury, inflammation and seizures in the neonate	University of Queensland (current)
Therese De Dassel	Honorary Research Fellow	Clinical psychology, psychiatry	University of Queensland (current)
Brendan Dietrich	Senior Research Technician	Improving outcomes for preterm infants	University of Queensland (current)
Shiyong Dong	Associate Professor	Signal processing: applications to the analysis and detection of perinatal asphyxia	University of Queensland (current)
Timothy Donovan	Research Fellow	Improving outcomes for preterm infants particularly in the area of nutrition, growth/ body composition and development. Ongoing research in the use of telemedicine to provide outreach care of sick infants in regional hospitals. Epidemiology of gastroschisis	University of Queensland (current)
Yvonne Eiby	Honorary Professor	The cardiovascular system of preterm infants	University of Queensland (current)
Christine East	Research Nurse	Fetal monitoring	Monash University (current)
Keren Elfverson	Senior Research Fellow	Clinical Trials	University of Queensland (current)
Simon Finnigan	Adjunct Fellow	Brain monitoring techniques to improve outcomes for critically ill patients (e.g. extremely premature babies; stroke patients)	University of Queensland (current)
Katie Foxcroft	Honorary Senior Fellow	Clinical Trial Coordinator	University of Queensland (current)
Janet Hammill	Research Nurse	Collaboration for Alcohol Related Developmental Disorders	University of Queensland (current)
Annelise Kirkham	Postdoctoral Research Fellow	Clinical Trials	University of Queensland (current)
Aven Lee	Senior Lecturer	Molecular biology and protein biology of the brain	University of Queensland (current)
Melissa Lai	Research Nurse	EEG in preterm babies	University of Queensland (current)
Gillian Lack	Senior Research Fellow	Clinical Trials	University of Queensland (current)
Barbara Lingwood	Honorary Fellow	Cardiovascular function in the preterm infant, infant body composition	University of Queensland (current)
Penny Love	Honorary Professor	Preterm massage study	University of Queensland (current)
Eugene Lumbers	Research Nurse	Fetal origins of adult diseases, hypertension, development of control of the circulation, exercise and training, and renal development and function	University of Queensland (current)
Kellie McGrory	Honorary Fellow	Clinical Trials	University of Queensland (current)
Randal Moldrich	Research Nurse	Preterm brain outcomes	University of Queensland (current)
Lisa McKeown	Postdoctoral Research Fellow	Clinical Trials	University of Queensland (current)
Steve Mehrkanoon	Postdoctoral Research Fellow	Signal Processing	University of Queensland (current)
Stephanie Miller	Research Assistant	Hypoxic-ischaemic brain injury and seizures in the neonate	University of Queensland (current)
Kym Morris	Research Assistant	Clinical Trials	University of Queensland (current)
Margo Pritchard	Honorary Senior Fellow	Child health surveillance and intervention	Australian Catholic University (current)

Name	Type of Fellowship	Research Program	University Affiliation (years)
Stephen Rose	Honorary Professor	Development and application of advanced MRI techniques to aid the detection and monitoring of disease processes	University of Queensland (current)
Kylie Smart	Research Nurse	Clinical Trials	University of Queensland (current)
Karen Taylor	Research Nurse	Clinical Trials Group supporting: Enhanced parenting to improve developmental outcomes in preterm infants	University of Queensland (current)
Leanne Winter	Project Coordinator	Prem Baby Triple P	University of Queensland (current)
Julie Wixey	Research Officer	Hypoxic-ischaemic brain injury, intrauterine growth restriction and inflammation in the neonatal brain	University of Queensland (current)

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Paul Colditz	Julie Wixey, Susan Sullivan, Melissa Lai	Protecting growth restricted newborn brains by reducing inflammation
Paul Colditz	Melissa Lai , Stella T Bjorkman, Kirat Chand	Novel approaches to protecting the newborn brain
Paul Colditz	Barbara Lingwood, Marloes Dekker-Nitert, Tim Donovan , Peter Davies, Chong	Long-term consequences of altered neonatal adiposity
Paul Colditz	Virginia Slaughter	Is excessive fat accumulation in the weeks after preterm birth associated with poor neurodevelopmental outcome?
Katie Foxcroft	Katie Groom	STRIDER (NZAus): A randomised controlled trial of sildenafil therapy in dismal prognosis early-onset intrauterine growth restriction (New Zealand and Australia) (led by the University of Auckland)
Katie Foxcroft	Pieter Koorts , William Tarnow-Mordi	Does lactoferrin improve survival free from morbidity in very low birth weight infants? Lactoferrin Infant Feeding Trial: a randomised controlled trial
Tim Donovan	Barbara Lingwood, Paul Colditz	Optimising brain development through rationally based nutritional interventions in preterm infants
Paul Colditz	Yvonne Eiby, Sonia Sam , Susan Sullivan	Effective volume expansion in preterm neonates: Cardiovascular and Cerebral outcomes
Sonia Sam	Yvonne Eiby, Paul Colditz	Is angiotensin II a better inotrope than dopamine in preterm infants?
Paul Colditz	Roslyn Boyd, Atul Malhotra, Stephen Rose, Boualem Boashash, Michael Ditchfield, Michael Fahey, Kerstin Pannek, Randal Moldrich	Neurodevelopment of the preterm infant
Paul Colditz	Matthew Sanders, Roslyn Boyd, Margo Pritchard, Peter Gray, Michael O'Callaghan, Virginia Slaughter, Koa Whittingham	Enhanced parenting capacity to improve developmental outcomes in preterm infants
Paul Colditz	Barbara Lingwood, Kathryn Buller	BRAIN - Brain Research Advances In Newborns

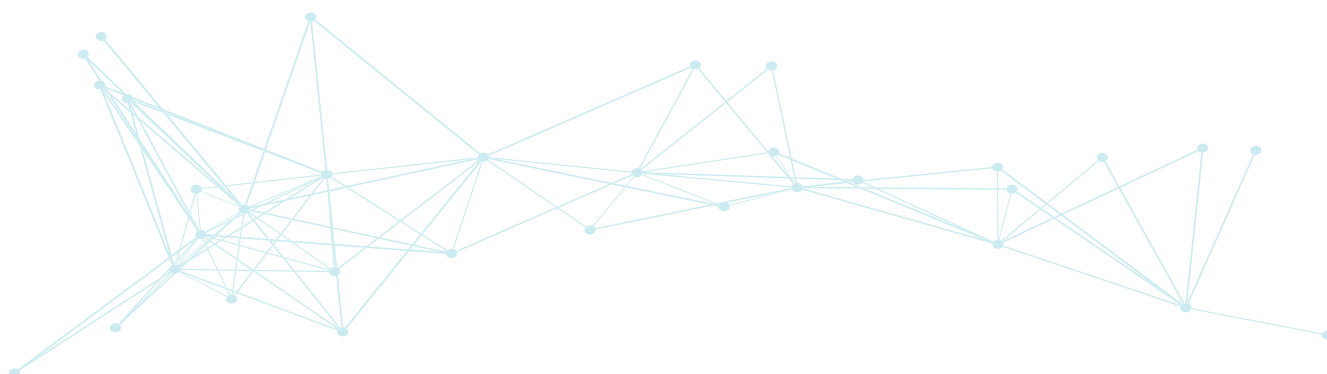
Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Stella Tracey Bjorkman	Paul Colditz, Samps Vanhatalo	Carbon dioxide as a treatment for seizures in the newborn
Boualem Boashash	Paul Colditz	Automated Neonatal EEG Quality Assessment & Improvement using Artefact Filtering and Signal Segmentation

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Boualem Boashash	Paul Colditz	Localization of EEG Abnormalities for Improving Brain Monitoring of Newborn Babies at Risk of Brain Injury using a multichannel time-frequency signal processing approach
Rebecca Pelekanos	Paul Colditz, Nicholas Fisk	Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy
Roslyn Boyd	Paul Colditz, Joanne George, Stephen Rose	PPREMO: Prediction of preterm early motor and neurodevelopmental outcomes using advanced brain imaging and an early assessment toolbox
Roslyn Boyd	Paul Colditz, Joanne George	PPREMO: Prediction of Preterm Early Motor and neurodevelopmental Outcomes
Rodney Hunt	Paul Colditz, Terrie Inder, Nadia Badawi, Simmer, Helen Liley, Osborn, Cheong, Ian Wright	A study of the impact of treating electrographic seizures in term or near-term infants with neonatal encephalopathy
Roslyn Boyd	Helen Liley, Hurrion, Stephen Rose, Wallace, Paul Dawson, Paul Colditz, Linda Richards, Luke Jardine, Gray, Justo, Corness	Optimising Neonatal Neuroplasticity: research consortium for an MRI compatible incubator at Lady Cilento Childrens Hospital and the Mater Mothers Hospital at the University of Queensland
Roslyn Boyd	Novak, Euan Wallace, Nadia Badawi, Michael Fahey, Stephen Rose, Paul Colditz, Ziviani, Elliott, Stott	Australasian Cerebral Palsy Clinical Trials Network (AusCP-CTN): optimizing interventions and effective services for children with cerebral palsy
Paul Dawson	E Hurrion, Vicki Flenady, Barbara Lingwood, Yvonne Eiby, Paul Colditz, Pieter Koorts, Kumar	Improving health outcomes for preterm infants using a preclinical Pig Translational model (PigTail study)
Andrew Wong	Coulthard, Stephen Read, Simon Finnigan	Continuous Monitoring During Acute Stroke Reperfusion Therapy
Stella Tracey Bjorkman		Seizures and injury in the newborn hypoxic-ischemic brain
Julie Wixey		Biomarkers of inflammation and neuronal injury in the hypoxic-ischemic neonate

Research Awards and Achievements

Recipient	Award	Event
Abi Ratnasingham	Winner of Best PhD Student Presentation	Queensland Perinatal Consortium (QPcT) Conference 2016: Hot Topics in Perinatal Research
Abi Ratnasingham	Three Minute Thesis (3MT) Competition 2016: Runner-Up	UQ Faculty of Medicine and Biomedical Sciences
Abi Ratnasingham	Three Minute Thesis (3MT) Competition 2016: Winner	UQ Centre for Clinical Research
Randal Moldrich	Academic Excellence, School of Medicine	Griffith University
Tracey Bjorkman	Travel Award	UQ Centre for Clinical Research
Kirat Chand	Travel Award	UQ Centre for Clinical Research
Julie Wixey	Travel Award	UQ Centre for Clinical Research
Annice Kong	Graduate School Travel Grant	UQ Graduate School



Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Paul Colditz , Julie Wixey, Susan Sullivan, Melissa Lai	Perinatal Research Centre	Protecting growth restricted newborn brains by reducing inflammation	Royal Brisbane and Women's Hospital Foundation	\$20,000	\$40,000 (2016-2017)
Paul Colditz , Melissa Lai , Stella T Bjorkman, Kirat Chand	Perinatal Research Centre	Novel approaches to protecting the newborn brain	Royal Brisbane and Women's Hospital Foundation	\$20,000	\$40,000 (2016-2017)
Paul Colditz , Barbara Lingwood, Marloes Dekker-Nitert, Tim Donovan , Peter Davies, Chong	Perinatal Research Centre	Long-term consequences of altered neonatal adiposity	Child Health @ UQ Collaborative Workshop Grants	\$4,915	\$4,915 2016
Andrew Wong, Coulthard, Stephen Read, Simon Finnigan	Perinatal Research Centre	Continuous Monitoring During Acute Stroke Reperfusion Therapy	Royal Brisbane and Women's Hospital Foundation	\$60,000	\$60,000 2016
Paul Colditz , Virginia Slaughter	Perinatal Research Centre	Is excessive fat accumulation in the weeks after preterm birth associated with poor neurodevelopmental outcome?	Faculty of Health and Behavioural Sciences and Faculty of Medicine and Biomedical Sciences Research Collaboration Seeding Grants, UQ	\$33,304	\$33,304 2016
Paul Dawson, Hurrion, Vicki Flenady, Barbara Lingwood, Yvonne Eiby, Paul Colditz , Pieter Koorts , Kumar	Perinatal Research Centre	Improving health outcomes for preterm infants using a preclinical Pig Translational model (PigTail study)	Mater Clinical Research Seeding Grant	\$20,000	\$20,000 2016
Paul Colditz , Yvonne Eiby, Sonia Sam , Susan Sullivan	Perinatal Research Centre	Effective volume expansion in preterm neonates: Cardiovascular and Cerebral outcomes	Royal Brisbane and Women's Hospital	\$20,000	\$40,000 (2015-2016)
Sonia Sam , Yvonne Eiby, Paul Colditz	Perinatal Research Centre	Is angiotensin II a better inotrope than dopamine in preterm infants?	Royal Brisbane and Women's Hospital	\$33,430	\$63,430 (2015-2016)
Julie Wixey	Perinatal Research Centre	Biomarkers of inflammation and neuronal injury in the hypoxic-ischemic neonate	The University of Queensland	\$10,000	\$10,000 2016
Paul Colditz , Roslyn Boyd, Atul Malhotra, Stephen Rose, Boualem Boashash, Michael Ditchfield, Michael Fahey, Kerstin Pannek, Randal Moldrich	Perinatal Research Centre	Neurodevelopment of the preterm infant	NHMRC Project Grant	\$329,028	\$1,645,141 (2015-2019)
Stella Tracey Bjorkman, Paul Colditz , Sampsa Vanhatalo	Perinatal Research Centre	Carbon dioxide as a treatment for seizures in the newborn	NHMRC Project Grant	\$238,630	\$850,890 (2015-2017)
Roslyn Boyd, Helen Liley, Elizabeth Hurrion, Stephen Rose, Geoffrey Wallace, Paul Dawson, Paul Colditz , Linda Richards, Luke Jardine, Gray, Robert Justo, Jonathon Corness	Perinatal Research Centre	Optimising Neonatal Neuroplasticity: research consortium for an MRI compatible incubator at LadyCilento Childrens Hospital and the Mater Mothers Hospital at the University of Queensland	UQ Major Equipment and Infrastructure	\$210,000	\$210,000 (2015-2016)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Katie Foxcroft & Katie Groom	Perinatal Research Centre	STRIDER (NZAus): A randomised controlled trial of sildenafil therapy in dismal prognosis early-onset intrauterine growth restriction (New Zealand and Australia)	University of Auckland	\$6,310	\$6,310 (2015-2017)
Katie Foxcroft, Pieter Koorts, William Tarnow-Mordi	Perinatal Research Centre	Does lactoferrin improve survival free from morbidity in very low birth weight infants? Lactoferrin Infant Feeding Trial: a randomised controlled trial	University of Sydney	\$33,000	\$33,000 (2015-2016)
Boualem Boashash, Paul Colditz	Perinatal Research Centre	Automated Neonatal EEG Quality Assessment & Improvement using Artefact Filtering and Signal Segmentation	Qatar National Research Fund	\$167,500	\$670,000 (2013-2016)
Rebecca Pelekanos, Paul Colditz, Zoe Ireland, Nicholas Fisk, Roslyn Boyd	Perinatal Research Centre	Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy	Cerebral Palsy Alliance	\$53,166	\$159,500 (2014-2016)
Roslyn Boyd, Paul Colditz, Joanne George	Perinatal Research Centre	PPREMO: Prediction of Preterm Early Motor and neurodevelopmental Outcomes	Financial Markets Foundation for Children	\$50,594	\$151,784 (2014-2016)
Paul Colditz, Matthew Sanders, Roslyn Boyd, Margo Pritchard, Peter Gray, Michael O'Callaghan, Virginia Slaughter, Koa Whittingham	Perinatal Research Centre	A randomised controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants	NHMRC Project Grant	\$199,267	\$996,335 (2012-2016)
Stella Tracey Bjorkman	Perinatal Research Centre	Lions Senior Medical Research Fellowship: Seizures and injury in the newborn hypoxic-ischemic brain	Senior Medical Research Fellowship	\$142,333	\$996,335.25 (2011-2018)
Paul Colditz, Barbara Lingwood, Kathryn Buller	Perinatal Research Centre	Brain Research Advances in Newborns (The BRAIN Project)	Royal Brisbane & Women's Hospital Research Foundation	\$115,714	\$810,000.00 (2009-2018)



2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information
Journal article	Awal MA, Lai MM, Azemi G, Boashash B, Colditz PB. EEG background features that predict outcome in term neonates with hypoxic ischaemic encephalopathy: A structured review. <i>Clin Neurophysiol.</i> 2016;127(1):285-96
Journal article	Caesar R, Boyd RN, Colditz P, Cioni G, Ware RS, Salthouse K, et al. Early prediction of typical outcome and mild developmental delay for prioritisation of service delivery for very preterm and very low birthweight infants: a study protocol. <i>BMJ open.</i> 2016;6(7):e010726.
Journal article	Chand KK, Lee KM, Lavidis NA, Noakes PG. Loss of laminin- α 4 results in pre- and postsynaptic modifications at the neuromuscular junction. <i>Faseb J.</i> 2016.
Journal article	Chand KK, Lee KM, Lavidis NA, Rodriguez-Valle M, Ijaz H, Koebach J, et al. Tick holocyclotoxins trigger host paralysis by presynaptic inhibition. <i>Sci Rep.</i> 2016;6:29446.
Journal article	Eiby YA, Shrimpton NY, Wright IM, Lumbers ER, Colditz PB, Duncombe GJ, et al. Inotropes do not increase cardiac output or cerebral blood flow in preterm piglets. <i>Pediatr Res.</i> 2016;80(6):870-9.
Journal article	Evans T, Boyd R, Colditz P, Sanders M, Whittingham K. Baby triple P for parents of a very preterm infant: a case study. <i>Journal of Child and Family Studies.</i> 2016.
Journal article	Evans T, Boyd R, Colditz P, Sanders M, Whittingham K. Mother-very preterm infant relationship quality: RCT of baby triple P <i>Journal of Child and Family Studies</i> 2016.
Journal article	Feng Y, Yang Y, Huang X, Mehrkanoon S, Suykens JA. Robust Support Vector Machines for Classification with Nonconvex and Smooth Losses. <i>Neural Comput.</i> 2016;28(6):1217-47.
Journal article	Finnigan S, Wong A, Read S. Defining abnormal slow EEG activity in acute ischaemic stroke: Delta/alpha ratio as an optimal QEEG index. <i>Clin Neurophysiol.</i> 2016;127(2):1452-9.
Journal article	Goasdoue K, Awabdy D, Bjorkman ST, Miller S. Standard loading controls are not reliable for Western blot quantification across brain development or in pathological conditions. <i>Electrophoresis.</i> 2016;37(4):630-4.
Journal article	Goasdoue K, Miller SM, Colditz PB, Bjorkman ST. Review: The blood-brain barrier; protecting the developing fetal brain. <i>Placenta.</i> 2016.
Journal article	Johnston T, Sekar R, Endo T, Moffitt T, Peterson L, Nestor I, et al. Has the Prevalence of Neural Tube Defects Decreased in Babies Born to Indigenous Mothers in Queensland? . <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> 2016;56:36.
Journal article	Lai MM, D'Acunto G, Guzzetta A, Boyd RN, Rose SE, Frupp J, et al. PREMM: preterm early massage by the mother: protocol of a randomised controlled trial of massage therapy in very preterm infants. <i>BMC Pediatr.</i> 2016;16(1):146.
Journal article	Lee A, Stevens MG, Anderson AR, Kwan A, Balcar VJ, Pow DV. A novel splice variant of the Excitatory Amino Acid Transporter 5: Cloning, immunolocalization and functional characterization of hEAAT5v in human retina. <i>Neurochem Int.</i> 2016.
Journal article	Lewindon PJ, Balouch F, Pereira TN, Puertolas-Lopez MV, Noble C, Wixey JA, et al. Transient liver elastography in unselected control children: Impact of age and intercurrent illness. <i>J Paediatr Child Health.</i> 2016;52(6):637-42.
Journal article	McIntyre HD, Sacks DA, Barbour LA, Feig DS, Catalano PM, Damm P, et al. Issues With the Diagnosis and Classification of Hyperglycemia in Early Pregnancy. <i>Diabetes Care.</i> 2016;39(1):53-4.
Journal article	Mehrkanoon S, Boonstra TW, Breakspear M, Hinder M, Summers JJ. Upregulation of cortico-cerebellar functional connectivity after motor learning. <i>Neuroimage.</i> 2016;128:252-63.
Journal article	Miller SM, Sullivan SM, Ireland Z, Chand KK, Colditz PB, Bjorkman ST. Neonatal seizures are associated with redistribution and loss of GABAA alpha-subunits in the hypoxic-ischaemic pig. <i>J Neurochem.</i> 2016;139(3):471-84.
Journal article	Mostafa SS, Awal MA, Ahmad M, Rashid MA. Voiceless Bangla vowel recognition using sEMG signal. <i>Springerplus.</i> 2016;5(1):1522.
Journal article	Murphy VE, Jensen ME, Mattes J, Hensley MJ, Giles WB, Peek MJ, et al. The Breathing for Life Trial: a randomised controlled trial of fractional exhaled nitric oxide (FENO)-based management of asthma during pregnancy and its impact on perinatal outcomes and infant and childhood respiratory health. <i>BMC Pregnancy Childbirth.</i> 2016;16:111.
Journal article	Schleiger E, Wong A, Read S, Coulthard A, Finnigan S. Improved cerebral pathophysiology immediately following thrombectomy in acute ischaemic stroke: Monitoring via quantitative EEG. <i>Clin Neurophysiol.</i> 2016;127(8):2832-3.
Journal article	Schleiger E, Wong A, Read S, Coulthard A, Finnigan S. Resolution of cerebral pathophysiology immediately following thrombectomy in acute ischaemic stroke: Monitoring via quantitative EEG. <i>Clinical Neurophysiology.</i> 2016;127:2832-33.
Journal article	Tint MT, Ward LC, Soh SE, Aris IM, Chinnadurai A, Saw SM, et al. Estimation of fat-free mass in Asian neonates using bioelectrical impedance analysis. <i>Br J Nutr.</i> 2016;115(6):1033-42.
Journal article	van Wijngaarden JB, Zucca R, Finnigan S, Verschure PF. The Impact of Cortical Lesions on Thalamo-Cortical Network Dynamics after Acute Ischaemic Stroke: A Combined Experimental and Theoretical Study. <i>PLoS Comput Biol.</i> 2016;12(8):e1005048.
Journal article	Wixey JA, Chand KK, Colditz PB, Bjorkman ST. Review: Neuroinflammation in intrauterine growth restriction. <i>Placenta.</i> 2016. Nov 25. pii: S0143-4004(16)30642-7.
Book	Boashash B, (ed.). Time-frequency signal analysis and processing: a comprehensive reference. 2nd ed. Amsterdam, Netherlands: Academic Press, 2016

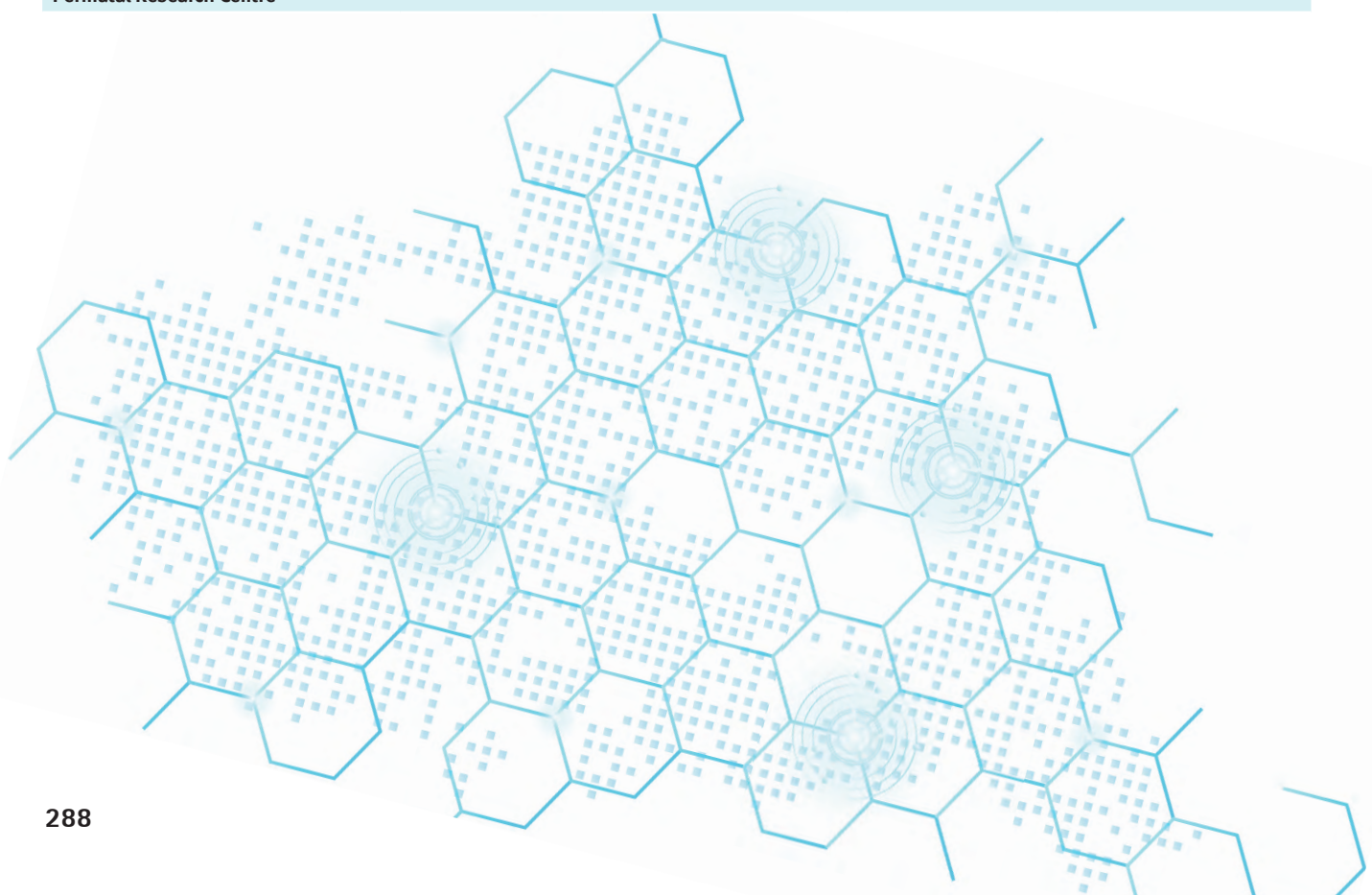
Type (Journal article / Book / Book chapter / Letter)	Publication information
Book chapter	Bjorkman ST. Origin and Detection of Neonatal Seizures: Animal and Clinical Studies. In: Walker DW, (ed.). Prenatal and Postnatal Determinants of Development. 2016, p. 343–58.
Book chapter	Boashash B, Stevenson NJ, Rankine LJ, Stevenson NJ, Azemi G, Sejdic E, Aviyente S, Akan A, Mert A, Dong S, Omidvarnia A, Zarjam P, O'Toole JM and Colditz PB. Time-frequency methodologies in neurosciences. Time-frequency signal analysis and processing: a comprehensive reference. Second edition ed. Amsterdam, Netherlands: Academic Press, 2016, p. 915–66.

Type (Oral / Poster / Invited)	Presentation information
Poster	Chand KK, Goasdoue K, Miller SM, Colditz PB, Bjorkman ST. Hypoxic ischemic brain injury activates inflammatory and apoptotic pathways in the neonate pig model. Australasian Neuroscience Society, Hobart 2016
Oral	Chand KK, Goasdoue K, Miller SM, Colditz PB, Bjorkman ST. Expression of inflammatory mediators after hypoxic-ischemic brain injury in a neonatal pig model. 30th Annual meeting Fetal and Neonatal Workshop of Australia and New Zealand, Magnetic Island, QLD, Australia 2016
Oral	Chand KK, Goasdoue K, Miller SM, Colditz PB, Bjorkman ST. Expression of inflammatory mediators after HI brain injury in a neonatal pig model, Queensland Perinatal Consortium, Brisbane 2016
Oral	Eiby Y, Bjorkman ST, Wixey JA, Chand KK, Colditz PB and Lingwood B. Pilot trial of early blood transfusions for supporting cardiovascular function and cerebral oxygen delivery in preterm piglets. 30th Annual meeting Fetal and Neonatal Workshop of Australia and New Zealand. Magnetic Island, QLD, Australia 2016.
Poster	Feng Y, Yang Y, Huang X, Mehrkanoon S, Suykens JA: Robust Support Vector Machines for Classification with Nonconvex and Smooth Losses. <i>Neural Comput</i> 2016;28:1217–1247.
Poster	Fielder M, Colditz PB, Bjorkman ST. Carbonic anhydrase VII expression in hypoxic ischaemic encephalopathy. Australasian Neuroscience Society, Hobart 2016
Oral	Goasdoue K, Miller SM, Chand KK, Wixey JA, Colditz PB and Bjorkman ST. Investigation of the impact of seizures on disruption to the blood-brain barrier following neonatal hypoxia-ischaemia. Queensland Perinatal Consortium, Brisbane, Queensland, University of Queensland 2016.
Oral	Goasdoue K, Miller SM, Chand KK, Wixey JA, Colditz PB, Bjorkman ST. A proposed study for investigation of the blood-brain barrier in neonatal seizures and hypoxic ischemic encephalopathy. 30th Annual meeting Fetal and Neonatal Workshop of Australia and New Zealand, Magnetic Island, QLD, Australia 2016
Oral	Kong A, Finnigan S, Ware R, Finn C, George J, Boyd R, Colditz PB. Early EEG indices inform prognostication of cognitive outcomes in very preterm infants. 14th International Child Neurology Congress, Amsterdam, 2016. <i>Developmental Medicine & Child Neurology</i> .
Poster	Kong A, Finnigan S, Ware R, George J, Boyd R, Colditz PB. Early EEG indices inform visual function at term equivalent age in very preterm infants. 25th Annual Royal Brisbane and Women's Hospital Healthcare Symposium, Brisbane 2016.
Poster	Mehrkanoon S, Boonstra TW, Breakspear M, Hinder M, Summers JJ: Upregulation of cortico-cerebellar functional connectivity after motor learning. <i>Neuroimage</i> 2016;128:252–263.
Poster	Miller SM, Colditz PB, Bjorkman ST. Differential expression of GABA _A receptor α_1 , α_2 and α_3 subunit in subcellular fractions. Australasian Neuroscience Society Hobart 2016
Oral	Miller SM, Sullivan SM, Ireland Z, Chand KK, Colditz PB, Bjorkman ST. Hypoxia-induced neonatal seizures are independently associated with reduced GABA _A receptor α_3 subunit expression. 30th Annual meeting Fetal and Neonatal Workshop of Australia and New Zealand, Magnetic Island, QLD, Australia 2016
Oral	Miller SM, Sullivan SM, Ireland Z, Colditz PB, Bjorkman ST. Hypoxia-induced neonatal seizures are independently associated with reduced GABA _A α_3 subunit expression. Queensland Perinatal Consortium, Brisbane 2016
Oral	Miller SM, Pelly S, Kalanjati VP, Colditz PB, Bjorkman ST. Identification and expression of a unique neonatal variant of the GABA _A receptor α_3 subunit. RBWH Symposium, Brisbane 2016
Poster	Pelly S, Miller SM, Kalanjati VP, Colditz PB, Bjorkman ST. Identification of a unique GABA _A receptor α_3 subunit splice variant. Australasian Neuroscience Society, Hobart 2016
Poster	Wixey JA, Muller C, Chand KK, Sullivan S, Colditz PB and Bjorkman ST. Neuroinflammatory response in the growth restricted neonate. Australasian Neuroscience Society Annual Scientific Meeting. Hobart, TAS, Australia 2016.
Poster	Wixey JA, Muller C, Sullivan S, Colditz PB and Bjorkman ST. Inflammation, microglial and astrocyte response in the intrauterine growth restricted neonatal brain. 25th Annual RBWH Health Care Symposium. Herston, QLD, Australia 2016.

Other communications and outputs:

Paul Colditz	Butterfly Ball	Committee member and speaker
Paul Colditz	Neonatal nursing lecture, RBWH	Invited speaker
Paul Colditz	World Prematurity Day, RBWH	Invited speaker
Paul Colditz	ABC breakfast news interview – SIDS pledge	Invited interview on National radio
Paul Colditz	Ausmed Midwifery Challenges – CPD Conference	Keynote presentation
Janet Hammill	"FASD and Disability", Dept. of Communities, Disability Service Centre, Caboolture	Invited speaker
Janet Hammill	Forensic Child & Youth Mental Health Services, Southbank, Brisbane	Invited speaker
Janet Hammill	Mater FASD Education Day	Invited speaker
Janet Hammill	AUSMED School Nurse Training, Mercure Hotel, Brisbane,	Invited speaker
Janet Hammill	Synapse AGM, Synapse, Brisbane	Article
Janet Hammill	Close the Prison Gap Conference, Mantra, Kingscliff	Invited speaker
Janet Hammill	Dept of Communities, 80 George St, Brisbane	Invited speaker
Janet Hammill	UQCCR Seminar Series	Oral presentation
Janet Hammill	Chronic Diseases Unit, University of Queensland	Invited speaker
Janet Hammill	WMB Workshop, Carrara Community Centre, Nerang	Invited speaker
Janet Hammill	Lives Lived Well Disability Community Network Team, Mantra, Kingscliff	Invited speaker

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Perinatal Research Centre	25	3	24	9



Obstetrics and Gynaecology Services

The Department of Obstetrics and Gynaecology continues to increase its activity and provides tertiary and quaternary obstetrics and gynaecology services for MNHHS and QLD. The departments are involved in multidisciplinary research to ensure the care of the women we treat and manage is contemporary and evidenced based.

The multidisciplinary services include:

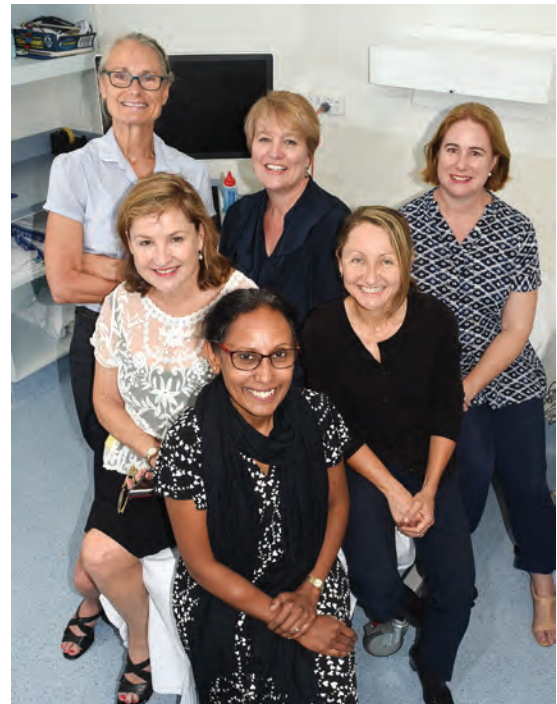
- Birthing Services and Birthing Centre.
- Antenatal Day Assessment Service.
- Obstetric Review Centre.
- Maternity Outpatients Service.
- Endocrine Service.
- Young Parents Program.
- General Practitioner Maternity shared care program.
- Team midwifery models in conjunction with obstetric care.
- Midwifery group practice.
- Eligible Private Practice Midwives.
- Inpatient Unit and Lactation Service.
- Obstetric Medicine Services and Obstetric Telehealth Services.
- Maternal Fetal Medicine and Centre for Advanced Prenatal Care.
- General gynaecology.
- Colposcopy.
- Advanced laparoscopic surgery and endometriosis services.
- Gestational trophoblastic disease.
- Acute and emergency gynaecological care.
- Early pregnancy assessment unit.
- Reproductive Endocrinology and Infertility services.
- Prolapse and incontinence surgery.
- Statewide paediatric and adolescent gynaecology.
- Multidisciplinary BRAC 1 clinic.

Maternity Services collaborate closely with the Perinatal Research Centre and UQCCR for ongoing multi-centre research projects. The Maternal Fetal Medicine unit provides a comprehensive and competitive environment for prospective and retrospective research and audits and undertakes collaborative research with other centres in Australia and New Zealand.

The Statewide Paediatric and Adolescent Gynaecology Service, Directed by Associate Professor Rebecca Kimble has received numerous research grants, both QLD and Commonwealth, are active in research and have presented and published internationally. The service now provides outreach services to the Lady Cilento Children's Hospital.

Associate Professor Chris Maher, Urogynaecologist, has been involved in international multicentre research and Cochrane reviews aimed at researching the most effective treatments for women with urogynaecological issues to improve patient outcomes.

Reproductive endocrinology and infertility is a division of the Department of Gynaecology. Professor Hayden Homer was appointed as the inaugural Christopher Chen Chair in Reproductive Medicine at UQ in 2016 and established Queensland's first Oocyte Biology Research Laboratory situated in the UQCCR. Professor Homer is the director of the lab and his research is funded by 3 NHMRC Grants worth over \$1.7M. A major aspect of his research seeks to better understand the molecular determinants of oocyte quality and to identify pathways that could be amenable to modification for reversing poor oocyte quality. This knowledge will improve the efficiency of IVF with associated reduction in risks and costs to patients. Another major objective of this research is to develop novel and less invasive approaches for female fertility preservation. Increasing cancer survivorship has increased the numbers of reproductively-aged women who survive their disease and are desirous of pregnancy. The research unit is developing agents that can possibly be administered as a simple pill to increase oocyte resilience to chemotoxicity thereby preserving fertility (termed oncofertility).



The Obstetrics and Gynaecology department collaborates with numerous other departments within Metro North Hospital and Health Service (MNHHS) as well as with UQ, UQCCR, Mater Hospital, interstate hospitals and New Zealand.

Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Goutham Subramanian	PhD, UQ (2016-2019)	The role of single-strand binding proteins in repair of DNA damage and oocyte quality	Hayden Homer , Kum Kum Khanna
Jessica Greaney	PhD, UQ (2017-2020)	The role of Sirtuin 1 in oocyte development and female fertility	Hayden Homer , Carlos Salomon-Gallo
Juvita DeLancy	PhD, UQ (2017-2019)	Sirtuin 3 regulation of oocyte quality in obesity and during ageing	Hayden Homer , Carlos Salomon-Gallo
Mohammed Altaf	PhD, UQ (2017-2019)	The role of Sirtuin 3 in male fertility and spermatogenesis	Hayden Homer , Martin Lavin
Pia Astbury	Honours, UQ (2017-2018)	Oxidative stress in human oocytes	Hayden Homer

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Position	Research Program	University Affiliation (years)
Hayden Homer	Christopher Chen Chair of Reproductive Medicine	Director of Christopher Chen Oocyte Biology Research Laboratory, UQCCR, Faculty of Medicine	UQ (2016-current)
Rebecca Kimble	Associate Professor	Faculty of Medicine	University of Queensland 2007-current
Rebecca Kimble	Adjunct Associate Professor	Faculty of Health Sciences	Queensland University of Technology
Karin Lust	Associate Professor	Faculty of Medicine	University of Queensland 2014-current

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Hayden Homer	Hayden Homer (RBWH) Prof Martin Lavin (UQ)	Senataxin-mediated repair of DNA damage during oocyte development
Hayden Homer	Hayden Homer (RBWH) Prof Kum Kum Khanna (QIMR)	Role of single strand binding proteins in DNA repair and oocyte quality
Hayden Homer	Hayden Homer (RBWH) Prof Greg Rice (UQ) Dr Carlos Salomon-Gallo (UQ)	Oocyte- and Embryo-derived exosome signalling
Hayden Homer	Hayden Homer (RBWH) Prof David Sinclair (Harvard University) Dr Lindsay Wu (UNSW)	Role of Sirtuin 2 and NAD in oocyte quality during ageing and chemotherapy
Hayden Homer	Hayden Homer (RBWH) Queensland Fertility Group	Human oocyte quality

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Kenneth Beagley (QUT), A/Prof Anusch Yazdani (RBWH)	Hayden Homer (RBWH)	Chlamydia infection and ovarian reserve
Prof Vicki Flenedy, University Auckland Dr Katie Groom)	Dr Yogesh Chadha	My Baby Moves
Prof Michael Beckman	A/ P Rebecca Kimble	PINC trial
University Auckland Dr Katie Groom)	Dr Renuka Sekar	Stridor

Research Awards and Achievements

Recipient	Award	Event
Amanda Wee, Associate Professor Rebecca Kimble	Session Prize Winner Vaginal Dilatation for vaginal reconstruction in congenital anomalies: Ten Years' Experience at an Australian Quaternary Paediatric and Adolescent Gynaecology Service	Royal College of Obstetricians and Gynaecologists World Congress, Birmingham 20-22 June 2016
Lawrence Josey, Associate Professor Chris Maher	Phillips Medical System Prize	RANZCR Annual Scientific meeting

Research Grants - Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Hayden Homer (CIA) David Sinclair (CIB) Lindsay Wu (CIC)	Oocyte Biology Research Lab, UQCCR/Laboratory for Ageing, UNSW	Female reproductive health preservation by Nicotinamide Adenine Dinucleotide (NAD+) and Sirtuin2 (SIRT2)	NHMRC	\$143,661.00	\$410,983.00 (2016-2018)
Hayden Homer (CIA) Robert Gilchrist (CIB) John Carroll (CIC) William Ledger (CID)	Oocyte Biology Research Lab, UQCCR/School of Women's & Children's Health, UNSW/Monash University	A BubR1-centred network for non-invasively measuring human oocyte quality	NHMRC	\$173,538.50	\$515,615.50 (2015-2017)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Homer H , Rice GE, Salomon C. Embryo- and endometrium-derived exosomes and their potential role in assisted reproductive treatments-liquid biopsies for endometrial receptivity. <i>Placenta</i> . 2016 Dec 9. doi: 10.1016/j.placenta.2016.12.011.
Journal Article	Rebecca Kimble, Genevieve Molloy, Bridget Sutton, Partial Cervical Agenesis and Complete Vaginal Atresia. <i>Journal of Pediatric and Adolescent Gynecology</i> 29(2016) e43-e 47
Journal Article	Rebecca MN Kimble , Ying He, Peter Borzi Successful Pregnancy outcome and surgical approach in women with repaired Bladder Extrophy or Cloacal Extrophy- Experience from a quaternary paediatric and adolescent gynaecology centre in Australia. <i>Journal of Pediatrics and Congenital Disorders</i> 1: 1-5
Journal Article	Mowat A, Maher C , Ballard E. Surgical outcomes for low-volume vs high-volume surgeons in gynecology surgery: a systematic review and meta-analysis. <i>American journal of obstetrics and gynecology</i> . 2016;215(1):21-33
Journal Article	Haylen BT, Maher CF , Barber MD, Camargo S, Dandolu V, Digesu A, et al. An International Urogynecological Association (IUGA) / International Continence Society (ICS) Joint Report on the Terminology for Female Pelvic Organ Prolapse (POP). <i>Neurourology and urodynamics</i> . 2016;35(2):137-68.
Journal Article	Maher C , Feiner B, Baessler K, Christmann-Schmid C, Haya N, Marjoribanks J. Transvaginal mesh or grafts compared with native tissue repair for vaginal prolapse. <i>The Cochrane database of systematic reviews</i> . 2016;2:CD012079.
Journal Article	Haylen BT, Maher CF , Barber MD, Camargo S, Dandolu V, Digesu A, et al. An International Urogynecological Association (IUGA)/ International Continence Society (ICS) joint report on the terminology for female pelvic organ prolapse (POP). <i>International urogynecology journal</i> . 2016;27(4):655-8
Journal Article	Costantini E, Brubaker L, Cervigni M, Matthews CA, O'Reilly BA, Maher CF . Sacrocolpopexy for pelvic organ prolapse: evidence-based review and recommendations. <i>European journal of obstetrics, gynecology, and reproductive biology</i> . 2016;205:60-5
Journal Article	Christmann-Schmid C, Wierenga AP, Frischknecht E, Maher C . A Prospective Observational Study of the Classification of the Perineum and Evaluation of Perineal Repair at the Time of Posterior Colporrhaphy. <i>Female pelvic medicine & reconstructive surgery</i> . 2016;22(6):453-9.
Journal Article	Maher C , Feiner B, Baessler K, Christmann-Schmid C, Haya N, Brown J. Surgery for women with apical vaginal prolapse. <i>The Cochrane database of systematic reviews</i> . 2016;10:CD012376.
Journal Article	Maher C , Feiner B, Baessler K, Christmann-Schmid C, Haya N, Brown J. Surgery for women with anterior compartment prolapse. <i>Cochrane Database of Systematic Reviews</i> 2016, Issue 11. Art. No.: CD004014. DOI: 10.1002/14651858.CD004014.pub6

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral (Invited)	Homer H . Reversing the age-related decline in oocyte quality. <i>Scientists in Reproductive Technology Annual Conference, Adelaide, April 2016</i>
Oral (Invited)	Homer H . Sirtuin regulation of meiotic maturation in oocytes. <i>Australian Biology of Ageing Conference, Sydney, April 2016</i>
Oral (Invited)	Homer H . Turning back the clock for aged eggs. <i>UQ Global Leadership Series – Frontiers in Fertility, July 2016</i>
Oral (Invited)	Homer H . Determinants of Gamete Quality. <i>Society for Reproductive Biology, Annual Scientific Meeting, Gold Coast, August 2016</i>
Oral (Oozoa Award Finalist)	Loh W.G., Wu, L, Riepsamen, A, Sinclair, D, Homer, H . SIRT2 regulates mammalian female meiosis via APC-independent proteolysis. <i>Society for Reproductive Biology, Annual Scientific Meeting, Gold Coast, August 2016</i>
Oral (Invited)	Kimble R, Wee A . Vaginal Dilatation for vaginal reconstruction in congenital anomalies: Ten Years' Experience at an Australian Quaternary Paediatric and Adolescent Gynaecology Service. <i>Oral Presentation RCOG World Congress Birmingham, United Kingdom, June 2016</i>
Oral (Invited)	Kimble R . 10th International Trauma Conference Hokkaido: Trauma and the pregnant patient- Is it time for a seatbelt campaign. <i>Japan, January 2016</i>
Oral	Tyler J, Lee J, Gray L, Knack B, Kimble R . Lactation Society Conference Australia and New Zealand: Queensland Clinical guidelines: Implementation strategies to support breastfeeding initiation. <i>Melbourne, October 2016</i>
Oral	Lee J, Knack B, Gray L, Sutherns S, Koorts P , Dawson, Kimble R . Perinatal Society of Australia and New Zealand 20 th Annual Congress: Perinatal care at the threshold of viability-An opinion survey in Queensland. <i>Townsville, May 2016</i>

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Gray L, Lee J, Knack B, Sutherns S, Koorts P , Dawson, Kimble R . International Normal Labour and Birth Conference: Translation of Normal Labour and Birth Research and Implementation of a Statewide Normal Birth Guideline. Sydney, October 2016
Poster	Kimble R , Molloy G, Sutton B. World Congress of Paediatric and Adolescent Gynaecology: Limitations of MRI in diagnosis of the complex combined condition of Vaginal Agenesis and partial cervical agenesis. Florence, June 2016
Oral (Invited)	Maher C . UGSA: ASM sacral colpopexy tips and tricks. Auckland, March 2016
Oral (Invited)	Maher C . UGSA ASM Cochrane review: contemporary transvaginal mesh. Auckland, March 2016
Oral (Invited)	Maher C . UGSA ASM Surgical management of pelvic organ prolapse. Auckland, March 2016
Oral (Invited)	Maher C . Malaysian Urogynaecology Society Live surgery workshop. Penang, April 2016
Oral (Invited)	Maher C . Malaysian Urogynaecology Society: Surgical management of recurrent anterior wall prolapse. Penang, April 2016
Oral (Invited)	Maher C . Malaysian Urogynaecology Society: Surgical management of apical prolapse. Penang, April 2016
Oral (Invited)	Maher C . International Consultation Incontinence: Surgical management of pelvic organ prolapse. Tokyo, September 2016
Oral (Invited)	Maher C . UGSA mid urethral sling education day Western University. Sydney, August 2016
Oral (Invited)	Maher C . UGSA mid urethral sling education day MERF Brisbane
Oral (Invited)	Maher C . RANZCOG Perth ASM Vascular complications Urogynaecology. Perth, October 2016
Oral (Invited)	Maher C . Continence Foundation Australia ASM Are all tapes the same? Adelaide, November 2016
Oral (Invited)	Maher C . RBWH Urogynaecology twilight Education. November 2016
Oral (Invited)	Maher C . AGES Cadaver education course Anatomy of the retropubic space MERF. Brisbane 2016
Oral (Invited)	Homer H Reversing the age-related decline in oocyte quality: Can we turn back the clock? EVE Health Clinical Update Meeting, Brisbane, March 2016
Oral (Invited)	Homer H Female fertility preservation: Current status and future challenges. RBWH Cancer Care Research Forum, April, 2016
Oral (Invited)	Homer H The effects of ageing on the oocyte. QFG Nurse's Education Day, July, 2016
Oral (Invited)	Hayden H Age-related decline in female fertility: Can we turn back the clock? UQ Pathology Grand Rounds, July, 2016
Oral (Invited)	Hayden H Reversing the age-related decline in oocyte quality: Can we turn back the clock? Monash IVF Meeting, August 2016
Oral (Invited)	Hayden H Infertility. Brisbane Open House, Public Seminars, October 2016
Oral (Invited)	Hayden H Understanding oocyte biology: is it possible to reverse poor oocyte quality? Queensland Scientists in Reproductive Technology Education Meeting, October, 2016
Oral (Invited)	Hayden H Effects of ageing on the oocyte. Queensland Fertility Nurses of Australia Meeting, December 2016

Other communications and outputs

Media coverage of research:

Fertility improved, infertility 'reversed' in mice: promising new research. The Sydney Morning Herald. May 2nd 2016.

www.smh.com.au/nsw/fertility-improved-infertility-reversed-in-mice-promising-new-research-20160501-gojoc.html

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Obstetrics and Gynaecology	11	0	31	1

Queensland Centre for Gynaecological Cancer

The Queensland Centre for Gynaecological Cancer (QCGC) is a state-wide service for the management of women with gynaecological cancer. QCGC Research is the research branch of QCGC. The Director of QCGC Research is Professor Andreas Obermair who leads and develops the unit to produce meaningful research outcomes.

QCGC Research's mission is to research and develop the best standard of care for women experiencing gynaecological cancer. This may include finding causes for and preventing gynaecological cancer; and finding better treatment options to cure women affected by gynaecological cancer.

QCGC Research's focus is on conducting surgical clinical trials in the field of gynaecological cancer but we also perform groundbreaking work outside the conventional clinical trials framework.

Our research is funded partly by competitive research grants (NHMRC project grants, smart state research grants, Cancer Australia), by support from individual and corporate donors as well as from fundraising events.

Our research activities help improve patient outcomes by researching the most effective treatment for women with gynaecological cancers.

In 2016 we received funding to complete Long Term Follow-Up of the Laparoscopic Approach to Carcinoma of the Endometrium (LACE) Trial. The LACE Trial evaluated the safety of laparoscopic hysterectomy and included 760 participants. We are now looking at long term quality of life, health and lifestyle following surgical treatment for endometrial cancer. Also in 2016 we continued recruiting for the ECHO Trial which examines the benefits of exercise during chemotherapy for ovarian cancer. This study is a collaboration between the Queensland University of Technology, NHMRC Clinical Trials Centre and QCGC Research. The femMe trial, which allows a large number of women to have effective treatment of their endometrial cancer without the need for major surgery and its implications, expanded in 2016 with further sites beginning recruitment.



Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Prof Andreas Obermair	Monika Janda (QUT) Peta Forder (Uni of Newcastle) Jim Nicklin (Gyn Onc) Lewis Perrin (Mater) Tom Manolitsas (Monash) Yee Leung (KEMH) Russell Hogg (Westmead) Rhonda Farrell (Royal Hosp Women) Martin Oehler (Royal Adelaide Hosp) Peter Sykes (Christchurch) Merran Williams (Bloomhill Cancer Care) Val Gebski (Uni of Sydney)	Long-term follow-up of the Laparoscopic Approach to Carcinoma of the Endometrium (LACE) Trial-survival outcomes.
Prof Andreas Obermair	Jim Nicklin (Gyn Onc) Russell Land (Gyn Onc) Andrea Garrett (Gyn Onc) Amy Tang (Gyn Onc) Lewis Perrin (Mater) Marcelo Nascimento (GCUH) Jonathan Carter (Chris O'Brien) Orla McNally (The Women's) Kym Reid (Monash) Yee Leung (KEMH) Stuart Salfinger (SIOG) Peter Sykes (Christchurch) Cecile Bergzoll (Wellington) Lois Eva (Auckland)	A Phase II Randomised Clinical Trial of Mirena® ± Metformin ± Weight Loss Intervention in Patients with Early Stage Cancer of the Endometrium.
Prof Andreas Obermair Paul Thomas	Jim Nicklin (Gyn Onc) Russell Land (Gyn Onc) Andrea Garrett (Gyn Onc) Amy Tang (Gyn Onc)	Impact of gated PET/CT on the diagnosis of distant metastases of advanced epithelial ovarian, fallopian tube, and primary peritoneal cancer.
Prof Andreas Obermair	Nigel Armfield (UQ) Tetske Heijink (Research Intern) A/Prof Frances Boyle (UQ School of Public Health) Prof Monika Janda (QUT)	LivEs - Exploring women's lived-experiences of ovarian cancer

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Sandi Hayes (QUT)	Prof Andreas Obermair (Gyn Onc) Jim Nicklin (Gyn Onc) Russell Land (Gyn Onc) Andrea Garrett (Gyn Onc) Amy Tang (Gyn Onc)	A Phase III randomised controlled trial of exercise during chemotherapy for patients commencing first line treatment for ovarian cancer
Pedro Ramirez (MD Anderson USA)	Prof Andreas Obermair (Gyn Onc) Jim Nicklin (Gyn Onc) Russell Land (Gyn Onc) Andrea Garrett (Gyn Onc)	A Phase III Randomized Clinical Trial Comparing Laparoscopic or Robotic Radical Hysterectomy versus Abdominal Radical Hysterectomy in Patients with Early Stage Cervical Cancer

Research Grants – Awarded

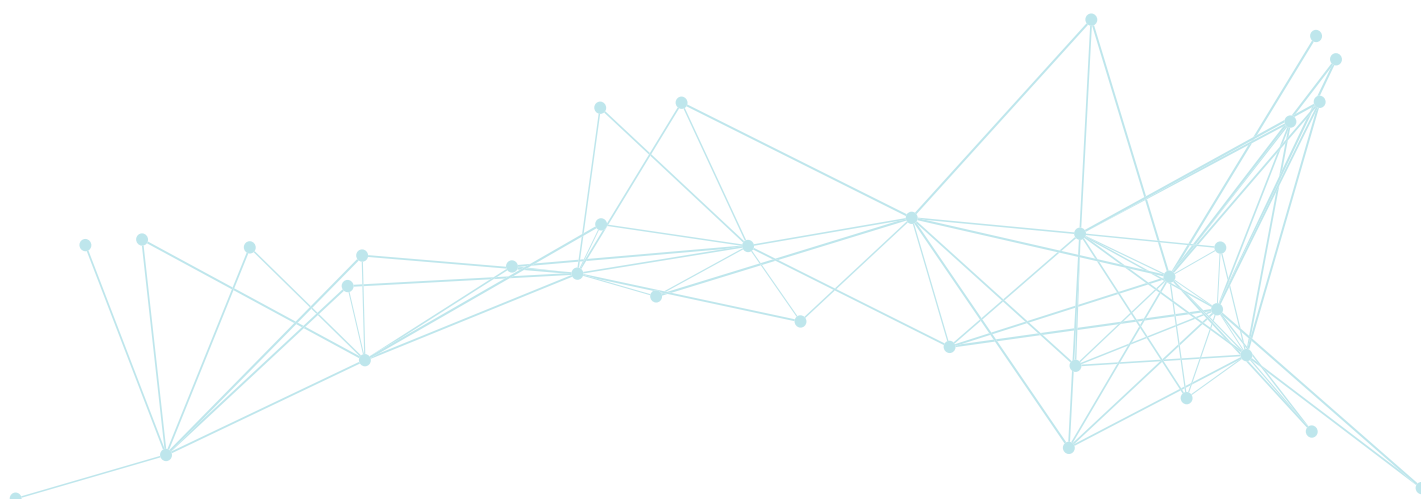
Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Obermair A , Quinn M, Brennan D, Armes J, Janda M, GebSKI V, Carter J, Leung Y, Perrin L, Bunting M, Oehler M, Nicklin J , Strakosch C, Williams M	QCGC Research	A phase II randomised clinical trial of Mirena ± metformin ± weight loss intervention in patients with early stage cancer of the endometrium	Cancer Australia	\$220,000	\$540,000 (2015-2018)
Obermair A , Janda M, Forder P, Nicklin J , Perrin L, Manolitsas T, Leung Y, Hogg R, Farrell R, Oehler M, Sykes P, Williams M, GebSKI V.	QCGC Research	Long-term follow-up of the Laparoscopic Approach to Carcinoma of the Endometrium (LACE) Trial-survival outcomes.	Cancer Australia	\$126,891	\$380,674 (2016-2018)

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Obermair A , Brennan DJ, Baxter E, Armes JE, GebSKI V, Janda M. Surgical safety and personal costs in morbidly obese, multimorbid patients diagnosed with early-stage endometrial cancer having a hysterectomy. <i>Gynecol Oncol Res Pract.</i> 2016 Feb 9;3:1. eCollection 2016.
Journal article	Obermair H, Janda M, Obermair A . Real-world surgical outcomes of a gelatin-hemostatic matrix in women requiring a hysterectomy: a matched case-control study. <i>Acta Obstet Gynecol Scand.</i> 2016 Sep;95(9):1008-14.. Epub 2016 Jun 10.
Journal article	Obermair A , Youlden D, Baade P, Janda M. Do breast cancer survivors benefit from prophylactic removal of uterus and ovaries? A population-based data linkage replication study. <i>Asia Pac J Clin Oncol.</i> 2017 Feb;13(1):68-78. Epub 2016 May 27.
Journal article	McGrath S ; Nicklin J . Clinicopathological study of ovarian carcinoid tumours. <i>Australian and New Zealand Journal of Obstetrics & Gynaecology</i> Volume: 56 Issue: 5 Pages: 508-513 Published: October 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
QCGC Research	4	0	3	0



Grantley Stable Neonatal Unit

The Grantley Stable Neonatal Unit (GSNU) continues to have an interest in a varying number of research opportunities. We have an ongoing involvement in neonatal multicentre trials such as Supreme (Neuroprotective role of sulphate among preterm babies), NEST (A Multicentre trial on treatment of Electrographic versus clinical seizures in term newborns) and LIFT (Lactoferrin Infant feeding trial). GSNU closely collaborates with the Perinatal Research Centre to translate animal research into clinical practise.

A collaborative effort between the GSNU, RBWH Milk Bank, University of Queensland and RBWH Pharmacy department resulted in an ongoing body of work on the effect of pasteurisation on vitamin D and trace elements. This work will be expanding in 2017.

Support for our neonatal advanced trainees have resulted in diverse body of work, including work with the RBWH Milk Bank, where we showed an improved patient outcome with the concurrent use of probiotics and pasteurised donor human milk, NeoRESQ (Neonatal Retrieval Emergency Service South East Queensland) and palliative care.

Our staff was involved in a Queensland wide analysis of the antenatal detection, place of birth and outcome for all infants with critical Congenital Heart Disease. Through the QMPQC (Queensland Maternal and Perinatal Quality Council) we have obtained consensus of a more extended antenatal screen which includes standard cardiac outlet views and have provided this information to hospitals as well as presenting at national and state seminars.

Infant Nutrition: We have continued to define the outcomes with current nutrient intakes including innovative insights into the body composition outcomes in very preterm infants particularly finding that at term corrected age lean body mass has a significant deficit and that adiposity (%fat mass) is excessive. During this year we obtained a grant to study the interaction of the growth/body composition in our nursery cohort with the neurocognitive and Metabolic Syndrome risks ie. Risk of early hypertension, coronary/cerebrovascular disease and type 2 diabetes) at 7 years of age.

Cost of Regional Screening for ROP: We completed a study of the economic costs to the health budget of having infants at risk of ROP screened using current methods. This has been used to inform comparisons between other models of regional ROP screening including the use of retinal imaging in regional hospitals and is now being published nationally.

2017 will be an exciting year for the GSNU as the unit sets about collating all the current research into a research group, which will facilitate all current and future research in the unit and will provide assistance to interested staff from all streams.



Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Fabio Gomes	PhD completed 2016, UQ	Development of an assay for total vitamin D content in milk and application to study the effect of pasteurisation in breast milk	Karen Whitfield, Mark Davies, Pieter Koorts, David Cartwright
Nor Hidayah Mohd Taufek	PhD, University of Queensland	Effect of pasteurisation on trace elements in breast milk	Karen Whitfield, Mark Davies, Pieter Koorts
Donna Franklin	PhD, University of Queensland	The use of high-flow nasal oxygen for bronchiolitis	Mark Davies
Luke Jardine	PhD, University of Queensland	Neonatal general movement detection with accelerometers and prediction of neurodevelopmental outcome.	Mark Davies , Paul Colditz

Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Pieter Koorts	Mark Davies, Katherine White, Garry Inglis, Adam Hoellering	Propofol compared to Morphine and Midazolam for sedation for intubation in infants.
Deborah Gilmour	Mark Davies	NeoStress: Measurement of sound, light and vibrations on neonatal transport
Karen Whitfield	Mark Davies	GRID study (gentamycin regimen infant dosage study)
Didier Tshamala	Mark Davies, Anita Pelecanos	Donor human milk availability and breastfeeding: a retrospective cohort study
Janet Sharpe	Pieter Koorts, Mark Davies, Mandy Way	The availability of probiotics and donor human milk and mortality and morbidity in very preterm infants
Jasmine Antoine	Mark Davies, Garry Inglis	Endotracheal tube aspirate cultures and neonatal chronic lung disease
Didier Tshamala	Mark Davies, Adam Hoellering	The movement of umbilical venous catheters in neonates.

Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Dr Paul Dawson, Professor Nadia Badawi, Professor Roslyn Boyd, A/Professor Vicki Flenady, Dr Elizabeth Hurrion, Professor Francis Bowling, Dr Pieter Koorts, Professor Sailesh Kumar	Pieter Koorts	Neuroprotective role of sulphate among preterm babies (SuPreme study)
Deanne August	Li-An Collie	Nepira study (Neonatal skin injury and pressure injury risk assessment).
Jeanie Cheong, Peter Dargaville, Rod Hunt, Prof Nadia Badawi, Dr Marilyn Rochefort, A/Prof Zsuzsoka-Kecskes, Helen Liley, Paul Colditz, Karen Simmer, Ian Wright, Andrew McPhee, Terrie Inder	Pieter Koorts	Neonatal Electrographic Seizure Trial (NEST) A Multicentre trial on treatment of Electrographic versus clinical seizures in term newborns
William Tarnow-Mordi, Kei Lui, Roger Soll, Paolo Manzoni, Deborah Schofield	Pieter Koorts	LIFT (Lactoferrin Infant feeding trial)

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Dr Paul Dawson, Professor Nadia Badawi, Professor Roslyn Boyd, A/Professor Vicki Flenady, Dr Elizabeth Hurrion, Professor Francis Bowling, Dr Pieter Koorts, Professor Sailesh Kumar	Neonatology	Neuroprotective role of sulphate among preterm babies (SuPrime study)	NHMRC	\$144,087	\$720,437 (2015-2019)
Associate Professor Tim Donovan, Dr Barbara Lingwood, Professor Paul Colditz	Neonatology, UQ Centre for Clinical Research	Optimising brain development through rationally based nutritional interventions in preterm infants	Royal Brisbane and Women's Hospital		2014-2016

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal Article	Mohd-Taufek, Nor, Cartwright, David, Davies, Mark , Hewavitharana, Amitha K., Koorts, Pieter , Shaw, Paul N., Sumner, Ronald, Lee, Eugene and Whitfield, Karen . The simultaneous analysis of eight essential trace elements in human milk by ICP-MS. Food Analytical methods, 2016;9(7):1-8
Journal Article	Mohd-Taufek, Nor, Cartwright, David, Davies, Mark , Hewavitharana, Amitha K., Koorts, Pieter , Shaw, Paul N, Whitfield, Karen . To investigate the effect of the pasteurisation process on trace elements in donor breast milk. Archives of Disease in Childhood. September 2016;101(9):e2.20-e2
Journal Article	Gomes, Fabio, Shaw, Paul N, Whitfield, Karen, Koorts, Pieter , Hewavitharana, Amitha K. Effect of pasteurisation on the concentrations of vitamin d compounds in donor breast milk. Archives of Disease in Childhood 2016 September; 101(9):e2.19-e2
Journal Article	Mohd-Taufek, Nor, Cartwright, David, Davies, Mark , Hewavitharana, Amitha K., Koorts, Pieter , Shaw, Paul N, Whitfield, Karen . The effect of pasteurization on trace elements in donor breast milk. Journal of perinatology June 2016; 36(10)
Journal Article	Gomes, Fabio, Shaw, Paul N, Whitfield, Karen, Koorts, Pieter , Hewavitharana, Amitha K. Effect of pasteurisation on the concentrations of Vitamin D compounds in donor breastmilk. International Journal of Food Sciences and Nutrition January 2016; 67(1):16-19
Journal Article	Deborah Gilmour, Mark W Davies , Anthony R Herbert. Adequacy of palliative care in a single tertiary neonatal unit. Journal of Paediatrics and Child health February 2017; 53(2): 136-144. First published online 4 October 2016.
Book Chapter	Armfield, Nigel R. and Donovan, Tim . Acute care telemedicine. In Halit Eren and John G. Webster (Ed.), Telemedicine and electronic medicine (pp. 597-618)
Book Chapter	Donovan, Tim . Critical Congenital Heart Disease: Birth hospital level and antenatal detection, Qld 2007-2011. Chapter in Maternal and Perinatal Mortality and Morbidity Report 2015. Published Feb 2016
Journal Article	Lai, Melissa M. , D'Acunto, Giulia, Guzzetta, Andrea, Boyd, Roslyn N., Rose, Stephen E., Fripp, Jurgen, Finnigan, Simon, Ngenda, Naoni , Love, Penny, Whittingham, Koa, Pannek, Kerstin, Ware, Robert S. and Colditz, Paul B . PREMM: preterm early massage by the mother: protocol of a randomised controlled trial of massage therapy in very preterm infants. BMC Pediatrics 16(146)
Journal Article	Cartwright, David W . Nasal High-Flow Therapy for Primary Respiratory Support in Preterm Infants. New England Journal of Medicine 2016 September; 375(September 22):12
Journal Article	Flint A, New K, Davies MW . Cup feeding versus other forms of supplemental enteral feeding for newborn infants unable to fully breastfeed Cochrane Database Syst Rev 2016, Issue 8. Art. No.: CD005092. DOI: 10.1002/14651858.CD005092.pub3.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral, invited	Donovan T , Al Theyab N, Lingwood B, Colditz P . Growth and body composition in extremely preterm infants is altered early. International Conference on Developmental Origins of Adiposity and Long –term Health: The Power of Programming. Munich, Oct 2016
Oral	Johnston T, Sekar R , Donovan T , Colditz P, Moffitt T, Endo T, Petersen L. Has the prevalence of neural tube defects decreased in babies born to indigenous mothers in Qld? RANZCOG Annual Scientific Meeting, Perth, 2016
Oral, Invited	Donovan T , Endo T, Johnson T, Colditz P . Place of birth for cCHD infants in Qld 2007-2011. Qld Maternal and Perinatal Quality Council Seminar. Brisbane, June 2016
Oral	Sharpe J , Way M, Koorts P , Davies, M . The availability of probiotics and donor human milk improves mortality and morbidity in very preterm infants. Oral presentation at the Inaugural International Milk Bank Conference, Brisbane, July 2016
Oral	Karen Whitfield , Pieter Koorts , David Cartwright , Mark Davies . The effect of pasteurisation on vitamin D levels and trace elements in donor milk. Oral presentation at the Inaugural International Milk Bank Conference, Brisbane, July 2016

2016 Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
Neonatology	9	2	5	0



Department of Obstetric Medicine

Obstetric medicine's research program aims to address the needs of women with complex pregnancies and improve outcomes for mother and infant. We have two NHMRC funded studies running currently: the SPRING study of probiotics to prevent GDM and the Breathing for Life trial of FENO guided treatment for asthma in pregnancy. Related to the SPRING study, we have strong collaborative links with UQ, Mater Health, for both clinical and laboratory microbiome analyses studies. Other current research studies include several examining maternal metabolism: ketones and lipids in women with diabetes in pregnancy, dietetic interventions aimed at addressing maternal weight gain in pregnancy, lactation in women with Type 2 Diabetes, anaesthetic issues in women with obesity complicating pregnancy.

In 2016, we published 16 peer reviewed manuscripts in journals including Diabetes, Diabetes Care, and two book chapters.



Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Dr Victoria Eley	PhD, UQ, (2015-2017)	Clinical guidelines relating to the anaesthetic management of obese parturients: An evaluation of their clinical utility and supporting evidence	Leonie Callaway,
Luisa Gomez Arango	PhD, UQ 2014-2017	Microbiome in pregnancy	Leonie Callaway, Dr Marloes Dekker Nitert
Dr Kristine Matusiak	MPhil, UQ 2012-2017	Effects of preconception weight loss on the HPA axis	Dr Marloes Dekker Nitert, Leonie Callaway
Dr Helen Robinson	PhD, UQ (2014-)	Carbohydrate Restriction in the Management of Gestational Diabetes	Leonie Callaway, Helen Barrett, Marloes Dekker Nitert
Dr Fiona Britten	PhD, UQ (2014 -)	Breastfeeding in women with Type 2 diabetes	Emma Duncan, Leonie Callaway
Angela North	Masters, UQ (2016-)	Therapeutic heparin antenatal and peripartum	Karin Lust, Karen Whitfield, Helen Barrett
William Carrey-Foster	BSc (Hons), UQ 2016, First Class	Prevalence of antibiotic resistance genes in the gut microbiome of pregnant women	Helen Barrett, Marloes Dekker Nitert

Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Obstetric Medicine/ Rheumatology	Katherine Poulsen (TPCH), Claire Barrett (Redcliffe), Laurel Young (Redcliffe), Helen Barrett	Pregnancies exposed to biologics (PEB) study
Obstetric Medicine/ID/Dietetics	Callaway LK , Dekker Nitert M, Patterson D , Barett HL , de Jersey S	Is the resistome in the gut microbiome in pregnant women changing pregnancy outcomes?
Obstetric Medicine/Dietetics	Robinson H, Barrett HL , Dekker Nitert M, Callaway L , de Jersey S	Assessing ketone production after a meal with restricted carbohydrate in women with gestational diabetes mellitus
Obstetric Medicine/ Endocrinology/Dietetics	Barrett HL , Dekker Nitert M, Callaway L , McIntyre HD, D'Emden M , de Jersey S	Postprandial triglycerides in diabetes in pregnancy: A pilot study

Collaborative Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
Murphy V, Gibson P, Hensley M, Mattes J, Giles W, Peek M, Bisits A, McCaffery K	L Callaway , P Colditz , H Barrett	Breathing for Life Trial

Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Murphy V, Gibson P, Hensley M, Mattes J, Giles W, Peek M, Bisits A, Callaway L , McCaffery K, Barrett H	Obstetric Medicine	The Breathing for Life Trial (BLT): A randomized trial of fractional exhaled nitric oxide based management of asthma during pregnancy and its impact on perinatal outcomes and infant and childhood respiratory health.	NHMRC APP 1060983	\$329,581	2014-2018.. \$1,647,906.
Callaway LK , Dekker Nitert M, Patterson D , Barett HL , de Jersey S	Obstetric Medicine/ID/Dietetics	Is the resistome in the gut microbiome in pregnant women changing pregnancy outcomes?	Royal Brisbane and Women's Hospital Foundation research advisory committee	\$38968	2016 \$38968
Robinson H, Barrett HL , Dekker Nitert M , Callaway L , de Jersey S	Obstetric Medicine/Dietetics	Assessing ketone production after a meal with restricted carbohydrate in women with gestational diabetes mellitus	Royal Brisbane and Women's Hospital Foundation research advisory committee	\$40000	2016 \$40000
Barrett HL , Dekker Nitert M, Callaway L , McIntyre HD, D'Emden M , de Jersey S	Obstetric Medicine/Endocrinology/ Dietetics	Postprandial triglycerides in diabetes in pregnancy: A pilot study	Postprandial triglycerides in diabetes in pregnancy: A pilot study	\$36,740	2016 \$36740.00

2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Petrie S, Barras M, Lust K , Fagermo N, Allen J, Martin J H . Evaluation of therapeutic enoxaparin in a pregnant population at a tertiary hospital. <i>Internal Medicine Journal</i> . 46;7 July 2016
Book chapter	Karin Lust Chapter , 3rd edition Examination Obstetrics and Gynaecology. By Judith Goh and Michael Flynn 2016
Journal article	Pelzer, E., Gomez-Arango, L.F, Barrett, H.L. , M., Dekker Nitert, M. (2016). Review: Maternal health and the placental Microbiome. <i>Placenta</i> S0143-4004(16)30649-X.doi: 10.1016/j.placenta.2016.12.003
Journal article	Gallo, L.A., Barrett, H.L. , M., Dekker Nitert, M. (2016). Review: Placental transport and metabolism of energy substrates in maternal obesity and diabetes. <i>Placenta</i> doi:10.1016/j.placenta.2016.12.006
Journal article	Barrett HL , McIntyre H.D., D'Emden M, Dekker Nitert M Callaway L.K., Home monitoring of fasting and postprandial triglycerides in late pregnancy: A pilot study, <i>Diabetes Care</i> 2016. 40(1):e1-e2
Journal article	Gomez-Arango LF, Barrett HL , McIntyre HD, Callaway LK, Morrison M, Nitert MD, SPRING Trial Group. Increased Systolic and Diastolic Blood Pressure Is Associated With Altered Gut Microbiota Composition and Butyrate Production in Early Pregnancy. <i>Hypertension</i> . 2016 Oct;68(4):974-81
Journal article	Gomez-Arango, L., Barrett, HL , McIntyre, H.D., Callaway, L.K., Morrison, M., Dekker Nitert, M. (Accepted for publication 14 May 2016). Connections between the gut microbiome and metabolic hormones in early pregnancy in overweight and obese women. <i>Diabetes</i> . Aug;65(8):2214-23.
Journal article	Murphy VE, Jensen ME, Mattes J, Hensley MJ, Giles WB, Peek MJ, Bisits A, Callaway LK, McCaffery K, Barrett HL , Colditz PB, Seeho SK, Attia J, Searles A, Doran C, Powell H, Gibson PG. The Breathing for Life Trial: a randomised controlled trial of fractional exhaled nitric oxide (FENO)-based management of asthma during pregnancy and its impact on perinatal outcomes and infant and childhood respiratory health. <i>BMC Pregnancy Childbirth</i> . 2016 May 17;16:111
Journal article	Sekar R , Khatun M, Barrett HL , Duncombe G. A prospective pilot study in assessing the accuracy of ultrasound estimated fetal weight prior to delivery. <i>Aust N Z J Obstet Gynaecol</i> . 2016 Feb;56(1):49-53
Book chapter	McIntyre, H.D., Dekker Nitert, M., Barrett, H.L. , Callaway, L.K. (2016) GDM, obesity and pregnancy outcome. In <i>Textbook of Diabetes and Pregnancy</i> , third edition, Hod, Jovanovic, Di Renzo, De Leiva and Langer (Eds). CRC press, pp 246-252.
Journal article	Eley VA, Callaway LK, van Zundert AA, Lipman J, Gallois C . anaesthetists' experiences with the early labour epidural recommendation for obese parturients: a qualitative study. <i>Anaesth Intensive Care</i> . 2016 Sep;44(5):620-7.
Journal article	Eley VA, van Zundert AA, Lipman J, Callaway LK . Anaesthetic management of obese parturients: what is the evidence supporting practice guidelines? <i>Anesth Intensive Care</i> . 2016 Sep;44(5):552-9.
Journal article	de Jersey SJ, Mallan K, Callaway L, Daniels LA, Nicholson JM . A Cross Sectional Comparison of Predisposing, Reinforcing and Enabling Factors for Lifestyle Health Behaviours and Weight Gain in Healthy and Overweight Pregnant Women. <i>Matern Child Health J</i> . 2016 Jul 22. [Epub ahead of print]
Journal article	Street S , Dekker Nitert M, Callaway LK . Successful vaginal delivery following spontaneous adrenal haemorrhage at term. <i>BMJ Case Rep</i> . 2016 May 17;2016. pii: bcr2016215096. doi: 10.1136/bcr-2016-215096.
Journal article	Willmott L, White B, Gallois C, Parker M, Graves N, Winch S, Callaway LK , Shepherd N, Close E. reasons doctors provide futile treatment at the end of life: a qualitative study. <i>J Med Ethics</i> . 2016 Aug;42(8):496-503. doi: 10.1136/medethics-2016-103370.
Journal article	White B, Willmott L, Close E, Shepherd N, Gallois C, Parker MH, Winch S, Graves N, Callaway LK What does "futility" mean? An empirical study of doctors' perceptions. <i>Med J Aust</i> . 2016 May 2;204(8):318.
Journal article	Schoenaker DA, Mishra GD, Callaway LK , Soedamah-Muthu SS. The Role of Energy, Nutrients, Foods, and Dietary Patterns in the Development of Gestational Diabetes Mellitus: A Systematic Review of Observational Studies. <i>Diabetes Care</i> . 2016 Jan;39(1):16-23. doi: 10.2337/dc15-0540. Review.
Journal article	Glycaemic behaviour during breastfeeding in women with Type 1 diabetes. Achong N, McIntyre HD, Callaway L , Duncan EL. <i>Diabet Med</i> . 2016 Jul;33(7):947-55. doi: 10.1111/dme.12993.

2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Poster	North A, Barrett H, Lust K, Whitfield K Therapeutic heparin in the obstetric patient.
Poster	Gomez-Arango, L.F., Barrett, H.L., Callaway, L.K. , McIntyre, H.D., Morrison, M., Dekker Nitert, M. (2016) Odoribacter abundance and increased butyrate expression in the gut microbiome is associated with lower blood pressure in early pregnancy. IMSANZ/SOMANZ annual scientific meeting, Alice Springs, September 15-18
Poster	Gomez-Arango, L.F., Barrett, H.L., Callaway, L.K. , McIntyre, H.D., Morrison, M., Dekker Nitert, M. (2016) Abundance of Collinsella in the gut microbiome at 16 weeks gestation is positively correlated with insulin levels in overweight and obese women. Australasian Diabetes in Pregnancy Society annual scientific meeting, Gold Coast, August 26-27
Poster	Gomez-Arango, L.F., Barrett, H.L., Callaway, L.K. , McIntyre, H.D., Morrison, M., Dekker Nitert, M. (2016) Antibiotic exposure during pregnancy affects the oral microbiota in newborn infants. Australasian Diabetes in Pregnancy Society annual scientific meeting, Gold Coast, August 26-27
Poster	Gomez-Arango, L.F., Barrett, H.L., Callaway, L.K. , McIntyre, H.D., Morrison, M., Dekker Nitert, M. (2016) Abundance of Collinsella in the gut microbiome at 16 weeks gestation is positively correlated with insulin levels in overweight and obese women. Australian Diabetes Society annual scientific meeting, Gold Coast, August 24-26
Oral	Barrett, H.L. , Gomez-Arango, L.F., McIntyre, H.D., Morrison, M., Callaway, L.K. , Dekker Nitert, M. (2016). Maternal lipoproteins and gut microbiome in early pregnancy. Australian Diabetes Society annual scientific meeting, Gold Coast, August 24-26
Poster	Gomez-Arango, L.F., Barrett, H.L., Callaway, L.K. , McIntyre, H.D., Morrison, M., Dekker Nitert, M. (2016) Antibiotic exposure during pregnancy affects the oral microbiota in newborn infants. Australian and New Zealand Placental Research Association satellite meeting, Gold Coast, August 20-21
Oral	Barrett HL 2016, "Pregnancy in the workplace" IMSANZ/SOMANZ annual scientific meeting, Alice Springs, September 15-18
Oral	Barrett HL 2016, "Cystic Fibrosis in pregnancy" Australian Diabetes Society annual scientific meeting, Gold Coast, August 24-26
Poster	Spooner M , Wolski P, Eccles-Smith J, d'Emden M, Barrett H, Britten F. Cushing's Syndrome During Pregnancy: A Diagnostic and Management Conundrum. ESA-SRB- ANZBMS Symposium- Qld Australia, August 2016
Oral	Spooner M . Cushing's Syndrome During Pregnancy: A Diagnostic and Management Conundrum. IMSANZ /SOMANZ Conference- Alice Springs, Australia. September 2016

Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
	16	2	4	7



Betty Byrne Henderson Women's Health Research Centre (BBHWHRC)

The centre was host to the LAW (Longitudinal Study of Ageing in Women) study. The study commenced in early 2001 with the primary aim of evaluating health-related changes occurring with the ageing process in women.

Multidisciplinary, prospective, and clinically-based, the study coordinates 10 linked projects: heart function, central arterial stiffness, cognitive function, balance and stability, bone health and fat/lean body composition, nutrition, endocrine function, dental health, sexuality and sociodemography.

The study has completed three 5-year stages – the first stage of intensive evaluation was supported by grants from the Royal Brisbane & Women's Hospital Foundation, National Health and Medical Research Council, Australian Menopause Society and others. The second stage was involved in the establishment of the master database and the third stage in the collation, analysis and publication of results. To date, there are 13 completed higher degrees (1 PhD and 3 BSc (Hon)) and 34 peer-reviewed papers.

The study is now in its fourth stage, beginning its 16th year and has conducted 2 follow-up questionnaire surveys of the health status of the cohort. As the study data matures with time, the information on outcomes from the women becomes increasingly more valuable in the determination of positive and negative associations between how these women live their lives in an urban community and the development of serious medical conditions. This is relevant information to advise on healthcare strategies.

The current plan of the study is to continue to analyse the data and collate the results to fulfil the objectives of the study, with the assistance of a biostatistician and collaborators. Given available funding, the centre will organise another questionnaire survey in 2017-18 to obtain more updated information from the women.

Current staff: Professor S. K. Khoo
Principal & Director of Study, University of Queensland (current)
Biostatistician

