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Executive Director’s Message

Health and medical research is vital to changing the way we care for patients. It allows us to provide options where previously there have been none through clinical trials or novel treatments. Research gives us the chance to test alternative medications, to offer new materials for devices and protheses, to provide surgeons with precision guidance, to compare bedside treatments, and to figure out how a disease works. It is crucial to moving healthcare forward to better meet the needs and expectations of the community.

We often see new research celebrated on the news, but what does not make headlines is the many years it has taken to come to the answer. A single ‘overnight breakthrough’ might actually be the result of a decade of hard slog for a whole team of researchers, hours and hours applying for grants, months of clinical trials, dozens of higher degree students completing PhDs and Masters. Many research projects which do not yield a major outcome, but move forward a larger body of work or even eliminate some of the options and refine the hypothesis.

Research is the foundation of excellence in care at RBWH. In the past year, RBWH researchers working on 646 projects published more than 900 journal articles on a huge range of subjects including psychosocial support for bone marrow donors, the role of nutrition in preventing pressure injuries, reducing brain injury in newborns, the use of antibiotics in burns, diagnosing dementia, and paediatric diabetes. In addition, there have been hundreds of oral and poster presentations throughout the year.

To support this enormous research endeavour, RBWH researchers have attracted more than $43.6 million in funding. This includes $24.5 million from the National Health and Medical Research Council (NHMRC) which highlights the incredibly high calibre of research happening at RBWH. Other funders include the Children’s Health Foundation who awarded more than $408,000 to researchers at RBWH, and the US Department of Defence Congressionally Directed Research Programs which provided more than $687,000 in funding.

Our close partner RBWH Foundation provided more than $2.2 million in grants and scholarships during the year and RBWH researchers received more than $82,000 worth of support from Metro North’s Collaborative for Allied Health Research, Learning and Innovation (CAHRLI).

The RBWH community also provided support in 2018 to 387 research higher degree students, up from 312 last year. We also supported 377 research fellows, a significant increase from 198 in 2017 which demonstrates our commitment to fostering a strong and vibrant research environment.

The exceptional dedication of researchers across RBWH is one of the reasons this campus continues to be recognised as a state, national and world leader in so many fields. Researchers embody our values of teamwork, compassion and especially high performance. I congratulate all those who contribute to this outstanding body of work.

Amanda Dines
Executive Director
Royal Brisbane and Women’s Hospital
Being a part of Royal Brisbane and Women’s Hospital, and helping it to be the best it can be, 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 through our fundraising activities.

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.

RBWH Foundation, and its many supporters, understand that funding is a continuous issue for researchers. We are, 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 certainly incredibly proud that our seed funding has enabled several RBWH researchers, such as Professor Jason Roberts and Associate Professor Andrew Mallet, to obtain substantial grants from the NH&MRC in the past few years.

In the 2017/18 financial year, the support we received through donations, sponsorships, bequests and participation at our various events, enabled RBWH Foundation to distribute $6.77 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.

As the new CEO of RBWH Foundation, I would like to acknowledge the outstanding contribution and dedication of my predecessor, Peter Treseder, to furthering research at the hospital. Peter officially retired from his role in December 2018 after 10 years in the role. During his time with the Foundation, Peter led his team to raise $100 million to fund people, equipment, programs and research at RBWH.

We thank all our donors, sponsors and event participants for their magnanimous 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.
2018 was an important year for Brisbane Diamantina Health Partners (BDHP). This unique partnership between healthcare providers, research institutes, universities and the Department of Health aims to integrate innovative research with education, training and clinical care to deliver the highest quality healthcare for our local and extended communities, and ensure the needs of consumers and the community are met.

There were many highlights during the year with the most prominent being the process to develop the second strategic plan that identified our future direction and a greater alignment of objectives with priorities that have evolved at both local and national levels. Another highlight was the announcement in April 2018, by the Minister for Rural Health, Senator Bridget McKenzie, of $6.1 million in funding over three years, for a range of programs that will support the translation of research into improved clinical practice and healthcare delivery. A third key highlight was the subsequent announcement of the national consultation to inform the development of the second set of Medical Research Future Fund (MRFF) Australian Medical Research and Innovation Priorities 2018-2020.

BDHP significant achievements during the year included:

- A successful application to the MRFF Rapid Applied Translation Program for $2M, submitted in September 2018 with an additional $400k from the Queensland Department of Health, leading to the funding of nine translation projects across health service improvements and addressing knowledge gaps in health including cardiac and cancer-related burdens of disease, health issues impacting vulnerable groups of older and Indigenous people, as well as the prevalence of obesity, diabetes, sepsis and melanoma

- The evaluation of the shared agreement between partners of BDHP (Research Passport Agreement) designed to facilitate research collaboration approvals between the partners by adopting standard legal terms commonly used for health research projects, as the basis for further refinement of the project approval process

- Strong collaboration and engagement with the national Australian Health Research Alliance (AHRA) made up of the nine NHMRC-accredited research translation centres on four national system level initiatives: Health Systems Improvement and Sustainability (HSIS) Framework; Data Drive Healthcare Improvement; Indigenous Research Network and Capacity Building; and Community Involvement in Health Research. Additional collaborative activities across AHRA have included a survey to document the extent of consumer and community involvement in research activities; an assessment of the literature relating to unwarranted clinical variation; and the establishment of a national steering committee in Wound Care and an Aged Care Research Translation and Impact Network

- Hosting international experts including Professor John Øvretveit from the Karolinska Institute in Stockholm, Associate Professor Jeanne M. Huddleston from the Mayo Clinic, Professor Sherry Beaudreau from Stanford University School of Medicine and Professor Inger Hilde Nordhus from the University of Oslo. This enabled shared learnings in clinical and health systems improvement and the exploration of ongoing strategic opportunities across the partners

- Facilitating key events for the Ageing, Chronic Disease, and Brain and Mental Health themes to provide opportunities to bring together experts from across specialist areas to form and strengthen collaborations. The three events, held between June and August 2018, had very high registration and attendance and garnered incredibly positive feedback and ideas for future events including topics, speakers and structure. The 5th Annual Brisbane Cancer Conference was also held in November, attracting the biggest program and attendance to date.

We can be very confident that the future for collaboration in research translation, education and clinical care across BDHP and the other NHMRC accredited translation centres is bright with key foundations and plans for an upward trajectory in place. The next few years will see significant scalability, improvements and enhancements in embedding and translating research into the health system.

BDHP has received tremendous support from many individuals locally, nationally and internationally who passionately shared their knowledge and contributed to efforts in our journey, shared vision and tripartite mission to improve health and wellbeing through greater integration and alignment. We are especially thankful for the dedication and commitment of our local working groups and committees and the BDHP staff. Further information about BDHP is available on the BDHP website: www.brisbanediamantina.com.
Menzies Health Institute Queensland (MenziesHIQ) at Griffith University and the Royal Brisbane Women’s Hospital (RBWH) have continued to maintain a strong collaboration into 2018. Innovative clinical research continues to form the foundation of this partnership with clinical trials and joint staff appointments in place to support improvements in patient care across the hospital. The Alliance for Vascular Access Teaching And Research (AVATAR) group was founded on the partnership between MenziesHIQ (Prof Claire Rickard) and RBWH’s Nursing and Midwifery Research Centre (Prof Joan Webster) in 2007. AVATAR continues to conduct world leading research improving access to veins and arteries for medical treatment.

2018 highlights included:

- 3 PhD Candidates (Nicole Marsh, Julie Flynn, Nicole Gavin)
- Lancet publication of NHMRC funded, multi-centre, SAVE Trial of dressing and securements for peripheral IV catheters (Rickard C et al)
- The NHMRC funded, multi-centre PISCES Trial continued into antimicrobial dressings and better securement of PICC devices (Rickard C et al)
- New NHMRC funding was received for the PICNIC Trial, a multi-site trial of antithrombogenic and antimicrobial catheter materials (Ullman A et al)
- Joint Research Fellow Nicole Marsh awarded Cecilia Brazil Nursing Research Award
- Australian College of Nursing Research Award 2018. Managing Intravenous Devices among patients with Limited vascular access or prolonged therapy: Investigating the Efficacy of midline catheters MIDLINE study (Marsh N)
- MenziesHIQ Excellence in Publication Awards: (i) Marsh N, (ii) Rickard CM
- Pro Vice Chancellor (Health) Research Excellence Award (Research Team)
- Representative on Commission on Safety and Quality in Health Care for development of a national clinical standard for PIVCs (Marsh N)
- >20 high quality, peer-reviewed publications, including the Lancet Infectious Disease, Critical Care Medicine, the International Journal of Nursing Science, Trials, the Cochrane Database of Systematic Reviews, and many others.

Our strong shared interest in wound care continued with the following 2018 achievements:

- Completion of the NHMRC-funded “ADDing negative pRESSure to improve healing” (the DRESSING trial)” (Gillespie B et al)
- New NHMRC funding received for “Efficacy and Effectiveness of Prophylactic FOam dressings in the prevention of sacral pressure injuries in at-risk hospitalised patients (The EEPOC Trial)” (Gillespie B et al). This trial is the largest in its field, and has recruited over 1,830 participants (total planned recruitment n = 2,090).

We would like to welcome Associate Professor Katrina Campbell who has been newly appointed to a strategic health service-wide conjoint in Health Services Research (Allied Health) in Metro North and Menzies Health Institute Queensland. In this role, she will lead pragmatic clinical trials and implementation trials measuring patient, health service and economic outcomes. Since completing a PhD as a dietitian at RBWH in 2007, Katrina has built a career in research, clinical dietetics, academia, management and consultancy. She has an international profile in the field of nutrition for chronic kidney disease, publishing more than 100 peer-reviewed papers in this field. Katrina is an Advanced Accredited Practicing Dietitian and a Board Member of the Dietitians Association of Australia.

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.
The Pathology Queensland Research Office with Professor Sunil Lakhani as Executive Director Research and Dr Irma Gresshoff as Principal Research Officer is establishing the baseline of research activity in PQ, reviewing governance and developing a strategic plan. Collaborative initiatives within PQ and its partners include (but are not limited to):

**Anatomical Pathology:**
Breast Cancer (Sunil Lakhani) Project in collaboration with RBWH Breast Surgery, Neurosurgery, Oncology and Radiology. The work is supported by NHMRC Program and Project grants to UQ/QIMR collaborative. 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 (Mahendra Singh and Laxmi Nandkumar with Dr David Fielding and Peter Simpson) Project in UQCCR and QIMR to develop next generation sequencing analysis of cytology smears from endoscopic aspirates. Prostate Cancer (Diane Payton and Jo Perry-Keene with Frank Gardiner) Project investigating laparoscopic surgery and biomarker discovery for early detection.

**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 and other internal medicine departments as well as industry. The work resulted in peer-reviewed publication and translation into clinical practice. This group has over 25 current research collaborations.

**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. Prof Nimmo and David Whiley also oversee an extensive research and development program focusing on microbial diagnostics. This is a joint initiative of PQ and UQ. A key focus is rapid detection of antimicrobial resistance and personalised antimicrobial therapy. The program is supported by various organisations including the NHMRC and the Sasakawa Memorial Fund of the Children’s Hospital Foundation.

**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 performed on ROTEM machines. Further investigations involving the application of ROTEM technology in pregnancy and preclampsia and pre hospital trauma are ongoing. ROTEM testing has been provided by the transfusion laboratory (Blood Bank) at RBWH since June 2014. The Transfusion Unit continues with contribution to Massive Transfusion Registry.

**Genetic Pathology:**
Molecular Genetics has been involved in the following:
- QGHA Genomic Testing Innovation Project (GTI). The GTI project aims to establish systems for the comparison of performance of new genomics approaches for implementation. The report from this project is currently in final draft stage and will be published in 2019
- Pathology Queensland has been designated as the service provider for QGHA round 2 projects which will facilitate the building of capacity and capability in Genomics within Queensland.

The Molecular Diagnostic Unit is involved with the Lung Cancer Project led by QUT. The unit is also collaborating with Immunology in ‘Genetic diagnosis of Severe Combined Immunodeficiency (SCID)’. These projects will further cement the role that pathology plays at the RBWH and across Queensland.

**Immunology:**
Immunopathology has a major ongoing collaboration with James Scott (UQCCR), in autoimmunity and mental health, exploring the role of autoantibodies in first episode psychosis.
These are exciting times for the Herston Precinct. With the RBWH at its core, the neighborhood also includes multiple activities from UQ and QUT, QIMR Berghofer and HIRF, in which all four partners are working in an alliance.

Plans for the development of Herston have evolved rapidly in the past year and we are very pleased to be a core component of them. When realized, we are sure that Herston will be an extremely strong health precinct. The question marks over the future of the former Children’s Hospital and related areas (known as the Herston Quarter) will be clarified in the next months, and then a fully integrated plan can be put in place.

Our engagement with the RBWH is stronger and more significant every year. The leaders of three of our four research programs are active clinicians, and other key researchers here also engage in the delivery of services at RBWH. This, in turn, informs our research activities such that our work is directly relevant towards addressing the clinical needs of the community. QGen Cell Therapeutics, the GMP cell manufacture facility at QIMR Berghofer continues to generate increasing numbers of cellular products for clinical use. This now includes gene modified T cells that are being utilized in the bone marrow transplant program at RBWH.

It has been an important year for the Herston community to have the HIRF fully functioning and generating exciting data. This will facilitate new research and clinical approaches with those on the Herston precinct being best placed to benefit from them. While focusing on the Herston precinct, we are very aware of our engagement and commitment to the Brisbane-wide community through the Brisbane Diamantina Health Partners (BDHP). The activities of the BDHP are increasing rapidly and with greater inter-institutional cooperation becoming apparent. When one combines the new strength and dynamism of the RBWH and Metro North with the greater commitment to collaboration, it should ensure that health outcomes improve constantly. This is the aim of QIMR Berghofer, and we will continue with our engagement and commitment to our neighbors, in particular, to delivering this goal.
Queensland University of Technology

QUT’s longstanding partnership with RBWH continued to produce high quality and impactful research, clinical and educational outcomes in 2018. This summary of research activity reflects ongoing engagement between academic staff, clinicians and students that benefit our organisations, patients and community.

The QUT Nursing Professorial Precincts Team at RBWH received a 2018 QUT Vice-Chancellor’s Award for Excellence, recognising their collaborative clinical, practical and translational nursing research. The Stroke Nursing Professorial Unit continued to develop a mobile app, implemented a process evaluation of the Stroke Nurse Practitioner Outpatient Stroke Clinic, and presented preliminary results of the LG3 peptide study at the International Neurosciences Nursing Conference. The Intensive Care Nursing Professorial Unit completed studies on incontinence-associated dermatitis, medical device related pressure injuries and pressure injury prevention. The Renal Nursing Professorial Unit, partnering with the NHMRC Chronic Kidney Disease Centre of Research Excellence (CRE), received a Kidney Australia grant investigating sleep quality in people with advanced CKD. The Cancer Nursing Professorial Unit created two new joint appointments and mentored over 250 cancer nurses.

The Centre for Palliative Care Research and Education, led by Distinguished Professor Patsy Yates, continued to enhance palliative care services in Queensland while the NHMRC End-of-Life Care CRE published high impact outputs in BMC Palliative Care and Palliative and Supportive Care. The NHMRC Partnership Project for the ENCORE Trial is progressing well with QUT and Metro North Hospital and Health Services (MNHHS) as the central hub for the multi-centre study.

The Jamieson Trauma Institute (JTI) based at Metro North/RBWH involves multiple university, health service and industry partners to advance trauma prevention, research, systems, and clinical management to deliver the best possible care for people who suffer a traumatic injury. JTI-QUT links were enhanced through the joint appointments of Director Professor Michael Schuetz and Principal Research Fellow Associate Professor Kirsten Vallmuur.

The Australian Centre for Health Services Innovation (AusHSI) and RBWH continued to provide expert health economics, statistical and implementation science advice, including the intervention on hospital use for patients at risk of long stay project. AusHSI and MNHHS developed a Health Services Innovation major for the QUT Graduate Certificate in Health Science to advance workforce and activity-based funding modelling and through expanded primary healthcare practice; and assess the impact of the four hour rule in emergency departments; and validate a diagnostic protocol for Aboriginal and Torres Strait Islander patients with suspected Acute Coronary Syndrome.

The Herston Biofabrication Institute is a partnership between QUT and MNHHS. Opening in 2019, the Institute will advance knowledge and technology in 3D scanning, modeling and printing of bone, cartilage and other human tissue to repair tissue damaged through expanded primary healthcare practice; and assess the impact of the four hour rule in emergency departments; and validate a diagnostic protocol for Aboriginal and Torres Strait Islander patients with suspected Acute Coronary Syndrome.

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Other QUT–RBWH collaborative research in 2018 included:

- **psychology and neuroscience** projects examining the role of exercise in treatment of PTSD and mild traumatic brain injury; how adherence to CPAP affects neuropathology associated with sleep apnoea; and how PET and MRI can be used to best diagnose brain trauma in boxers;
- **public health** research to reduce emergency department demand through expanded primary healthcare practice; develop workforce and activity-based funding modelling for emergency departments; and assess the impact of the four hour rule in emergency departments;
- **transdisciplinary** projects evaluating health services and interventions for patients with burns/burn scars, musculoskeletal conditions, orthopaedic injuries, radiation dermatitis, and pain associated with chemotherapy induced peripheral neuropathy;
- **optometry** research on a novel night lighting system to reduce patient falls in hospital; and using functional MRI scanning to understand human visual system responses to image blur to enhance our understanding of normal eye growth and eye conditions including myopia;
- **nutrition and dietetics** research conducted in Vietnam resulted in publications on the prevalence and associated risk factors of malnutrition among hospitalised adults; validity of nutritional screening tools for inpatient adults; and characteristics of dietary intake among adult hospital patients. Other publications focused on the integration of pregnancy weight gain charts into antenatal care; and diagnosis and management of gestational diabetes mellitus in Australia; and
- **biomedical sciences** diagnostic research involved salivary biomarkers for head and neck cancers, lung cancer diagnostic and treatment pathways, and a study of pollen allergy impact on asthma in Queensland.
The University of Queensland

The University of Queensland strongly values its multiple active collaborations with RBWH, many of which are realised through the two health-focused Faculties, Health and Behavioural Sciences (HaBS) and Medicine. UQ is committed to interprofessional and interdisciplinary scholarly activity, as well as to increasing integration between research, teaching, clinical practice, and integrated care. Our partnerships with RBWH are valuable aspects of this commitment.

The School of Dentistry, the School of Clinical Medicine, and the School of Public Health all emphasise research-infused, translational clinical and health promotion education in collaboration with many valued conjoint academics, Academic Title Holders, and other colleagues from RBWH.

Research centres with a strong translational focus include the UQ Centre for Clinical Research; the Burns, Trauma and Critical Care Research Centre; the Perinatal Research Centre; the Centre for Youth Substance Abuse Research; and the RECOVER Injury Research Centre. All these centres focus on developing, evaluating, enhancing and translating evidence-based best practice into standard practice. Funding comes from UQ and from RBWH, as well as from competitive grants, Queensland and Commonwealth Departments of Health, generous philanthropists, and statutory bodies such as the Motor Accident Insurance Commission.

UQ is also a partner with QUT, Queensland Health, and QIMR Berghofer in the Herston Imaging Research Facility (HIRF) located in the CCR building and used by researchers from across Brisbane to support cutting-edge investigation in oncology, clinical neurosciences, musculoskeletal injury and related fields through world-class imaging services.

With the STARS (Surgical Treatment and Rehabilitation Service) building rising out of the ashes of the old Children’s Hospital, UQ is an active partner in the development of a world’s best practice facility for rehabilitation and day surgery, in which clinical services, clinical education for medical, nursing and allied health professions, and applied research meld seamlessly into a patient-focused, research-infused interprofessional approach to optimal patient wellbeing.

In addition to a number of current and planned research conjoint positions across multiple health disciplines, both Faculties are actively engaged in the MNHHS Clinical Fellowship Program, supporting the research development of clinical staff.

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.
Successful PHD Candidates in 2018

**Allied Health**

**Title of Project:**
2D motion analysis measurements in low back pain

**Month Completed:**
March 2018

![Dr Peter Window](image1)

**Critical Care and Clinical Support Services**

**Title of Project:**
The Person, Environment, Heath and Illness Factors Influencing Time to First Analgesic Medication and the Experience of Pain in the Adult Emergency Department

**Month Completed:**
November 2018

![Dr James Hughes](image2)

**Critical Care and Clinical Support Services**

**Dr Julian Williams**

**Title of Project:**
Identifying Risk Factors for MRSA

**Month Completed:**
December 2018
Successful PHD Candidates in 2018

Internal Medicine Services

Title of Project:
Pseudomonas aeruginosa blood stream infections: clinical and molecular epidemiology, virulence and outcome

Month Completed:
November 2018

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Internal Medicine Services

Title of Project:
Multi-drug resistant Gram-negative bacterial infection

Month Completed:
2018

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Surgical and Perioperative Services

Title of Project:
Does S100B protein correlate with severity of brain injury or blood-brain barrier dysfunction? PhD Cambridge University, UK

Month Completed:
2018
RESEARCH SERVICES
Research Executive Director's Report

Research Services is committed to growing research capability and capacity at the RBWH. During 2018 there has been ongoing increased engagement with our clinician researchers, both established and commencing, the Metro North Research team and our external partners aiming to streamline processes and make conducting research easier! During 2018, the RBWH Ethics team, led by Dr Gordon McGurk also became part of Research Services alongside the research governance team, with the purpose of working together more productively. Research services also provides secretariat and management of the RBWH grants program, including Scholarships, annual Project Grants and Post-doctoral Fellowships.

Merrilyn Banks
Executive Director
Research Services

RBWH Research Council

Back row (L-R): Emma Raymond (Research Services), Sunil Lakhani (Pathology Qld), Gordon McGurk (HREC), Leah Hoppe (Research Services), Jye Smith (Nuc.Med), Marita Prior (Med. Imaging), Ian Parker (Allied Health), Robert Tindle (Research Advisor), Niall Higgins (Mental Health), Nicole Marsh (Nursing)

Front row (L-R): Louise Cullen (Emergency Medicine), Leonie Callaway (Women’s and Newborn), Merrilyn Banks (Research Services - Chair), Victoria Eley (Anaesthetics), Helen Healy (Renal Medicine)

Absent: Jeff Lipman, David Cavallucci, David Paterson, Adrienne Young, Tara McCurdie, Katie Foxcroft, Steven Lane
Human Research Ethics Committee and Research Governance

The National Statement on Ethical Conduct in Human Research published by the National Health and Medical Research Council (NHMRC), obliges all institutions involved in the practice of research ensure research participant safety and the integrity of research studies through review by a Human Research Ethics Committee. The RBWH HREC plays an integral role in ensuring research across Australia, but particularly within the RBWH, is ethically acceptable. In the last year, the HREC reviewed around 600 applications for review of research, including full applications, low risk applications amendments and exemptions. The HREC also provides advice on whether activities comprise research, or are other non-research activities such as clinical audit; service evaluation; and quality improvement.

The RBWH HREC remains one of 50 HRECs in Australia whose ethics review processes have been certified as part of the NHMRC’s certification process. In addition to the existing categories of certification, which include clinical trials Phase I-IV, qualitative research, mental health research and population health research, the HREC will be seeking certification in other categories including:

- Research involving First Nations Peoples
- Paediatric Research.

As part of a project to streamline HREC and site authorisation processes, the HREC has also been developing mechanisms to expedite ethics review and to work more efficiently with departments within the hospital to understand their needs and meet contemporary expectations. These mechanisms include:

- Bolstering the review of low risk applications by the addition of expert reviewers from throughout the hospital who have agreed to provide input where required. This will add some research expertise to the reviews
- Setting and implementing clear, published and accountable timelines
- Comprising ethics and governance information and advice ‘clinics’ to provide guidance to researchers on aspects of ethics and governance prior to application submission
- Providing information sessions on aspects of review such as the difference between research and non-research activities.

HREC Activity
As part of a project to streamline HREC and site authorisation processes, the HREC has also been
developing mechanisms to expedite ethics review and to work more efficiently with departments within the
hospital. Setting and implementing clear, published and accountable timelines.

The RBWH HREC remains one of 50 HRECs in Australia whose ethics review processes have been certified
by the National Health and Medical Research Council (NHMRC), obliges all institutions involved in the practice of research ensure
research participant safety and the integrity of research studies through review by a Human Research Ethics
Committee.

The HREC will be seeking certification in other categories including:

- Clinical trials Phase I
- Clinical trials Phase II
- Clinical trials Phase III
- Clinical trials Phase IV
- Qualitative research
- Mental health research
- Population health research
- Non-research activities
- Research involving First Nations Peoples

Providing information sessions on aspects of review such as the difference between research and
governance activity and the ethical considerations of these activities. Comprising ethics and governance
information and advice 'clinics' to provide guidance to researchers on aspects of ethics and governance prior to application su
bmission.

Bolstering the review of low risk applications by the addition of expert reviewers from throughout the
hospital who have agreed to provide input where required. This will add some research
expertise to the reviews.

Members of RBWH HREC and RBWH RGO:
(Left to Right): Rhondda Boyle (HREC Administration Officer), Janani Balakrishna (A/Research Support Officer), Ann-Maree Gordon (HREC Coordinator), Anitha Dinesh (A/Research Governance Officer), Gordon McGurk (HREC Chairperson), Merrilyn Banks (Executive Director), Leah Hoppe (Executive Support Officer), Mamta Tanwar (HREC Assistant Coordinator), Emma Raymond (Business Manager). Absent: Liana Tongia (Administration Officer, Research Governance)
The Research Advisory Committee (RAC) was established to provide assistance to the Royal Brisbane and Women’s Hospital Foundation (the Foundation) and Royal Brisbane and Women’s Hospital (the Hospital) in fulfilling their oversight responsibilities for the funding of health science research at the Hospital. The RAC members provide their services on an honorary basis attending four meetings throughout the year.

The 2018 Membership Included:

<table>
<thead>
<tr>
<th>Chair</th>
<th>Prof Claire Rickard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Gerard Byrne</td>
<td></td>
</tr>
<tr>
<td>Dr Merrilyn Banks</td>
<td>Prof Robert Tindle</td>
</tr>
<tr>
<td>Adjunct Assoc Prof Ian Coombes</td>
<td>Dr Helen Healy</td>
</tr>
<tr>
<td>Adjunct Assoc Prof Robyn Fox</td>
<td>Prof Joan Webster</td>
</tr>
<tr>
<td>Prof Grant Ramm</td>
<td>Prof Jeff Lipman</td>
</tr>
</tbody>
</table>

Other Attendees:

<table>
<thead>
<tr>
<th>Ms Anitha Dinesh</th>
<th>Ms Kaelah Bosanquet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Leah Hoppe</td>
<td></td>
</tr>
</tbody>
</table>

Throughout 2018 a staggering $2,400,000 was funded for scholarships, project grants and fellowships. A total of $1,500,000 was received via the Private Practice Trust Fund plus $900,000 from the RBWH Foundation. It is the role of the RAC members to give priority to the scholarships and those postgraduate research students who obtain external support (e.g. NHMRC or ARC) are eligible for top-up funds.

RAC received a total of 18 scholarship applications, 13 of which were successful for funding, with a total value for scholarships of $522,653.16. In addition, 140 Research grants were received, blind ranked by the committee and divided into Early career applicants (40% – $364,703.00) and Experienced Research (60% – $564,124.68), leaving a total of 65 applications. Overall, 10 out of 29 were successful for early career researcher grants and 14 out of 36 were successful for experienced research grants.

In addition, 10 fellowship applications were received, 4 of which proceeded to the interview process. This was an opportunity to receive $50,000 over a 2-year timeframe, there were 3 successful applicants who received this funding.

After many years of exceptional and voluntary service, the time has come to say farewell to Professor Robert Tindle. On behalf of myself and all the committee members, we would like to thank you for your hard work and dedication and will be missed by all.

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

27th Annual RBWH Healthcare Symposium Research Awards 2018

Winners:

Danielle Silvestro  (The Professor Lawrie Powell AC Early Career Research Award)

Dr Melissa Eastgate  (The Professor William Egerton Award for Medical Research): Trends in outcomes of resected intracranial metastatic melanoma across pre and post ear of modern systemic therapies

Nicole Marsh  (The Cecilia Brazil Nursing Research Award): Peripheral intravenous catheter failure and complications within the adult population: a systematic review

Adrienne Young  (Health Practitioners Research Award): Improving nutritional intake and care for older in-patients

Katrina Kilday  (Discovery and Innovation Research): Functional specialisation of natural killer cell subsets in human kidney transplant rejection

Abirami Ratnasingham  (Clinical Research Award): Reduced fat-free mass at birth is predictor of childhood obesity

Lisa Mitchell  (Complex Health Challenges Research Award): Safety partnerships in action: zero hospital acquired pressure injuries

Mary Fenn  (Health Services Implementation Research Award): Up late at RBWH improves staff experience

Dr Melissa Eastgate  (Best Overall Presentation): Trends in outcomes of resected intracranial metastatic melanoma across pre and post ear of modern systemic therapies
The National Statement on Ethical Conduct in Human Research published by the National Health and Medical Research Council (NHMRC), obliges all institutions involved in the practice of research ensure research participant safety and the integrity of research studies through review by a Human Research Ethics Committee. The RBWH HREC plays an integral role in ensuring research across Australia, but particularly within the RBWH, is ethically acceptable. In the last year, the HREC reviewed around 600 applications for review of research, including full applications, low risk applications amendments and exemptions. The HREC also provides advice on whether activities comprise research, or are other non-research activities such as clinical audit; service evaluation; and quality improvement.

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- Research involving First Nations Peoples
- Paediatric Research

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- Bolstering the review of low risk applications by the addition of expert reviewers from throughout the hospital who have agreed to provide input where required. This will add some research expertise to the reviews.
- Setting and implementing clear, published and accountable timelines.
- Comprising ethics and governance information and advice 'clinics' to provide guidance to researchers on aspects of ethics and governance prior to application submission.
- Providing information sessions on aspects of review such as the difference between research and non-research activities.
Centre for Palliative Care Research and Education

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 2018:

The Centre Director awarded the prestigious Distinguished Researcher award by the International Oncology Nursing Society (ONS) Congress 2018; and the Clinical Research Program Leader awarded the Bill Siganto award at the 2018 Young Investigator Symposium and Mater Research Awards for Research Excellence. CPCRE staff have continued research projects funded by National Health and Medical Research Council (NHMRC), Australian Research Council, Mater Medical Research Institute, Department of Health (DOH), Cancer Australia, Cancer Council NSW, and the Australian Government. Research projects are multi-disciplinary and are across institutions, and results have been published in national and international peer reviewed publications. The Centre Director and 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 and 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 and the Annual Palliative Care Update Symposium (topic rotates 3 yearly between general medicine, oncology and supportive care).

Benefits for clinical practice:

The Centre’s work focuses on:

- 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanessa Brunelli</td>
<td>PhD, QUT</td>
<td>2013-2019</td>
<td>Development of a model of engagement designed to enhance specialist cancer nurse abilities to support people living with lung cancer in self-management</td>
<td>Patsy Yates, Carol Windsor</td>
</tr>
<tr>
<td>Elise Button</td>
<td>PhD, QUT</td>
<td>2014-2018</td>
<td>Identifying risk of deteriorating and dying in people with haematological malignancy</td>
<td>Patsy Yates, Raymond Chan, Shirley Chambers, Jason Butler</td>
</tr>
<tr>
<td>James Hughes</td>
<td>PhD, QUT</td>
<td>2014-2018</td>
<td>Person, environment and health and illness factors influencing time to analgesia and patient experience of pain management</td>
<td>Patsy Yates, Kimberly Alexander</td>
</tr>
<tr>
<td>Sarah Northfield</td>
<td>Masters by Research, QUT (2014-2018)</td>
<td></td>
<td>The palliative care referral decision-making process in the acute cancer setting: Nurses’ advocacy behaviours and the factors influencing these behaviours</td>
<td>Patsy Yates, Raymond Chan, John Rosenberg</td>
</tr>
<tr>
<td>Alison Bowers</td>
<td>PhD, QUT</td>
<td>2016-2020</td>
<td>Paediatric life-limiting conditions: prevalence and palliative care needs</td>
<td>Patsy Yates, Raymond Chan</td>
</tr>
<tr>
<td>Rae Blades</td>
<td>Masters by Research, QUT (2016-2020)</td>
<td></td>
<td>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</td>
<td>Patsy Yates, Raymond Chan, Steven McPhail</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tai-Rae Downer</td>
<td>PhD, QUT (2018-2021)</td>
<td></td>
<td>Health services use in older cancer survivors</td>
<td>Raymond Chan, Patsy Yates, Louise Gordon, Catherine Olsen</td>
</tr>
<tr>
<td>Dianne Legge</td>
<td>Masters by Research, QUT (2015-2019)</td>
<td></td>
<td>Supportive care needs of people diagnosed with low-grade glioma (LGG) in the 3 years post diagnosis</td>
<td>Patsy Yates, Danette Langbecker</td>
</tr>
<tr>
<td>Robyn Matthews</td>
<td>Masters by Research, QUT (2016-2021)</td>
<td></td>
<td>The preparedness of novice cancer nurses in delivering end-of-life care in the acute oncology hospital setting</td>
<td>Patsy Yates, Raymond Chan, Stuart Ekberg</td>
</tr>
<tr>
<td>Carla Thamm</td>
<td>PhD, QUT (2012-2021)</td>
<td></td>
<td>An investigation of how sociocultural factors influence health care professionals' and patients' experience of head and neck cancer and its treatment</td>
<td>Patsy Yates, Sandie McCarthy</td>
</tr>
<tr>
<td>Cynthia Akuoko</td>
<td>PhD, QUT (2017-2021)</td>
<td></td>
<td>Achieving health services and supportive care needs of women with advanced breast cancer in Ghana</td>
<td>Patsy Yates, Shirley Chambers</td>
</tr>
<tr>
<td>Wendy O’Dea</td>
<td>Masters of Philosophy, QUT (2018-2022)</td>
<td></td>
<td>What is the preparedness of cancer nurses caring for patients receiving immunotherapy</td>
<td>Raymond Chan, Patsy Yates</td>
</tr>
<tr>
<td>Theodora Ogle</td>
<td>PhD, QUT (2017-2023)</td>
<td></td>
<td>Self-initiated comfort strategies for chemotherapy-induced peripheral neuropathy</td>
<td>Raymond Chan, Patsy Yates</td>
</tr>
<tr>
<td>Emma Sayers</td>
<td>PhD, QUT (2017-2025)</td>
<td></td>
<td>Ethical decision-making in end of life care – moving beyond patient autonomy and rational choice. The development of a framework rooted in the complex experiences of consumers, carers and clinicians.</td>
<td>Patsy Yates, Carol Windsor</td>
</tr>
<tr>
<td>Porawan Witwaranukool</td>
<td>PhD, QUT (2017-2021)</td>
<td></td>
<td>Implementing evidence based physical activity and exercise guidelines by oncology nurses in Thailand</td>
<td>Patsy Yates, Raymond Chan</td>
</tr>
<tr>
<td>Rani George</td>
<td>PhD, Griffith University (2013-2018)</td>
<td></td>
<td>Individualisation of pain management in cancer patients – Methadone</td>
<td>Janet Hardy</td>
</tr>
<tr>
<td>Alana Delaforce</td>
<td>PhD, University of Newcastle (2018-2020)</td>
<td></td>
<td>A theoretical analysis of the barriers and facilitators to implementing patient blood management guidelines: a mixed method restricted review</td>
<td>Jed Duff, Judy Munday, Janet Hardy</td>
</tr>
<tr>
<td>Thomas Dilana</td>
<td>PhD, University of Queensland (2018-2020)</td>
<td></td>
<td>Patient attitudes towards medicinal cannabis</td>
<td>Janet Hardy</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Haberecht</td>
<td>Visiting Fellow</td>
<td>Palliative Care</td>
<td>Queensland University of Technology (2016 – current)</td>
</tr>
<tr>
<td>Elise Button</td>
<td>Nurse Researcher</td>
<td>Cancer Nursing</td>
<td>Queensland University of Technology (2017 – current)</td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>Nurse Researcher</td>
<td>Cancer Nursing</td>
<td>Queensland University of Technology (2017 – current)</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardy, J., Yates, P.</td>
<td>Hardy, J., Good, P., Lintzeris, N., Martin, J., Yates, P., Chye, R., Haywood, A., Olsen, R.</td>
<td>Medicinal cannabinoids to relieve symptom burden in the palliative care of patients with advanced cancer</td>
</tr>
<tr>
<td>Yates, P.</td>
<td>Yates, P., Carter, R.</td>
<td>TrueNTH Solutions: an integrated multi-component intervention to improve the lives of men with prostate cancer in Australia</td>
</tr>
<tr>
<td>Yates, P.</td>
<td>Yates, P., Alexander, K., Miaskowski, C., Chan, R., McCarthy, A., McPhail, S., Wyld, D., Skerman, H.</td>
<td>A sequential multiple assignment randomized trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy</td>
</tr>
<tr>
<td>Yates, P., Button, E.</td>
<td>Chan, R., Blades, R., Yates, P., McPhail, S., Dickie, G., Wyld, D., Sylvander, S., Crowe, S., Button, E., Walsh, C., Keller, J., Jones, L.</td>
<td>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</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bradford, N., Yates, P., Chan, R. &amp; Tjondronegoro, D.</td>
<td>Yates, P.</td>
<td>RESPONse: Remote Symptom Management in Paediatric Oncology</td>
</tr>
<tr>
<td>Ekberg, S., Yates, P., Danby, S., Herbert, A., Bradford, N.</td>
<td>Yates, P.</td>
<td>The ‘So Many Questions’ Project</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patsy Yates</td>
<td>The Association of Queensland Nursing and Midwifery Leaders (AQNML) 2018 Outstanding Achievement in Nursing/Midwifery Award</td>
<td>The Association of Queensland Nursing and Midwifery Leaders (AQNML) Annual Conference</td>
</tr>
<tr>
<td>Patsy Yates</td>
<td>Awarded title of Distinguished Professor in recognition of outstanding achievements and ground-breaking research in cancer and palliative care nursing</td>
<td></td>
</tr>
<tr>
<td>Patsy Yates</td>
<td>Oncology Nursing Society (ONS) Distinguished Researcher Award</td>
<td>Oncology Nursing Society (ONS) Congress 2018</td>
</tr>
<tr>
<td>Janet Hardy</td>
<td>Nominee, Individual Award</td>
<td>2018 Mercy Day Mission Awards</td>
</tr>
<tr>
<td>Janet Hardy</td>
<td>Bill Siganto Award</td>
<td>2018 Young Investigator Symposium and Mater Research Awards for Research Excellence</td>
</tr>
<tr>
<td>Investigators (RBWH staff in bold)</td>
<td>RBWH Research Groups/Departments</td>
<td>Project Title</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Hardy, J., Good, P., Lintzeris, N., Martin, J., Yates, P., Chye, R., Haywood, A., Olsen, R.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Medicinal cannabinoids to relieve symptom burden in the palliative care of patients with advanced cancer</td>
</tr>
<tr>
<td>Bradford, N., Yates, P., Chan, R. &amp; Tjondronegoro, D.</td>
<td>Centre for Palliative Care Research and Education</td>
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<tr>
<td>Ekberg, S., Yates, P., Danby, S., Herbert, A., Bradford, N.</td>
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</tr>
<tr>
<td>Yates, P., Alexander, K., Miskowski, C., Chan, R., McCarthy, A., McPhail, S., Wyld, D., Skerman, H.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>A sequential multiple assignment randomized trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy</td>
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<tr>
<td>Chan, R., Blades, R., Yates, P., McPhail, S., Dickie, G., Wyld, D., Sylvander, S., Crowe, S., Button, E., Walsh, C., Keller, J., Jones, L.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>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</td>
</tr>
<tr>
<td>Hardy, J., Yates, P., Miakowski, C., Good, P., Skerman, S.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Assessing the influence of genetic variation on symptom clusters in men with castrate resistant prostate cancer</td>
</tr>
</tbody>
</table>
### 2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardy, J., Good, P., Olsen, R.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Talking about death: a study into palliative care communication</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$5,000</td>
<td>$19,320 (2016-2018)</td>
</tr>
<tr>
<td>Good, P., Sullivan, K., Woodward, N, Hardy, J.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>An open label pilot study of oral water soluble contrast (Gastrografin) in addition to conservative management for the resolution of malignant bowel obstruction in adult patients</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$5,000</td>
<td>$20,000 (2015-2018)</td>
</tr>
<tr>
<td>Hardy, J., Olsen, R., Good, P.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>A qualitative study of cancer patients’ perceptions and attitudes toward use of medicinal cannabinoids in palliative care</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$5,000</td>
<td>$19,496 (2017-2019)</td>
</tr>
<tr>
<td>Good, P., Hardy, J.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Assessing physical activity as an outcome of pain management in patients with advanced cancer</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$5,000</td>
<td>$20,000 (2017-2019)</td>
</tr>
<tr>
<td>Cross, J., Good, P., Hardy, J., Martin, J., Galettis, P., Zeng, L.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Using pharmacokinetic and pharmacodynamics data to optimise cannabinoid dosing in palliative care setting</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$10,000</td>
<td>$20,000 (2018-2019)</td>
</tr>
<tr>
<td>Richard, E., Mitchell, G., Nikles, J., Good, P., Senior, H., Steadman, K., Hardy, J.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Oral pilocarpine tablets for xerostomia</td>
<td>Mater Medical Research Institute Seeding Grant</td>
<td>$10,000</td>
<td>$19,947 (2018-2019)</td>
</tr>
<tr>
<td>Good, P., Hardy, J.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>A randomised, controlled, double blind study of ondansetron versus olanzapine versus haloperidol in patients with cancer and nausea not related to anticancer therapy. A pilot study (Nausea 4 study)</td>
<td>University of Technology Sydney</td>
<td>$10,000</td>
<td>$19,947 (2018-2019)</td>
</tr>
<tr>
<td>Hardy, J.</td>
<td>Centre for Palliative Care Research and Education</td>
<td>Research into prostate cancer</td>
<td>Mater Medical Research, Bill Siganto Award</td>
<td>$10,000</td>
<td>$10,000 (2018-2019)</td>
</tr>
</tbody>
</table>

### 2018 Research Publications

**Journal Articles:**

From research to bedside: how to decrease the gap. Taiwan Oncology Nursing Society and National Taiwan

Invited Speakers:

- **Invited Speaker, Oral and Poster**


**Book Chapters / Letter publications:**

7. **Pidgeon, T., Johnson, C., Lester, L., Currow, D., Yates, P., Allingham, S., Bird, S. & Eagar, K.** Perceptions of the care received from Australian palliative care services: A caregiver perspective. Palliative and Supportive Care, (2018), 16(2), 198-208
14. **Heng, S., Good, P., Hardy, J.** A retrospective audit on usage of Diamatizo Meuligna (Gastrografin®) for intestinal obstruction or constipation in patients with advanced neoplasms. Palliative Medicine, (2018), Jan 32(1)294-298 Epub 2017, Aug 14 https://doi.org/10.1177/026921631777264
17. **Alqabandi, N., Haywood, A., Kindl, K., Khan, S., Good, P., Hardy, J.** Managing diabetes at the end of life – a retrospective chart review of two health providers in Queensland, Australia Progress in Palliative Care (in review)

**Book Chapters / Letter publications:**


**2018 Conference Presentations – Invited Speaker, Oral and Poster**

**Invited Speakers:**

1. **Yates, P.** From research to bedside: how to decrease the gap. Taiwan Oncology Nursing Society and National Taiwan University Hospital Conference, Taiwan, 30th November 2018
2. **Yates, P.** Technology enabled interventions to promote self-management for cancer patients. Far Eastern Memorial Hospital Annual Nursing Conference, Taiwan, 30th November 2018
3. **Yates, P.** The evolving evidence base for cancer nursing: Key trends and their implications for practice. Southern China International Conference on Evidence-Based Nursing and Midwifery Practice 2018, Guangzhou, China, 19th November 2018
4. **Yates, P.** Nursing leadership in cancer care. Blood 2018, Brisbane, Australia, 23rd October 2018
Invited Speakers: (cont):

5. Yates, P. Needs of survivors and health professionals. 2018 World Cancer Congress, Kuala Lumpur, Malaysia, 3rd October 2018
8. Yates, P. ONS Spotlight on Award Winners (Distinguished Researcher). ONS 43rd Annual Congress, Washington, DC, USA, 19th May 2018

11. Cupples, G., Spitzer, M., Good, P., Hardy, J. Designing a trial of medicinal cannabis for palliative care in Queensland. ANZSPM Biannual Conference 2018, Sydney, Australia, 7th-9th September 2018
13. Hardy, J., Good, P. The place of medicinal cannabis in palliative care. Catholic Health Australia Research Symposium, Mater Hospital, Brisbane, Australia, 1st June 2018

Oral Presentations:

3. Yates, P. Academic-service partnerships in nursing and midwifery: creating the future for health care. AQNML Nursing & Midwifery Leaders Conference 2018, Brisbane, Australia, 2nd August 2018
5. Yates, P. & Grealish, L. Coming of age – reflections on the past to chart the future of CNSA. CNSA 21st Annual Congress, Brisbane, Australia, 23rd June 2018
6. Yates, P. Alternative trial design to traditional RCTs in primary care research. PC4 Scientific Symposium, Sydney, Australia, 25th May 2018
8. Northfield, S., Chan, R., Rosenberg, J. & Yates, P. Factors associated with patient access to specialist palliative care services in an acute cancer care setting. PCNA 7th Biennial Conference, Brisbane, Australia, 20th & 21st May 2018
11. Hughes, J., Yates, P., Spencer, L. & Alexander, K. The experience of care of patients presenting in pain to the emergency department. MNHHS Nursing and Midwifery Conference, Brisbane, Australia, 1st March 2018
12. Hardy, J. Palliative care research – the UQ experience. Palliative Care Queensland Annual Summit, Brisbane Exhibition and Convention Centre, Brisbane, Australia, 3rd December 2018
13. Hardy, J. The impact of novel therapies on the integration of palliative medicine and cancer care. Brisbane Cancer Conference, Brisbane Convention Centre, Brisbane, Australia, 29th November 2018
**Oral Presentations:**
(Cont)
17. Brimblecombe, C., Bressel, M., Hardy, J., Chye, R., Spruyt, O. Pain prevalence and severity, and adequacy of analgesia, amongst palliative radiotherapy patients in Australia. ANZSPM Biannual Conference 2018, Sydney, Australia, 7th-9th September 2018
18. Hardy, J., Good, P. The place of medicinal cannabis in palliative care. Catholic Health Australia Research Symposium, Mater Hospital, Brisbane, Australia, 1st June 2018

**Poster Presentations:**
2. Matthews, R., Yates, P. & Chan, R. Education and training for healthcare professionals to deliver end-of-life care in the acute care setting: a literature review. CNSA 21st Annual Congress, Brisbane, Australia, 21st-23rd June 2018
3. Chan, R., Yates, P. & Molasiositis, A. Cancer survivorship in 10 Asia Pacific Countries: what can we learn from a study of 1873 cancer survivors and 1501 oncology practitioners? ONS 43rd Annual Congress, Washington, DC, USA, 17th-20th May 2018

**Other Communications and Outputs:**

**Published Abstracts:**
Rosenberg, J., Chambers, S., Yates, P. Decision Assist – Palliative Aged Care Linkages Project. Seven strategies to promote linkages between aged care and palliative care: Results of a systematic literature review. Palliative Medicine, (2018), 32(1S), 42

**Workshops/Other Presentations:**
Yates, P. How does enhancing partnerships contribute to professional standards and practice? MNHHS Nursing and Midwifery Workshop, Brisbane, Australia, 17th October 2018
Yates, P. What is working for extending scope of practice for nursing? Queensland Health’s “Improving Healthcare in Queensland through Innovative Service Delivery Models” Workshop, Brisbane, Australia, 27th June 2018
Yates, P. End of Life Care. ACN Policy Summit, Canberra, Australia, 20th April 2018
Yates, P. Palliative care service delivery. Parliamentary Friends End of Life Group Lunchbox at Parliament House, Canberra, Australia, 27th February 2018
Yates, P. Designing a clinical research project. Introduction to Clinical Research for Health Professionals, 2018 MNHHS Research Education Program, RBWH, Brisbane, Australia, 13th February 2018
Hardy, J. Symptomatic treatment of dyspnoea – what works, what doesn’t? Mater Thursday Morning Education Session, Mater Health Services, Brisbane, Australia, 13th September 2018
Herston Imaging Research Facility

The Herston Imaging Research Facility (HIRF) is a dedicated facility for human imaging research on the RBWH campus. The facility houses one of only four combined PET and MR scanners in Australia, as well as a 3T Prisma MRI scanner and a PET/CT scanner. HIRF is an alliance of four partners: Queensland University of Technology, University of Queensland, Metro North Hospital and Health Service, 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 for researchers to use at HIRF.

HIRF is operated as a unit of RBWH, utilising RBWH radiographers and nuclear medicine technologists to operate the scanners. Being a stand-alone facility separate to the clinical radiology and nuclear medicine departments, HIRF offers greater access and booking certainty to imaging scanners than is possible in a busy clinical environment. As well as offering a pleasant environment for research participants, HIRF reduces the research load on clinical scanners, reducing impact on clinical wait-list times. In 2018, HIRF undertook research imaging for more than 10 new and on-going commercial clinical trials by pharmaceutical companies.

Since opening in 2015 HIRF has seen considerable growth in the number of research projects and scan volumes as well as complexity and diversity of imaging projects. By the end of 2018 scan numbers were routinely more than 100 per month and over 50 research studies were actively recruiting. There are also many studies in the pre-start-up phase with commencement planned for 2019. 2018 saw the appointment of Associate Professor Katie McMahon as deputy director of HIRF. Katie brings great expertise in MR imaging and physics and a strong track record in MR research to HIRF and she has provided valuable support to researchers seeking to undertake MR projects at HIRF. A further round of HIRF seed grants in 2018 resulted in four successful grants covering research projects in stroke, post traumatic dysarthria, mild traumatic brain injury, and cerebral hypoxia. These grants are designed to interest researchers new to imaging to initiate imaging research programmes. A further objective is to provide researchers with pilot data to facilitate external grant applications.

A new initiative in 2018 was to provide a dedicated officer to assist researchers with ethics and governance applications. This was very successful and greatly assisted busy clinicians to move their projects through the approval process and allowed more rapid project commencement. Significant improvements in IT capability during the year resulted in most researchers having electronic distribution of research images, considerably reducing the time required to access images. A new RIS/PACS has also speeded up turnaround times for safety reads on research images. 2018 was also marked by increased collaboration activity between HIRF and research groups, including the Jamieson Trauma Institute, CSIRO and the Biofabrication Facility.

This year HIRF has made significant contributions many projects that relate to neurocognition and neuropsychiatry that attempt to define and understand the causes of melancholic depression, the ageing process and dementia, Parkinson’s disease and the effects of deep brain stimulation. These studies have resulted in publications in top-tier journals such as Nature Neuroscience and Nature Communications and the journal of the American Association of Physicists in Medicine.

2018 HIRF Scientific Advisory Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Role</th>
<th>Collaborative Partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Paul Thomas</td>
<td>Associate Professor</td>
<td>Director of HIRF</td>
<td>RBWH, HIRF and Dept of Nuclear Medicine</td>
</tr>
<tr>
<td>A/Prof Katie McMahon</td>
<td>Associate Professor</td>
<td>Deputy Director of HIRF</td>
<td>QUT, School of Clinical Sciences</td>
</tr>
<tr>
<td>Ms Louise Campbell</td>
<td></td>
<td>Operations Manager of HIRF</td>
<td>RBWH, HIRF and Dept of Nuclear Medicine</td>
</tr>
<tr>
<td>Prof Michael Breakspear</td>
<td>Professor</td>
<td>Programme Co-ordinator of Mental Health Research</td>
<td>QIMR-Berghofer</td>
</tr>
<tr>
<td>Dr Lizbeth Kenny AO</td>
<td>Professor</td>
<td>Senior Radiation Oncologist, Medical Director – Central Integrated Regional Cancer Service</td>
<td>UQ, School of Medicine, RBWH, Dept of Radiation Oncology</td>
</tr>
<tr>
<td>Prof Greig de Zubicaray</td>
<td>Professor</td>
<td>Deputy Director</td>
<td>QUT, Institute of Health and Biomedical Innovation</td>
</tr>
<tr>
<td>Prof David Copland</td>
<td>Professor</td>
<td>Senior Research Fellow – Speech Pathology and Language Neuroscience</td>
<td>UQCCR</td>
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</tbody>
</table>

Paul Thomas
Director
Herston Imaging Research Facility
2018 HIRF Scientific Advisory Committee (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Role</th>
<th>Collaborative Partner</th>
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</thead>
<tbody>
<tr>
<td>Prof Pamela Rowntree</td>
<td>Professor</td>
<td>Director of Academic Programmes</td>
<td>QUT, School of Clinical Sciences</td>
</tr>
<tr>
<td>Prof Paul Cumming</td>
<td>Professor</td>
<td>Senior Research Fellow</td>
<td>QUT, School of Psychology and Counselling</td>
</tr>
<tr>
<td>Prof Graham Kerr</td>
<td>Professor</td>
<td>Program Leader for Injury Prevention</td>
<td>QUT, Institute of Health and Biomedical Innovation</td>
</tr>
<tr>
<td>Prof Alan Coulthard</td>
<td>Professor</td>
<td>Senior Interventional Neuro-radiologist</td>
<td>UQ, School of Medicine, RBWH, Dept of Medical Imaging</td>
</tr>
<tr>
<td>Prof Graham Galloway</td>
<td>Professor</td>
<td>Director of Imaging Technology</td>
<td>UQ, Translational Research Institute</td>
</tr>
<tr>
<td>Dr Thomas Gaass</td>
<td>PhD</td>
<td>Senior Scientist MRI</td>
<td>Siemens Healthineers of Australia</td>
</tr>
<tr>
<td>Dr Jurgen Fripp</td>
<td>PhD</td>
<td>Senior Research Fellow</td>
<td>CSIRO, Australian e-Health Research Centre</td>
</tr>
<tr>
<td>Dr Jye Smith</td>
<td>PhD</td>
<td>Principal Medical Physicist</td>
<td>RBWH, Dept Nuclear Medicine</td>
</tr>
<tr>
<td>Dr Marcus Gray</td>
<td>PhD</td>
<td>Senior Research Fellow</td>
<td>UQ, Translational Research Institute</td>
</tr>
<tr>
<td>Dr Konstantin Momot</td>
<td>PhD</td>
<td>Senior Lecturer</td>
<td>QUT, Dept of Physics</td>
</tr>
<tr>
<td>Dr Marita Prior</td>
<td>PhD</td>
<td>Research Development</td>
<td>RBWH, Dept of Medical Imaging, HIRF</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speakers:

1. McMahon KL. ‘HIRF Capabilities in Trauma’. 2018, Jameison Trauma Institute
5. Thomas PA. “Promising novel PET developments”. Australian Lymphoma and Leukaemia Group Scientific Meeting Brisbane 2018
6. Thomas PA. “Imaging in the rapidly changing world of cancer therapeutics” Imaging @ Brisbane 2018, Brisbane
7. Thomas PA. “Theranostics: combining imaging diagnosis and therapy” Princess Alexandra Hospital Healthcare Symposium. 2018
Oral Presentations:
1. Yang J. ‘Altered network connectivity during resting state in Parkinson’s disease patients with mild cognitive impairment as a marker for dementia’. 2018, ACNS, Melbourne, Australia
2. Guo, C. 2018, Anterior hippocampal connectivity during natural memory retrieval predicts recall confidence. OHBM

Poster Presentations:
2. Gauvin H, Ramajoo K, Brownsett S, McMahon KL, de Zubicaray GI. Testing embodied cognition with a large premotor cortex lesion – a single case study. Society for Neurobiology of Language, Quebec, Aug 16-19, 2018
3. Gauvin H, McMahon KL, de Zubicaray GI. Lexical selection and the elusive role of the left IFG: an fMRI study Society for Neurobiology of Language, Quebec, Aug 16-19, 2018

Above: Tracking the healthy white matter in the brain. The fibres are colour coded to indicate the direction they travel – Anterior-Posterior green, Left-Right red, Head-Foot blue
Right: Fluorodeoxyglucose (FDG)- positron emission tomography (PET) image
MRI of the prostate:
Ga-68 PMSA PET fused with the MRI image, showing a clear prostate cancer lesion (yellow)

Histology of the prostate confirming cancer site

High resolution proton density SPACE image with magnetisation transfer contrast of a hand. Taken using a hand coil

Ga-68 PMSA PET image showing metastases of prostate cancer
The establishment of the Jamieson Trauma Institute (JTI) was first announced in November 2017, and funding agreements commenced in July 2018 with strong 5-year investment from Metro North HHS and the Motor Accident Insurance Commission (MAIC). A core team of staff have been recruited and importantly in August 2018, JTI welcomed Professor Michael Schuetz as the Director. The team includes senior research staff, rehabilitation chair, biostatistics, epidemiology and administrative staff. In addition, clinical representatives and honorary positions have been appointed with organisations including RBWH, Herston Imaging Research Facility, University of Queensland, Monash University, Royal Australian College of Surgeons, ADF UQ Military Medicine and Metro South HHS, developing collaborations with Queensland Brain Institute (UQ), Herston QUT Biofabrication Unit, rehabilitation services and research centres with plans to continue to grow collaborations and positions in the coming year.

The inaugural year has been highly productive with the establishment of governance structures, a Research Advisory Committee and External Advisory Committees to provide strategic guidance and accountability of invested funding. In 2018 JTI also established the Queensland Trauma and Burns Quality Assurance Committee (QTBQAC), a privileged committee to review opportunities for improvements in the management of patients with traumatic and burn injury in Queensland.

JTI is developing key themes to focus the institutes research and direction, including:

- Quality and Data Analytics
- Injury Prevention and Epidemiology
- Clinical Trials
- Innovations, Diagnostics and Translation
- Education and Training
- Virtual Trauma Centre
- Rehabilitation and Outcome Measurement.

Jointly funded positions with AusHSI, QUT in Health Economics, and CSIRO have been established to commence in JTI in early 2019, to advance core research and support the advancement of the Queensland Trauma Data Warehouse development.

In 2018 the research team have been successful in grants and fellowship submissions including projects on opioid use following trauma and splenic trauma. In addition to numerous peer-reviewed research publications, JTI accepted their first PhD student enrolment and supported successful Clinical Fellowship applications. JTI hosted several visiting fellows in 2018 with success in obtaining Visiting Fellow funding with QUT to host Prof Erwin Bottinger, Director of Digital Health from Hasso-Plattner Institute, Germany in 2019. A key research collaboration with CSDS, UQ, QUT and other partners is the Augmented/Virtual Reality project, to improve point of care support to remote clinicians by interactive Specialist Telepresence.

Multiple statewide data linkage studies have commenced including Opioid use post trauma; Outcomes from lower limb and pelvic fractures following land transport crashes; Injury Severity Measurement using ICD coding; Retrieval pathways following trauma. Events showcasing JTI research achievements occurred throughout 2018, culminating in the ‘Intersections and Opportunities’ event on 6th December 2018, at which the JTI website was also launched.

**Supervised Post-Graduate Research Students**

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Mahoney</td>
<td>PhD, UQ</td>
<td>(2018 – current)</td>
<td>The spatial epidemiology of trauma in Queensland</td>
<td>Michael Reade, Kirsten Vallmuur, Cate Cameron, Kerrie Mengerson</td>
</tr>
<tr>
<td>Martha Druery</td>
<td>PhD, UQ</td>
<td>(2014 – current)</td>
<td>Psychosocial outcomes post-major burn injuries in adults – a longitudinal exploratory study</td>
<td>Jeff Lipman, Peter Newcombe, Cate Cameron</td>
</tr>
<tr>
<td>Erin Pitt</td>
<td>PhD, GU</td>
<td>(2013 – current)</td>
<td>Early childhood food consumption and dietary patterns: the influence of socio-economic and demographic factors and the food environment</td>
<td>Tracy Comans, Cate Cameron, Lukar Thornton, Danielle Gallegos</td>
</tr>
<tr>
<td>Catherine Niven</td>
<td>PhD, QUT</td>
<td>(2017 – current)</td>
<td>Evaluating consumer product safety regulator responses to hazardous child products in Australia and USA to inform health and safety policies and improve the safety of Australian children</td>
<td>Kirsten Vallmuur, Ben Matthews</td>
</tr>
<tr>
<td>Kim Vuong</td>
<td>PhD, QUT</td>
<td>(2015 – current)</td>
<td>Quads and Kids: understanding parents’ knowledge, attitudes and beliefs about safety and risks</td>
<td>Angela Watson, Joni Lewis, Kirsten Vallmuur</td>
</tr>
<tr>
<td>Caroline Gillespie</td>
<td>PhD, QUT</td>
<td>(2015 – current)</td>
<td>Influencing Safety in Supply Chains: challenges and Opportunities for Businesses</td>
<td>Kirsten Vallmuur, Narelle Haworth, Darren Wishart</td>
</tr>
</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Schuetz</td>
<td>Director/Chair of Trauma</td>
<td>Innovations, Diagnostics and Translation</td>
<td>QUT</td>
</tr>
<tr>
<td>Kirsten Vallmuur</td>
<td>Honorary Principal Research Fellow/MAIC Principal Research Fellow</td>
<td>Quality and Data Analytics</td>
<td>QUT</td>
</tr>
<tr>
<td>Cate Cameron</td>
<td>Principal Research Fellow/Adjunct Associate Professor</td>
<td>Injury Prevention and Epidemiology</td>
<td>QUT</td>
</tr>
<tr>
<td>David Douglas</td>
<td>Chair, Rehabilitation Medicine/Adjunct Associate Professor</td>
<td>Rehabilitation and Outcome Measurement</td>
<td>UQ</td>
</tr>
<tr>
<td>Jacelle Warren</td>
<td>Biostatistician</td>
<td>Quality and Data Analytics</td>
<td></td>
</tr>
<tr>
<td>Michael Reade</td>
<td>Clinical Representative, Australian Defence Force/Professor of Military Medicine</td>
<td>Clinical Trials</td>
<td>UQ</td>
</tr>
<tr>
<td>Carl Lisec</td>
<td>Clinical Representative, Burns and Trauma/Senior Lecturer</td>
<td>Burns and Trauma</td>
<td>UQ</td>
</tr>
<tr>
<td>Jason Brown</td>
<td>Clinical Representative, Burns and Trauma</td>
<td>Burns and Trauma</td>
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<tr>
<td>Paul Thomas</td>
<td>Clinical Representative, Diagnostics/Associate Professor</td>
<td>Innovations, Diagnostics and Translation</td>
<td>UQ</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Clinical Representative, Orthopaedics/Adjunct Associate Professor</td>
<td>Orthopaedic Trauma</td>
<td>UQ</td>
</tr>
<tr>
<td>Cliff Pollard</td>
<td>Honorary Clinical Representative/Adjunct Associate Professor</td>
<td>Virtual Trauma Centre (VTC): Augmented Reality and Virtual Reality in Trauma Care</td>
<td>UQ</td>
</tr>
<tr>
<td>Mark Midwinter</td>
<td>Honorary Clinical Representative/Professor of Clinical Anatomy</td>
<td>Virtual Trauma Centre (VTC): Augmented Reality and Virtual Reality in Trauma Care</td>
<td>UQ</td>
</tr>
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</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cate Cameron</td>
<td>Matthew Hope (PAH), Andrew Mayo, Kevin Tetsworth, Cate Cameron, Jacelle Warren, Kirsten Vallmuur, Cliff Pollard</td>
<td>The burden and cost of pelvic and lower extremity orthopaedic injuries from land transport crashes in Queensland</td>
</tr>
<tr>
<td>Cate Cameron</td>
<td>Michael Muller, Michael Rudd, Jacelle Warren</td>
<td>Epidemiology of burns patients admitted to the State-wide Adults Burns Service in Queensland: a 10-year review</td>
</tr>
<tr>
<td>Cate Cameron</td>
<td>Bill Loveday (MRQ); Kirsten Vallmuur, Melanie Proper, Jacelle Warren, Cliff Pollard, Natalie Bradford, Nick Graves, Hannah Carter (QUT)</td>
<td>Prevalence and impact of opioid use pre- and post-trauma in Queensland: population-based data linkage study</td>
</tr>
<tr>
<td>Kirsten Vallmuur</td>
<td>Angela Watson (QUT); Paul Taylor (MAIC), Cate Cameron, Jacelle Warren</td>
<td>An examination of the quality of injury data and patterns, trends and burden of injury for informing establishment of a statewide trauma data warehouse</td>
</tr>
<tr>
<td>Kirsten Vallmuur</td>
<td>Angela Watson (QUT); Chris Uber (UQ); Belinda Gabbe (Monash Unii); James Harrison (Flinders Uni); Son Ngheim (Griffith Uni); Cate Cameron, Jacelle Warren</td>
<td>Evaluation of ICD-10-AM based injury severity estimation models</td>
</tr>
<tr>
<td>Kirsten Vallmuur</td>
<td>Angela Watson (QUT); Paul Taylor (MAIC), Michael Clacher (QLD Treasury); Sebastian Bielen (GIR); Andrew Currie (WorkCover), Cate Cameron, Jacelle Warren</td>
<td>Feasibility, requirements, and value of data linkage of motor vehicle accident compensation, workers compensation and health data in Queensland</td>
</tr>
<tr>
<td>Kirsten Vallmuur</td>
<td>Michael Rudd, Cliff Pollard, Jacelle Warren, Kirsten Vallmuur, Olivia Zheng</td>
<td>Evaluation of RBWH trauma service effectiveness</td>
</tr>
<tr>
<td>Cate Cameron</td>
<td>Maura Desmond, Michael Rudd, Cliff Pollard, Kerianne Watt (JCU)</td>
<td>P.A.R.T.Y. Program Outcome Evaluation (2010-2018)</td>
</tr>
<tr>
<td>Michael Schuetz</td>
<td>Brett Droder (QUT)</td>
<td>Initial investigation into Checkpad MED and potential use for RBWH</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Andrews, Moe Thandar Wynn, Arthur ter Hofstede (QUT); Stephen Rashford, Emma Bosley (QAS); Mark Elcock (RSQ)</td>
<td>Kirsten Vallmuur</td>
<td>Identifying pre-hospital retrieval processes for road trauma patients in Queensland</td>
</tr>
<tr>
<td>Patrick Biggins (UQ)</td>
<td>Michael Reade, Kirsten Vallmuur, Cate Cameron, Jacelle Warren</td>
<td>The effect of time to definitive neurosurgical treatment on patient morbidity and mortality in isolated traumatic brain injury</td>
</tr>
<tr>
<td>Deb Theodoros, Louise Cahill (UQ)</td>
<td>Jacelle Warren, Cate Cameron, Kirsten Vallmuur</td>
<td>Distribution and type of inpatient allied health services provided to patients following road traffic crashes across Queensland</td>
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</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watson A, Vallmuur K, Siskind V, Sheehan M, Sensenick T</td>
<td>Jamieson Trauma Institute</td>
<td>Analysis of Queensland fatalities and serious injury crash characteristics and management by geographic region</td>
<td>MAIC</td>
<td>$78,000</td>
<td>$78,000 (2018)</td>
</tr>
<tr>
<td>Vallmuur K, Eley R, Roudenko A</td>
<td>Jamieson Trauma Institute</td>
<td>Understanding the patterns, circumstances and outcomes of power tool injuries presenting to the emergency department to inform a national safety campaign</td>
<td>IHBI Injury Prevention Program Seeding Grant</td>
<td>$6,000</td>
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</table>

2018 Research Publications

Journal Articles:
Journal Articles: (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Vallmuur K, Cameron C, Warren J, Pollard C. Queensland Trauma Data Warehouse – Research Priorities and Progress, 2018 RACS Combined Tasmanian Annual Scientific Meeting and Trauma Symposium, Hobart, 9-10 November 2018


Oral Presentations:
1. Santomauro C, McCurdie T, Pollard C, Shuker M: investigating the use of Interactive Telepresence Technology to Support Remote Clinicians Treating Patients with Traumatic Injuries, 2018 RACS Combined Tasmanian Annual Scientific Meeting & Trauma Symposium, Hobart, 9-10 November 2018


Poster Presentations:
1. Warren J, Cameron C, Muller M. Epidemiology of burns patients admitted to the State-wide Adults Burns Service in Queensland: a 10-year Review, ANZBA 2018 ASM, Brisbane, 16-19 October 2018


Other Communications and Outputs:
- JTI Showcase – 27 Mar 2018
- QBI/JTI/BDHP Brain Injury Workshop – 4 Sept 2018
- JTI Think Tank – 24 Sept 2018
- Grand Rounds/Seminars – 25 Sept; 7 Nov
- Traumatic Brain Injury Workshop – 7 Nov
- JTI Planning Day – 30 Nov 2018 – JTI Team and Clinicians
# Publications / Presentations Summary Table 2018

<table>
<thead>
<tr>
<th>Research Group / Department</th>
<th>Publications</th>
<th>Presentations National and International</th>
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<tbody>
<tr>
<td></td>
<td>Journal Articles</td>
<td>Books and Chapters</td>
</tr>
<tr>
<td><strong>Allied Health Professionals</strong></td>
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<tr>
<td>Centre for Allied Health Research</td>
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<tr>
<td>Nutrition and Dietetics</td>
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<td>Occupational Therapy</td>
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<td>Department of General Surgery – Unit 3 Colorectal</td>
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<td>Kenneth G Jamieson, Department of Neurosurgery</td>
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<td>Professor Stuart Pegg Burns Centre</td>
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ALLIED HEALTH
Allied Health Professionals

The Allied Health Professions (AHP) service line comprises 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. 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.

Investment in supporting clinicians to undertake research as part of practice has been a cornerstone of Allied Health research capacity building both throughout Metro North and the RBWH over recent years. We have developed dedicated research capability across most disciplines providing practical support to clinicians in evaluating their everyday practice, resulting in improved patient care and important end user knowledge to the wider academic community. Currently there are 20 of our RBWH Allied Health Partitioners undertaking a research higher degree (RHD). Our experienced researchers are involved in the supervision of an additional 29 RHD students across multiple universities; many of these students undertaking vital research that contributes to enhanced service delivery and patient care. We had one clinician, Dr Peter Window, complete his PhD in 2018.

This investment has seen continued growth in a number of the Allied Health Research achievements. In 2018, AHP staff were successful in authoring 77 peer reviewed publications and attracting $1.04M dollars in competitive grant funding. Additionally, staff presented over 82 presentations or posters at national and international conferences. Our staff were also recognised with 26 research awards, including the Health Services and Implementation Research Award (Physiotherapy Screening Clinic Research Team led by Maree Raymer) and Rising Star Award (Dr Nicole Andrews) in the 2018 MNHHS Research Excellence Awards, and Health Practitioner Researcher of the Year (Dr Adrienne Young) at the RBWH Research Symposium. We welcome Dr Young in her appointment as the AHP Principal Research Fellow for 2019 and 2020, and would like to thank Dr Susan de Jersey for her valuable contribution in this role and leadership of the Allied Health research program in 2018.

In 2018 we commenced our research planning for the new Surgical Treatment and Rehabilitation Service (STaRS), and the primary partnership with the University of Queensland. We also appreciate and thank the contribution of all our 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 2018.
The Centre for Allied Health Research (CAHR) is a network of Allied Health clinician researchers with a focus on building capacity for high quality research and evaluation within everyday clinical practice. The vision is to facilitate advances to health care and service delivery that translate into improvements to patient outcomes. The team provide support to both experienced and novice clinicians in developing and implementing health services research and evaluation within their practice. A number of higher research degree students, often practicing clinicians are supervised.

In 2018, the CAHR staff established the RBWH Allied Health Quality and Research Advisory Group that aims to build capability and capacity for allied health quality improvement, research, evaluation and innovation within allied health staff and to increase communication and foster collaboration across allied health clinicians and across service lines. Some of the key achievements of this group included undertaking a baseline audit of time spent on research and understanding research capacity and culture of RBWH allied health staff. This has been used to develop a tailored strategy within each allied health team to build research capacity and address identified barriers. In addition, research resources and processes have been developed to streamline research and quality improvement documentation across allied health, increase awareness of existing software and equipment resources for research and provided a forum for peer review and feedback for clinician led quality improvement and research projects.

The CAHR agenda continues to grow in diversity and impact with a wide range of multidisciplinary health service collaborators and university partners.

### Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
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<tbody>
<tr>
<td>Katrina Ridout</td>
<td>PhD, QUT (2016-2021)</td>
<td></td>
<td>Antenatal lifestyle intervention programs targeting healthy gestational weight gain and management: exploring the barriers and enablers to participation for women who are overweight or obese</td>
<td>Susan de Jersey, Danielle Gallegos, Shelley Wilkinson</td>
</tr>
<tr>
<td>Carrie-Anne Lewis</td>
<td>PhD, UQ (2016-2021)</td>
<td></td>
<td>Micronutrient and protein energy malnutrition outcomes in a bariatric surgery outpatient clinic</td>
<td>Ingrid Hickman, Susan de Jersey, Emma Osland</td>
</tr>
<tr>
<td>Nina Meloncelli</td>
<td>PhD, QUT (2016-2019)</td>
<td></td>
<td>Management of gestational diabetes: exploring practices, evidence base and models of care among the multidisciplinary team</td>
<td>Susan de Jersey, Adrian Barnett</td>
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### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
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<tbody>
<tr>
<td>Angela Chang</td>
<td>Research Coordinator, Honorary Senior Lecturer</td>
<td>Centre for Allied Health Research School of Health and Rehabilitation Sciences</td>
<td>2016 – current UQ (2018-2021)</td>
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<tr>
<td>Peter Buttrum</td>
<td>Adjunct Associate Professor</td>
<td>School of Health and Rehabilitation Sciences</td>
<td>UQ (2016 – current)</td>
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<tr>
<td>Susan de Jersey</td>
<td>Principal Research Fellow</td>
<td>Centre for Allied Health Research</td>
<td>2017-2019</td>
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<tr>
<td>Susan de Jersey</td>
<td>Visiting Research Fellow</td>
<td>Preventing and managing lifestyle chronic disease in women and children</td>
<td>Queensland University of Technology (2013 – current)</td>
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### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
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<tbody>
<tr>
<td>Angela Chang</td>
<td>Anna Farrell, Merrilyn Banks (Nutrition and Dietetics), Peter Buttrum</td>
<td>How much time do allied health clinicians spend undertaking research?</td>
</tr>
<tr>
<td>Angela Chang</td>
<td>Susan de Jersey, Anna Farrell (Speech Pathology), Jenny Strong (Occupational Therapy), Adrienne Young (Nutrition and Dietetics), Gai Harrison (Social Work), Jennifer Paratz (Physiotherapy), Peter Buttrum, Merrilyn Banks (Research)</td>
<td>Understanding research capacity and outputs in allied health workforce at RBWH</td>
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<tr>
<td>Susan de Jersey</td>
<td>Leonie Callaway (UQ, WNBS), 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)</td>
<td>Evaluation of workforce training to support Healthy Pregnancy Healthy Baby</td>
</tr>
<tr>
<td>Susan de Jersey</td>
<td>Leonie Callaway (UQ, WNBS), Taylor Guthrie (Nutrition and Dietetics), Jeanette Tyler (Women’s and Newborn), Nickie Moreton (Women’s and Newborn), Karen New (UQ, Women’s and Newborn)</td>
<td>Efficacy of a low intensity consumer held pregnancy weight monitoring tool to prevent excess gestational weight gain</td>
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<tr>
<td>Susan de Jersey</td>
<td>Elizabeth Eakin (UQ, SPH), Shelley Wilkinson (Mater), Tracy Comans (CAHR), Leonie Callaway (UQ, WNBS), Claire Gardiner (Nutrition and Dietetics), Taylor Guthrie (Nutrition and Dietetics), Hilary Jimmieson (Nutrition and Dietetics), Angela Chang</td>
<td>Implementation evaluation of a telephone-delivered dietetic model of care for overweight pregnant women</td>
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<tr>
<td>Susan de Jersey</td>
<td>Natasha Lorenzen, Taylor Guthrie (Nutrition and Dietetics)</td>
<td>Gestational Diabetes Service Nutrition Practice Guidelines and Outcomes clinical audit</td>
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<tr>
<td>Susan de Jersey</td>
<td>Kimberley Mallan (ACU), Lynne Daniels (QUT), Rebecca Byrne (QUT)</td>
<td>New Beginnings Healthy Mothers and Babies Study: long-term Follow-up</td>
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### 2018 Collaborative Research Activity involving RBWH Research Group/Department

<table>
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<th>Collaborative Lead Researchers</th>
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<th>Research Project Title</th>
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<tbody>
<tr>
<td>Alice Pender (Audiology)</td>
<td>Carla Rose (Audiology), Angela Chang, Tracy Comans (UQ)</td>
<td>Patient outcomes following cochlear implant surgery</td>
</tr>
<tr>
<td>Carla Rose (Audiology)</td>
<td>Alice Pender (Audiology), Angela Chang, Tracy Comans (UQ)</td>
<td>Using telehealth to manage patients following cochlear implant surgery</td>
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<tr>
<td>Carrie-Anne Lewis (Nutrition and Dietetics)</td>
<td>Ingrid Hickman (PAH), 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)</td>
<td>Micronutrient and protein energy malnutrition outcomes in a weight loss surgery population</td>
</tr>
<tr>
<td>Claire Dux (Nutrition and Dietetics)</td>
<td>Susan de Jersey, Emma Osland, Sandra Heaydon (Surgery), Lindy Jeffree (Surgery)</td>
<td>Evaluation of the Transition Feeding Pathway on the Neurosurgery Ward</td>
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<tr>
<td>Genesta Nicolson (Psychology)</td>
<td>Angela Chang</td>
<td>Implementing an evidence-based multidisciplinary pre-medical group education day for non-urgent referrals to the Professor Tess Crumond Multidisciplinary Pain Centre</td>
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<tr>
<td>Helen Barrett (UQ, Mater Health Services)</td>
<td>Marloes Dekker (UQ), H David McIntyre (Mater and UQ), Michael d’Emmbden, Leonie Callaway, Susan de Jersey</td>
<td>Post prandial triglycerides in diabetes in pregnancy: a pilot study</td>
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<tr>
<td>Hilary Powlesland (Nutrition and Dietetics)</td>
<td>Clare Byrne, Susan de Jersey</td>
<td>Evaluation of the New Beginnings program</td>
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<tr>
<td>Jane Musial (Nutrition and Dietetics)</td>
<td>Mary Hannan-Jones (Nutrition and Dietetics), Adrienne Young (Nutrition and Dietetics), Susan de Jersey, Bonnie Lau, Robbie Mullins</td>
<td>Evaluation of combined QUT-RBWH diabetes clinic-patient and service outcomes</td>
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<tr>
<td>Kate Morgan (Nutrition and Dietetics)</td>
<td>Adrienne Young, Susan de Jersey, Belinda Mason</td>
<td>Evaluation of nutrition and dietetics services to in-centre haemodialysis patients</td>
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### 2018 Collaborative Research Activity involving RBWH Research Group/Department (cont)

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<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
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<tr>
<td>Maree Raymer (Physiotherapy)</td>
<td>Patrick Swete Kelly (Physiotherapy), Louise Wellington (Physiotherapy), <strong>Angela Chang</strong></td>
<td>Consultation process to facilitate the development and trial of a workforce development pathway to support advanced musculoskeletal physiotherapy (AMP) roles</td>
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<tr>
<td>Maree Raymer (Physiotherapy)</td>
<td>Nicole Moretto, <strong>Angela Chang</strong>, Shaun O'Leary (Physiotherapy), Lachlan Standfield (Griffith University), Tracy Comans (UQ)</td>
<td>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)</td>
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<tr>
<td>Maree Raymer (Physiotherapy)</td>
<td><strong>Angela Chang</strong>, Shaun O'Leary (Physiotherapy), Nicole Moretto, Tracy Comans (UQ), Sonya Osborne (AuSHS), Hannah Carter (AuSHS), Dean Blond (Gold Coast), Tania Cavanagh (Cairns and Hinterland), David Smith (West Moreton)</td>
<td>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)</td>
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<tr>
<td>Matthew Leong (Thoracic Medicine)</td>
<td>Michael Brown (Thoracic Medicine), Dinhithi Samaratunga (Thoracic Medicine), <strong>Angela Chang</strong></td>
<td>Encouraging Nasal/nasal pillow masks during initial titration reduces recommended CPAP pressures and improves titration outcomes</td>
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<td>Michelle Palmer (MSHHS)</td>
<td>Helen Porteous (MSHHS), <strong>Susan de Jersey</strong></td>
<td>Attendance rates and demographic descriptors of obese women referred to the diettian for weight management advice during pregnancy</td>
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<tr>
<td>Michelle Stute (Allied Health, MHNHS)</td>
<td>Peter Buttrum, Merrilyn Banks (Research), Maree Raymer (Physiotherapy), Tracy Comans (UQ), Sonia Sam (Allied Health MHNHS), Nicole Moretto (Allied Health MHNHS), Marita Plunkett (Allied Health)</td>
<td>Allied Health Specialist Clinics Project</td>
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**2018 Research Awards and Achievements**

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<th>Recipient</th>
<th>Award</th>
<th>Event</th>
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<tr>
<td>Maree Raymer (Physiotherapy), Shaun O'Leary (Physiotherapy), Tracy Comans (UQ), <strong>Angela Chang</strong>, Nicole Moretto, Lachlan Standfield (Griffith)</td>
<td>Health Services and Implementation Research Award</td>
<td>MHNHS 2018 Research Excellence Awards</td>
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<td><strong>Susan de Jersey</strong>, Jeanette Tyler (WNBS), Taylor Guthrie, Karen New (UQ), Lynne Beutow (WNBS), Clare Byrne, Hilary Powlesland, Marie Greco</td>
<td>Overall Customer Focus Award</td>
<td>2018 RBWH QuARRIES Award</td>
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<tr>
<td><strong>Susan de Jersey</strong>, Taylor Guthrie</td>
<td>Best Allied Health Poster</td>
<td>Australasian Diabetes in Pregnancy Society Conference, 24-26 August 2018</td>
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**2018 Research Grants – Awarded**

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<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
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<tr>
<td><strong>Susan de Jersey</strong>, Elizabeth Eakin, Shelley Wilkinson, Tracey Comans, Leonie Callaway, Claire Gardiner</td>
<td>Dept of Nutrition and Dietetics, Obstetric Medicine, Centre for Allied Health Research</td>
<td>Implementation evaluation of a telephone-delivered dietetic model of care for overweight pregnant women</td>
<td>RBWH Foundation</td>
<td>$32,520</td>
<td>$39,024 (2017-2018)</td>
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<td><strong>Susan de Jersey</strong>, Adrian Barnett (QUT), Rachel Hayes (SCHHS), Elise Gilberston (SCHHS), Michelle Mack (SCHHS), Rebekah Shakhovskoy (SCHHS), Sophie Poulter (SCHHS)</td>
<td>Nutrition and Dietetics Researchers</td>
<td>Evaluation of a dietitian-led model of care in low risk gestational diabetes pregnancies</td>
<td>Health Practitioners Research Scheme Grant</td>
<td>$14,818</td>
<td>$29,636 (2018-2019)</td>
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2018 Research Publications

Journal Articles:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentation:
2. De Jersey S, Guthrie T, Callaway L, Tyler J, New K. Successful changes to practice following a dietetic lead service wide implementation strategy supporting health weight gain in pregnancy. Dietitians Association of Australia. May 2018
4. Kukulies D, Gallegos D, De Jersey S, Tran CQ, Phan THT, Vo DT, Do, DNT, Hannan-Jones M. Excess gestational weight gain is an issue in Ho Chi Minh City, Viet Nam. The 7th Asian Congress of Dietetics. Hung Hom, Hong Kong, July 2018
7. Powlesland H, Yin Ling W, Tyler J, New K, De Jersey S. Staff attitudes and practices to support healthy pregnancy weight gain following the implementation of service-wide education and routine weight tracking. Dietitians Association of Australia. May 2018

Poster Presentation:
3. Leong M, Brown M, Samaratunga D, Chang AT. Encouraging nasal / nasal pillow masks during initial titration reduces recommended CPAP levels and improves CAPA titration outcomes. Sleep DownUnder, Australasian Sleep Association Conference, Brisbane October 2018

Other Communications and Outputs:

Nutrition and Dietetics

Research vision:
Our research vision is to be leaders in nutrition and dietetic research, with the overall aim of providing excellent and evidence-based services for the RBWH community. This is achieved through developing capacity within the department to support all dietitians to engage in research and evaluation, and building networks with researchers across RBWH, Metro North HHS and academic partners.

We aim to improve the nutrition and health of our patients through knowledge generation and translation to ensure delivery of evidence-based nutrition care. Our research has led to implementation of programs to prevent and treat malnutrition and pressure injuries across Queensland hospitals; proactive pre-treatment nutrition support for patients undergoing treatment for head and neck cancer; and changes to routine antenatal care that has seen a reduction in the proportion of women gaining excess weight in pregnancy, preventing future chronic disease in both the women and their children.

Highlights of 2018:
RBWH Nutrition and Dietetics department has had one of its strongest years in research and innovation yet:

- 14 awards, including Highly Commended in the Health Services and Implementation and Complex Health Challenges categories at the MNHHS Research Excellence awards; four conference prizes and two RBWH QuARRIE awards
- 32 peer-reviewed publications (including 19 first author publication) and one invited book chapter
- 25 oral conference presentations at national and international conferences
- More than $675,000 in competitive research grants and scholarships, with 85% of these grants having a RBWH dietitian named as Chief Investigator
- Clinician-researchers Angela Byrnes and Kylie Matthews each submitted their PhD theses for examination, with a further five RBWH clinical dietitians currently undertaking a PhD.
<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alvin Wong</td>
<td>PhD, UQ (2016-2018) Conferred 2018</td>
<td></td>
<td>Cost effectiveness of nutrition support services</td>
<td>Merrilyn Banks, Judy Bauer</td>
</tr>
<tr>
<td>Angela Byrnes</td>
<td>PhD, UQ (2015-2018) Thesis submitted</td>
<td></td>
<td>Nutritional care and status of older surgical patients</td>
<td>Judy Bauer, Adrienne Young, Merrilyn Banks, Alison Mudge</td>
</tr>
<tr>
<td>Carrie-Anne Lewis</td>
<td></td>
<td></td>
<td>Micronutrient and protein energy malnutrition outcomes in a bariatric surgery outpatient clinic</td>
<td>Ingrid Hickman, Susan de Jersey, Emma Osland</td>
</tr>
<tr>
<td>Claire Nelson</td>
<td>PhD, QUT (2014-2019)</td>
<td></td>
<td>Investigation of nutrition status of community adults with lower leg wounds</td>
<td>Merrilyn Banks, Mary Hannan-Jones, Kathleen Findlayson</td>
</tr>
<tr>
<td>Emilie Croisier</td>
<td>PhD, UQ (2018-2021)</td>
<td></td>
<td>Nutritional outcomes of gynaecology patients undergoing pelvic radiotherapy: understanding the patient experience and dietary recommendations for symptom management</td>
<td>Judy Bauer, Teresa Brown</td>
</tr>
<tr>
<td>Joanna McCormack</td>
<td>PhD, GU (2018-2022)</td>
<td></td>
<td>How are food service dietitians learning about environmental sustainability: a qualitative systematic protocol</td>
<td>Christy Noble, Lynda Ross, Andrea Bialocerkowski, Denise Cruickshank</td>
</tr>
<tr>
<td>Joanne Hiatt</td>
<td>PhD, UQ (2017-2023)</td>
<td></td>
<td>Nutrition throughout head and neck cancer treatment: patient experience and adherence, barriers and enablers to enteral feeding recommendations</td>
<td>Merrilyn Banks, Teresa Brown, Judy Bauer</td>
</tr>
<tr>
<td>Katrina Ridout</td>
<td>PhD, QUT (2016-2021)</td>
<td></td>
<td>Antenatal lifestyle intervention programs targeting healthy gestational weight gain and management: exploring the barriers and enablers to participation for women who are overweight or obese</td>
<td>Susan de Jersey, Danielle Gallegos, Shelley Wilkinson</td>
</tr>
<tr>
<td>Nina Meloncelli</td>
<td>PhD, QUT (2016-2019)</td>
<td></td>
<td>Management of gestational diabetes: exploring practices, evidence base and models of care among the multidisciplinary team</td>
<td>Susan de Jersey, Adrian Barnett</td>
</tr>
<tr>
<td>Quoc Quong Tran</td>
<td>PhD, QUT (2014-2018) Thesis submitted</td>
<td></td>
<td>Nutritional status of patients in Vietnamese hospitals</td>
<td>Danielle Gallegos, Merrilyn Banks, Mary Hannan-Jones</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>PhD, UQ (2015-2019)</td>
<td></td>
<td>Investigating nutrition support during allogeneic stem cell transplantation</td>
<td>Judy Bauer, Merrilyn Banks, Olivia Wright</td>
</tr>
<tr>
<td>Simone Faulkner</td>
<td>PhD, QUT (2018-2020)</td>
<td></td>
<td>Nutritional status in people with Motor Neurone Disease</td>
<td>Peter Collins, Merrilyn Banks</td>
</tr>
</tbody>
</table>
## 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young</td>
<td>Research Coordinator, Adjunct Assoc Professor</td>
<td>Nutrition in older adults and hospital inpatients</td>
<td>Queensland University of Technology (2013 – current)</td>
</tr>
<tr>
<td>Lynda Ross</td>
<td>Visiting Fellow</td>
<td>Healthy Eating and Lifestyle Program (HELP) intervention evaluation and follow up</td>
<td>Griffith University (2014 – current)</td>
</tr>
<tr>
<td>Mary Hannan-Jones</td>
<td>Honorary Research Fellow</td>
<td>Improving quality of Food Services</td>
<td>Senior Lecturer, Queensland University of Technology (2014 – current)</td>
</tr>
<tr>
<td>Merrilyn Banks</td>
<td>Adjunct Assoc Professor</td>
<td>Efficacy and cost effectiveness of nutrition in healing pressure ulcers</td>
<td>Queensland University of Technology (2012 – current)</td>
</tr>
<tr>
<td>Susan de Jersey</td>
<td>Research Coordinator, Visiting Research Fellow</td>
<td>Preventing and managing lifestyle chronic disease in women and children</td>
<td>Queensland University of Technology (2013 – current)</td>
</tr>
<tr>
<td>Teresa Brown</td>
<td>Research Coordinator, Associate Lecturer</td>
<td>Nutrition in cancer care</td>
<td>University of Queensland (2018 – current)</td>
</tr>
</tbody>
</table>

## 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abigail Marsh</td>
<td>Jessica Kinneally, Tayla Robertson (PAH), Adrienne Young, Graham Radford Smith (Gastroenterology), Anna McMahon (Gastroenterology), Karen Sewell (Gastroenterology), Larissa McKinnon (Gastroenterology)</td>
<td>Nutritional Status, Nutrition Impact Symptoms, and Food Avoidance Behaviours in Patients with Inflammatory Bowel Disease</td>
</tr>
<tr>
<td>Abigail Marsh</td>
<td>Merrilyn Banks, Graham Radford Smith (Gastroenterology), Veronique Chachay (UQ)</td>
<td>Cross sectional analysis of dietary intake of patients attending the RBWH IBD outpatient clinics: how does their diet compare to Mediterranean diet?</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Carrie-Anne Lewis, Merrilyn Banks, Theresa Pen Yei Kwek (QUT), Ka Man Lau (QUT)</td>
<td>Evaluation of the impact of the Seven Day Nutrition Action Care plan on nutritional intake and care practices</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Merrilyn Banks, Tayla Robertson (PAH), Jo Hiatt, Kate Morgan, Danielle Gallegos (QUT), Angela Byrnes</td>
<td>Nutritional care in hospital: what is the patient experience?</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Angela Byrnes, Carrie-Anne Lewis, Cindy Jennings, Zoe Walsh (CISS)</td>
<td>Observation of mealtime care practices and nutritional intake for sub-acute older inpatients (2014-current)</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Claire Dux, Gai Harrison (Social Work), Maria Walls, Rachana Naidu, Raje Badwa, Jess Fry, Liliana Zapta, Carrie-Anne Lewis, Merrilyn Banks</td>
<td>Evaluation of the value of dietetic assistant (DA) role from the DA, patient and staff perspective</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Xuan Wang (QUT), Cassie Hoole, Rebecca Fichera</td>
<td>Patient involvement in dietary care: description of current practice</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Mikaela Wheeler (UQ), Angela Byrnes, Alison Mudge (IMS)</td>
<td>Co-designing a project to explore patient mealtime environments and experience</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Xuan Wang (QUT), Cassie Hoole, Rebecca Fichera</td>
<td>Consumer engagement – patient expectations of the inpatient dietary consultation</td>
</tr>
<tr>
<td>Ally di Bella</td>
<td>Merrilyn Banks, Tracy Comans (UQ), Ingrid Hickman (PAH), Donna Hickman (TPCH), Adrienne Young</td>
<td>Prevalence and impact of obesity in acute hospital setting</td>
</tr>
<tr>
<td>Ally di Bella</td>
<td>Winnie Soo Yii Tan (QUT), Merrilyn Banks, Tracy Comans (UQ), Ingrid Hickman (PAH), Donna Hickman (TPCH), Adrienne Young</td>
<td>Cost of obesity in the acute hospital setting</td>
</tr>
<tr>
<td>Amanda Watt</td>
<td>Emma Osland, Craig Harris (Surgery), David Taylor (Surgery), Adrienne Young</td>
<td>Examination of nutrition care and support practices for patients having pelvic exenteration surgery</td>
</tr>
<tr>
<td>Angela Byrnes</td>
<td>Adrienne Young, Merrilyn Banks, Alison Mudge (IMS), Judy Bauer (UQ)</td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: a multiphase, action research study</td>
</tr>
<tr>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
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<tr>
<td>-------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td><strong>Angela Byrnes</strong></td>
<td>ERAS in surgical wards: audit of current practice to inform improvement of perioperative nutrition care</td>
<td></td>
</tr>
<tr>
<td><strong>Angela Byrnes</strong></td>
<td>Exploring patient’s experience of perioperative nutrition education and care when undergoing elective colorectal surgery</td>
<td></td>
</tr>
<tr>
<td><strong>Carrie-Anne Lewis</strong></td>
<td>Micronutrient and protein energy malnutrition outcomes in a weight loss surgery population</td>
<td></td>
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<tr>
<td><strong>Cassie Hoole</strong></td>
<td>Evaluation of the impact of the Nutrition Monitoring and Action Form on nutritional intake and care practices</td>
<td></td>
</tr>
<tr>
<td><strong>Christine Eadeh</strong></td>
<td>Evaluation of Patient outcomes from the Dietitian First Gastroenterology Clinic</td>
<td></td>
</tr>
<tr>
<td><strong>Cindy Jennings</strong></td>
<td>Validity of the FIM in determining risk of malnutrition and nutritional decline during inpatient rehabilitation admission</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Blake</strong></td>
<td>Nutrition outcomes and toxicities from tomotherapy in head and neck cancer patients</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Blake</strong></td>
<td>Enteral Nutrition outcomes and toxicities from tomotherapy in head and neck cancer patients</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Blake</strong></td>
<td>Cost effectiveness of Dietitian-led PEG service</td>
<td></td>
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<tr>
<td><strong>Claire Blake</strong></td>
<td>Evaluation of pre-treatment model of care in patients with head and neck cancer</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Blake</strong></td>
<td>Implementation of patient-led malnutrition screening in the cancer care ambulatory setting</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Blake, Emma Osland</strong></td>
<td>Service evaluation of the management of complex nutrition patients (PEN PALS Project)</td>
<td></td>
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<tr>
<td><strong>Claire Dux</strong></td>
<td>Evaluation of the Transition Feeding Pathway on the Neurosurgery Ward</td>
<td></td>
</tr>
<tr>
<td><strong>Claire Dux</strong></td>
<td>Feed interruptions in ICU and impact on nutritional intake</td>
<td></td>
</tr>
<tr>
<td><strong>Denise Cruickshank</strong></td>
<td>Proportional Length of Stay Patterns in Queensland Health Facilities: review of QH Nutrition Standards for Meals and Menus</td>
<td></td>
</tr>
<tr>
<td><strong>Denise Cruickshank</strong></td>
<td>Review of the implementation of the Queensland Health Nutrition Standards for Meals and Menus across Health and Hospital Services</td>
<td></td>
</tr>
<tr>
<td><strong>Emma Osland</strong></td>
<td>Audit of micronutrient requesting practices at the RBWH</td>
<td></td>
</tr>
<tr>
<td><strong>Harriet Adsett</strong></td>
<td>Exploring patient perceptions and experiences of mealtimes and communal dining room in the GEM unit</td>
<td></td>
</tr>
<tr>
<td><strong>Hilary Powlesland</strong></td>
<td>Evaluation of the New Beginnings program</td>
<td></td>
</tr>
<tr>
<td><strong>Hilary Powlesland</strong></td>
<td>New Group Model of Care for low salt dietary education for Chronic Kidney Disease patients</td>
<td></td>
</tr>
<tr>
<td><strong>Jane Musial</strong></td>
<td>Evaluation of combined QUT-RBWH diabetes clinic – patient and service outcomes</td>
<td></td>
</tr>
<tr>
<td>RBWH Research Group/Department Lead Researchers</td>
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</tr>
<tr>
<td>Jen Ellick</td>
<td>Christine Eadeh, Michaela Hatzirodios, Claire Dux, Merrilyn Banks, Adrienne Young</td>
<td>Evaluation of the implementation of Delegate electronic patient meal management system</td>
</tr>
<tr>
<td>Joanne Hiatt</td>
<td>Teresa Brown, Merrilyn Banks, Judy Bauer (UQ)</td>
<td>Patient Experience of Nutrition Care across three treatment modalities for the management of head and neck cancer</td>
</tr>
<tr>
<td>Kate Morgan</td>
<td>Adrienne Young, Susan de Jersey, Belinda Mason</td>
<td>Evaluation of nutrition and dietetics services to in-centre haemodialysis patients</td>
</tr>
<tr>
<td>Lynda Ross</td>
<td>Paula MacDermott, Chris Chapman-Kiddell, Anita Pelecanos (QIMR), Graham Radford-Smith (Gastroenterology), Teri Green (QUT), Andrew Wong (Neurology)</td>
<td>Is there any correlation between dietary patterns in Inflammatory Bowel Disorder and genetics pre-diagnosis?</td>
</tr>
<tr>
<td>Margot Leeson-Smith</td>
<td>Adrienne Young, Rebecca Smith (TPCH) Juliette Mahero (TPCH), Chloe Jarvis (Redcliffe), Stacey O’Donnell (Caboolture), Anna Farrell (Speech Pathology), Teri Green (QUT), Andrew Wong (Neurology)</td>
<td>Implementation evaluation of an acute stroke nutrition support pathway across Metro North HHS</td>
</tr>
<tr>
<td>Robin Hay</td>
<td></td>
<td>Evaluation of Healthy Eating and Lifestyle Program (HELP) telehealth clinic</td>
</tr>
<tr>
<td>Samantha Olenski</td>
<td>Adrienne Young, Ingrid Hickman (PAH), Shelley Wilkinson (Mater)</td>
<td>Translating research into practice – a training needs assessment of Queensland dietitians</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrill Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Does early proactive enteral nutrition improve outcomes post allogeneic stem cell transplantation – a randomized comparison to standard care</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrill Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Investigating the effect of enteral and parenteral nutrition on the gastrointestinal microbiome post allogeneic transplantation</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrill Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Staff perceptions, barriers and enablers to enteral feeding during allogeneic stem cell transplantation</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrill Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Nutrition support during allogeneic transplantation in Australian adult bone marrow transplantation units</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Madison Jefferis (UQ), Cameron Curley (Cancer Care), Teresa Brown, Judy Bauer (UQ)</td>
<td>Investigating the effect of malnutrition on clinical outcomes post allogeneic stem cell transplantation</td>
</tr>
<tr>
<td>Siobhan Wallin</td>
<td>Carrie-Anne Lewis, Adrienne Young, Marzia Bell (QUT)</td>
<td>Pre-operative lifestyle intervention for patients undergoing bariatric surgery</td>
</tr>
<tr>
<td>Susan de Jersey</td>
<td>Leonie Callaway (UQ, WNBS), Lynda Ross (Griffith Uni), Taylor Guthrie, 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)</td>
<td>Evaluation of workforce training to support Healthy Pregnancy Healthy Baby</td>
</tr>
<tr>
<td>Susan de Jersey</td>
<td>Leonie Callaway (UQ, WNBS), Taylor Guthrie, Jeanette Tyler (Women’s and Newborn), Nickie Moreton (Women’s and Newborn), Karen New (UQ, Women’s and Newborn)</td>
<td>Efficacy of a low intensity consumer held pregnancy weight monitoring tool to prevent excess gestational weight gain</td>
</tr>
<tr>
<td>Susan de Jersey</td>
<td>Elizabeth Eakin (UQ, SPH), Shelley Wilkinson (Mater), Tracy Comans (CAHR), Leonie Callaway (UQ, WNBS), Claire Gardiner, Hilary Powlesland, Taylor Guthrie, Angela Chang (CAHR)</td>
<td>Implementation evaluation of a telephone-delivered dietetic model of care for overweight pregnant women</td>
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<tr>
<td>Susan de Jersey</td>
<td>Kimberley Mallan (ACU), Lynne Daniels (QUT), Rebecca Byrne (QUT)</td>
<td>New Beginnings Healthy Mothers and Babies Study: long-term Follow-up</td>
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<tr>
<td>Susan de Jersey</td>
<td>Natasha Lorenzen, Taylor Guthrie</td>
<td>Gestational Diabetes Service Nutrition Practice Guidelines and Outcomes clinical audit</td>
</tr>
<tr>
<td>Teresa Brown</td>
<td>Aaron Chan (UQ), Kathleen Dwyer, Merrilyn Banks, Brett Hughes (Cancer Care), Judy Bauer (UQ), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Jane Crombie (Speech Path), Ann-Louise Spurgin (Speech Path)</td>
<td>Revalidation of swallow and nutrition guidelines in tomotherapy</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ray Chan (PAH), <strong>Angela Byrnes, Rebecca Fichera</strong>, Alex Molassisiotis (Hong Kong), Patsy Yates (QUT), Gillian Nasato (Cancer Care), Elise Button (Cancer Care), Andrea Marshall (Griffith), Liz Isenring (Bond University), David Wyld (Cancer Care), Melissa Eastgate (Cancer Care), Nicole Gavin (Cancer Care)</td>
<td>A patient-family-centred intervention to promote nutrition in advanced cancer patients: a pilot randomised controlled trial</td>
</tr>
<tr>
<td>Louise Cooney (PAH), Louise Elvin-Walsh (PAH), <strong>Eliza Kern, Suzie Ahern</strong>, David Smith (QIMR), Liz Kenny (Cancer Care), Brett Hughes (Cancer Care), Sandro Porceddu (PAH), Ingrid Hickman (PAH), Bena Cartmill (PAH)</td>
<td>Comparison of nutrition and clinical outcomes in H&amp;N cancer patients following reactive and proactive nutrition support approaches</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
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<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
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<tbody>
<tr>
<td><strong>Alvin Wong</strong> (UQ)</td>
<td><strong>Merrilyn Banks</strong>, Judy Bauer (UQ)</td>
<td>Cost effectiveness of nutrition support services</td>
</tr>
<tr>
<td><strong>Alison Mudge</strong> (IMS)</td>
<td><strong>Merrilyn Banks</strong>, Adrian Barnett (QUT), Irene Blackberry (Latrobe), Ann Chang (QUT), Nick Graves (QUT), Ruth Hubbard (UQ), Sharon Inouye (Harvard), Sue Kurle (Uni of Sydney), Kwan Lim (Uni of Melbourne), Prue McRae (IMS), Nancye Peel (UQ), <strong>Adrienne Young</strong></td>
<td>CHERISH Collaborative for Hospitalised Elders: reducing the Impact of Stays in Hospital</td>
</tr>
<tr>
<td><strong>Alison Mudge</strong> (IMS)</td>
<td>Adrienne Young, Ruth Hubbard (UQ), Len Gray (UQ), Elizabeth Whiting (MNHH5), Elizabeth Beattie(QUT), Fried Graham (PAH), <strong>Merrilyn Banks</strong>, Prue McRae (IMS)</td>
<td>Older Person Friendly Hospital: understanding barriers and enablers for care in Brisbane hospitals</td>
</tr>
<tr>
<td><strong>Angela T Chang</strong> (CAHR)</td>
<td><strong>Susan de Jersey</strong>, Anna Farrell (Speech Pathology), Jenny Strong (Occupational Therapy), <strong>Adrienne Young</strong>, Gai Harrison (Social Work), Jennifer Paratz (Physiotherapy), Peter Buttrum (AHP), <strong>Merrilyn Banks</strong></td>
<td>Understanding research capacity and outputs in allied health workforce at RBWH</td>
</tr>
<tr>
<td><strong>Ashleigh Molenaar</strong> (CISS)</td>
<td>Zoe Davis (CISS), <strong>Merrilyn Banks</strong>, Adrienne Young, Sandra Capra (UQ), Olivia Wright (UQ)</td>
<td>Exploring obesity in the aged care setting</td>
</tr>
<tr>
<td><strong>Claire Nelson</strong> (QUT)</td>
<td><strong>Merrilyn Banks</strong>, Mary Hannan-Jones (QUT), Kathleen Findlayson</td>
<td>Nutritional status of community dwelling individuals with chronic leg wounds</td>
</tr>
<tr>
<td><strong>Dylan Flaws</strong> (Mental Health)</td>
<td>Alison Mudge (IMS), Gerard Byrne (Mental Health), Prue McRae (IMS), Megan Nitz (Mental Health), Conor O’Launigh (TPCH), Trevor Hollingsworth (Caboitoure), <strong>Adrienne Young</strong></td>
<td>Delirium in older psychiatry inpatients: protocol for an observational study</td>
</tr>
<tr>
<td><strong>Helen Barrett</strong> (UQ, Mater Health Services)</td>
<td>Marloes Dekker (UQ), H David McIntyre (Mater and UQ), Michael d’Emden, Leonie Callaway, <strong>Susan de Jersey</strong></td>
<td>Post prandial triglycerides in diabetes in pregnancy: a pilot study</td>
</tr>
<tr>
<td><strong>Jack Bell</strong> (TPCH)</td>
<td><strong>Adrienne Young</strong>, Merrilyn Banks, Tracy Comans (Centre for Allied Health, UQ), Jan Hill</td>
<td>The SIMPLE Approach: Systematised, Interdisciplinary Malnutrition Program Implementation and Evaluation</td>
</tr>
<tr>
<td><strong>Judy Bauer</strong> (UQ)</td>
<td>Nathan Baldwin (UQ), Merran Findlay (Sydney), <strong>Teresa Brown</strong></td>
<td>Evaluation of implementation, enablers and barriers for the Evidence-based guidelines for the nutritional management of adult patients with head and neck cancer</td>
</tr>
<tr>
<td><strong>Judy Bauer</strong> (UQ)</td>
<td><strong>Teresa Brown</strong>, <strong>Merrilyn Banks</strong>, Brett Hughes (Cancer Care), Charles Lin (Cancer care), Liz Kenny (Cancer Care), Louise Campbell (Qld PET Service)</td>
<td>Comparison of body composition methods in head and neck cancer patients undergoing chemoradiotherapy – PET-CT vs BIA</td>
</tr>
<tr>
<td><strong>Justin A Ezekowitz</strong> (University of Alberta)</td>
<td>John Atherton (Cardiology), <strong>Kate Morgan</strong>, Lynda Ross (Griffith), <strong>Belinda Mason</strong></td>
<td>SODIUM-HF (Study of Dietary Intervention Under 100 MMOL in Heart Failure)</td>
</tr>
</tbody>
</table>
## 2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katrina Ridout (QUT)</td>
<td><strong>Susan de Jersey</strong>, Danielle Gallegos (QUT), Adrian Barnett (QUT)</td>
<td>Understanding and improving pregnant women’s participation in government funded prenatal nutrition and lifestyle intervention programs</td>
</tr>
<tr>
<td>Leah Gramlich (University of Alberta), Merran Findlay (RPAH), Liz Isenring (Bond Uni), Judy Bauer (UQ)</td>
<td><strong>Merrilyn Banks</strong>, Joanne Hiatt, Siobhan Wallin</td>
<td>International Audit of Nutrition Care in Patients with FORegut TuMors (INFORM)</td>
</tr>
<tr>
<td>Loris Pironi (Home Artificial Nutrition Group, ESPEN)</td>
<td><strong>Emma Osland</strong></td>
<td>International benchmarking of Home Parenteral Nutrition service provision and validation of ESPEN chronic intestinal failure classifications</td>
</tr>
<tr>
<td>Lynda Ross (Griffith)</td>
<td><strong>Robin Hay, Angela Byrnes</strong>, Keanne Langston (Griffith)</td>
<td>Healthy Eating and Lifestyle Program (HELP) intervention evaluation and follow up</td>
</tr>
<tr>
<td>Melissa Eastgate (Cancer Care)</td>
<td>Shu Fen Lee (Cancer Care), David Wyld (Cancer Care), <strong>Teresa Brown</strong></td>
<td>Patient perceptions of diet and cancer – survey of cancer care patients</td>
</tr>
<tr>
<td>Michelle Palmer (MSHHS)</td>
<td>Helen Porteous (MSHHS), <strong>Susan de Jersey</strong></td>
<td>Attendance rates and demographic descriptors of obese women referred to the dietitian for weight management advice during pregnancy</td>
</tr>
<tr>
<td>Nerida Hart (QUT)</td>
<td>Mary Hannan-Jones (QUT), <strong>Merrilyn Banks</strong></td>
<td>What makes a quality foodservice system?</td>
</tr>
<tr>
<td>Nicole Gavin (Cancer Care)</td>
<td>Glen Kennedy (Cancer Care), David Patterson (Infectious Diseases), Claire Rickard (Griffith Uni), <strong>Sarah Andersen</strong>, Elise Button (Cancer Care), Rebecca Lippiatt (Cancer Care)</td>
<td>Exploring changes in gastrointestinal tract microbiome and their influence on mucosal barrier injury laboratory confirmed bloodstream infection in patients diagnosed with high risk features of acute myeloid leukaemia</td>
</tr>
<tr>
<td>Nicole Gavin (Cancer Care)</td>
<td>Glen Kennedy (Cancer Care), Claire Rickard (Griffith Uni), Patrick Harris (UQ), <strong>Sarah Andersen</strong>, Elise Button (Cancer Care), Rebecca Lippiatt (Cancer Care)</td>
<td>Improving central-line associated bloodstream infection diagnosis in malignant haematology patients with parenteral nutrition (Improving CLABSI Trial)</td>
</tr>
<tr>
<td>Nicole Kiss (Deakin University)</td>
<td>Anna Boltong (Cancer Council), Merran Findlay (RPA), Belinda Steer (Peter mac), Jenelle Loeliger (Peter Mac), <strong>Teresa Brown</strong>, Liz Isenring (Bond), Judy Bauer (UQ)</td>
<td>Australian cancer clinician’s awareness, perceptions and practices regarding to cancer-related malnutrition and sarcopenia</td>
</tr>
<tr>
<td>Nina Melloncelli (SCHHS, QUT)</td>
<td><strong>Susan de Jersey</strong>, Adrian Barnett (QUT)</td>
<td>Evaluation of a dietitian-led model of care in low risk gestational diabetes pregnancies</td>
</tr>
<tr>
<td>Nina Melloncelli (SCHHS, QUT)</td>
<td><strong>Susan de Jersey</strong>, Adrian Barnett (QUT)</td>
<td>Examining the management of gestational diabetes mellitus</td>
</tr>
<tr>
<td>Priya Cherian (Radiology)</td>
<td>Claire Blake, Mark Appleyard (Gastro), Nigel Mott (DMI), David Smith (QIMR)</td>
<td>Radiologically inserted gastrostomy (RIG) an Interventional Radiology Procedure that promotes high value healthcare</td>
</tr>
<tr>
<td>Quoc Qong Tran (QUT)</td>
<td>Danielle Gallegos (QUT), <strong>Merrilyn Banks</strong>, Mary Hannan-Jones (QUT)</td>
<td>Nutritional status of patients in Vietnamese hospitals</td>
</tr>
<tr>
<td>Samantha Olenski (IMS)</td>
<td>Alison Mudge (IMS), <strong>Adrienne Young</strong>, Prue McRae (IMS), Elise Treleaven (IMS), Kimberley Mallan (ACU), Zoe Walsh (CIS), Jill Ross (CIS), Alanna Geary (Nursing and Midwifery)</td>
<td>Developing and validating a novel survey to identify barriers and enablers to improving nutrition care in acute and subacute inpatient settings</td>
</tr>
<tr>
<td>Shelley Roberts (Griffith)</td>
<td>Andrea Marshall (Griffith), <strong>Merrilyn Banks</strong>, Alan Spencer (GCUH), Zane Hopper (GCUH), <strong>Adrienne Young</strong>, Ruben Gonzales (Griffith), Wendy Chaboyer (Griffith)</td>
<td>Using technology to engage patients in their nutrition care: a pilot study</td>
</tr>
</tbody>
</table>
## 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young</td>
<td>Outstanding Leadership in Research, Learning and Innovation</td>
<td>CAHRLI, 20th June 2018</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Health Practitioner Researcher of the Year</td>
<td>RBWH Research Symposium, 11-13th September 2018</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>2019 Royal Alumni Research Encouragement Award</td>
<td>2019 RBWH and RBWH Foundation Grant Awards Ceremony</td>
</tr>
<tr>
<td>Adrienne Young, Merrilyn Banks, Alison Mudge (IMS)</td>
<td>Highly Commended, Complex Health Challenges</td>
<td>MNHHS Research Excellence Awards, 22nd May 2018</td>
</tr>
<tr>
<td>Carrie-Anne Lewis</td>
<td>Jamieson Best Paper Award, Integrated Health</td>
<td>Australian and New Zealand Metabolic and Obesity Surgical Society, 6-7 September 2018</td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Leadership in Education</td>
<td>CAHRLI, 20th June 2018</td>
</tr>
<tr>
<td>Hilary Powlesland</td>
<td>Best New Presenter</td>
<td>AH-TRIP 'My Translation Rules' Research Translation Awards</td>
</tr>
<tr>
<td>Jack Bell (TPCH), Adrienne Young, Merrilyn Banks, Jan Hill, Rhiannon Barnes, Tracy Comans</td>
<td>Highly Commended, Health Services and Implementation</td>
<td>MNHHS Research Excellence Awards, 22nd May 2018</td>
</tr>
<tr>
<td>Jane Musial</td>
<td>Winner – Fostering Innovation Award</td>
<td>2018 RBWH QuARRIES Award</td>
</tr>
<tr>
<td>Kylie Matthews</td>
<td>Dietitians Association of Australia External Conference Research Prize</td>
<td>Australia and New Zealand Academy for Eating Disorders, 2-4 August 2018</td>
</tr>
<tr>
<td>Lynda Ross</td>
<td>Excellence in Publication Award for Development and Evaluation of a Scored Sodium Questionnaire-Screening Form for Kidney Disease Patients</td>
<td>Menzies Health Institute Queensland, September 2018</td>
</tr>
<tr>
<td>Shu Fen Lee, Melissa Eastgate, David Wyld, Teresa Brown</td>
<td>Best poster</td>
<td>2nd Victorian Cancer Survivorship Conference, 8-9th February, Melbourne</td>
</tr>
<tr>
<td>Susan de Jersey, Jeanette Tyler (WNBS), Taylor Guthrie, Karen New (UQ), Lynne Beutow (WNBS), Clare Byrne, Hilary Powlesland, Marie Greco</td>
<td>Overall Customer Focus Award</td>
<td>2018 RBWH QuARRIES Award</td>
</tr>
<tr>
<td>Susan de Jersey, Taylor Guthrie</td>
<td>Best Allied Health Poster</td>
<td>Australasian Diabetes in Pregnancy Society Conference, 24-26 August 2018</td>
</tr>
</tbody>
</table>
## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young, Ingrid Hickman (PAH), Shelley Wilkinson (Mater)</td>
<td>Nutrition and Dietetics</td>
<td>Needs assessment of knowledge translation (KT) training and support needs of Queensland dietitians</td>
<td>DNSC</td>
<td>$7,920</td>
<td>$7,920 (2018)</td>
</tr>
<tr>
<td>Adrienne Young, Merrilyn Banks, Jan Hill, Jack Bell, Tracy Comans, Rhiannon Barnes</td>
<td>Nutrition and Dietetics</td>
<td>Malnutrition Models of Care</td>
<td>AusHSI</td>
<td>$11,333</td>
<td>$34,000 (2017-2018)</td>
</tr>
<tr>
<td>Angela Byrnes</td>
<td>Nutrition and Dietetics, Internal Medicine Research Unit</td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: a multiphase, Action Research study</td>
<td>RBWH Scholarship (top-up)</td>
<td>$6,000</td>
<td>$6,000 (2018)</td>
</tr>
<tr>
<td>Carrie-Anne Lewis</td>
<td>Nutrition and Dietetics</td>
<td>Micronutrient and protein energy malnutrition outcomes in a weight loss surgery population</td>
<td>RBWH Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
<tr>
<td>Carrie-Anne Lewis, Leonie Naumann (Physiotherapy)</td>
<td>Nutrition and Dietetics, Physiotherapy</td>
<td>Measuring body composition to determine prevalence of malnutrition and lymphoedema in allied health research studies</td>
<td>RBWH PPTF Research and Training Capital Funding Grant</td>
<td>$21,053</td>
<td>$21,053 (2018)</td>
</tr>
<tr>
<td>Christine Eadeh, Claire Dux, Nerida – Hart</td>
<td>Nutrition and Dietetics, Patient Food Services</td>
<td>Improving access to meals outside of hours: a technology driven solution</td>
<td>CAHRLI</td>
<td>$9,639</td>
<td>$9,639 (2018)</td>
</tr>
<tr>
<td>Claire Blake, Ally di Bella, Teresa Brown, Adrienne Young, Jenni Leutenegger (Cancer Care), David Wyld (Cancer Care), Jill Campbell (Nursing and Midwifery), Judith Eddy (Womens), Andrea Garratt, Kerrie Coleman (Nursing and Midwifery), Maree Grier (Psychology), Cara Masterson (Physiotherapy), Fiona Coyer (QUT), Barbara Ikin (Women’s and Newborns), Damien McDermid, Kathryn Hurree (Womens and Newborns), Anita Pelacanos (QIMR)</td>
<td>Nutrition and Dietetics; Cancer Care</td>
<td>Implementation of patient-led malnutrition screening in the cancer care ambulatory setting</td>
<td>RBWH Foundation Diamond Grant</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Jane Musial</td>
<td>Nutrition and Dietetics</td>
<td>Implementation of insulin dose adjustment for dietitians</td>
<td>Diabetes Statewide Clinical network</td>
<td>$33,265</td>
<td>$33,265 (2017-2018)</td>
</tr>
<tr>
<td>Margot Leeson-Smith, Adrienne Young, Jack Bell (TPCH), Theresa Green (Nursing, QUT), Rebecca Moore (TPCH), Stacey O’Donnell (Cabbootlure), Chloe Jarvis (Redcliffe), Juliette Maher (TPCH), Andrew Wong (Neurology)</td>
<td>Nutrition and Dietetics, Nursing, Neurology</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery: a feasibility study</td>
<td>RBWH Foundation</td>
<td>$39,998</td>
<td>$39,998 (2018)</td>
</tr>
<tr>
<td>Nina Meloncelli (SCHHS, QUT), Susan de Jersey, Adrian Barnett (QUT), Rachel Hayes (SCHHS), Elise Gilberston (SCHHS), Michelle Mack (SCHHS), Rebekah Shakshovskoy (SCHHS), Sophie Poulter (SCHHS)</td>
<td>Nutrition and Dietetics Researchers</td>
<td>Evaluation of a dietitian-led model of care in low risk gestational diabetes pregnancies</td>
<td>Health Practitioners Research Scheme Grant</td>
<td>$14,818</td>
<td>$29,636 (2018-2019)</td>
</tr>
</tbody>
</table>
Ray Chan (Cancer Care), Alex Molassiotis (Hong Kong), Patsy Yates (QUT), Gillian Nasato (Cancer Care), Teresa Brown, Elise Button (Cancer Care), Andrea Marshall (Griffith), Liz Isenring (Bond University), David Wyld (Cancer Care), Melissa Eastgate (Cancer Care), Nicole Gavin (Cancer Care)


Samantha Olenski (IMRU), Alison Mudge (IMRU), Adrienne Young, Prue McRae, Kimberley Mallan (ACU), Zoe Walsh (CISS), Jillan Ross (CISS), Alanna Geary (Nursing and Midwifery)

Internal Medicine Research Unit; Nutrition and Dietetics

Developing and validating a novel survey to identify barriers and enablers to improving nutrition care in acute and subacute inpatient settings

RBWH Foundation

$32,000

$32,000 (2018)

Sarah Andersen

Nutrition and Dietetics

Does early proactive enteral nutrition improve outcomes post allogeneic stem cell transplantation - A randomized comparison to standard care

RBWH Scholarship

$36,864

$36,864 (2018)

Sarah Andersen

Nutrition and Dietetics

Energy expenditure in patients undergoing allogeneic stem cell transplant: are we feeding them enough?

RBWH PPTF Research and Training Capital Funding Grant

$39,167

$39,167 (2018)

Susan de Jersey, Elizabeth Eakin, Shelley Wilkinson, Tracy Comans, Leonie Callaway, Claire Gardiner

Nutrition and Dietetics, Obstetric Medicine, Centre for Allied Health Research

Implementation evaluation of a telephone-delivered dietetic model of care for overweight pregnant women

RBWH Foundation

$39,024

$39,024 (2017-2018)

2018 Research Publications

Journal Articles:


17. **Matthews KL**, Palmer MA, Capra SM. The accuracy and consistency of nutrition care process terminology use in cases of refeeding syndrome. Nutrition and Dietetics. 2018;75(3):331-6


30. **Young AM, Banks MD**, Mudge AM. Improving nutrition care and intake for older hospital patients through system-level dietary and mealtime interventions. Clinical Nutrition ESPEN. 2018;24:140-7


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:
1. Bell M, Lewis CA, Wallin S, Young A. Bariatric surgery patients’ view on pre-operative lifestyle education. Dietitians Association of Australia. May 2018
4. De Jersey S, Guthrie T, Callaway L, Tyler J, New K. Successful changes to practice following a dietetic lead service wide implementation strategy supporting health weight gain in pregnancy. Dietitians Association of Australia. May 2018
9. Kukulies D, Gallegos D, De Jersey S, Tran CQ, Phan THT, Vo DT, Do, DNT, Hannan-Jones M. Excess gestational weight gain is an issue in Ho Chi Minh City, Viet Nam. The 7th Asian Congress of Dietetics. Hung Hom, Hong Kong, July 2018
13. Matthews K, Hill J, Jeffrey S, Patterson S, Davis A, Ward W, Palmer M, Capra S. A higher energy refeeding protocol does not increase adverse outcomes in adult patients with eating disorders. Dietitians Association of Australia. May 2018
15. Meloncelli N, Barnett A, Pelly F, De Jersey SJ. Task and role perceptions of GDM Management as reported by multidisciplinary team members in Australia. Dietitians Association of Australia. May 2018
19. Powlesland H, Yin Ling W, Tyler J, New K, De Jersey S. Staff attitudes and practices to support healthy pregnancy weight gain following the implementation of service-wide education and routine weight tracking. Dietitians Association of Australia. May 2018
Poster Presentations:


2. **Barrett HL, Dekker Nitert M, De Jersey SJ, Callaway LK, D’Emden M, McIntyre HD.** Maternal postprandial triglycerides following high and low fat meals in the home setting. American Diabetes Association’s 78th Scientific Sessions, June 22-26, 2018 Orlando, Florida USA


5. **Cruickshank D, Juffs P.** Comparing IDDSI to current clinically accepted testing methods. Dietitians Association of Australia. May 2018


7. **Hatzirodos M, Ellison N, Eadeh C, Dux C.** Restoring dignity and quality to texture modified diets through moulded meals. Dietitians Association of Australia. May 2018

8. **Lee SF, Eastgate M, Wylde D, Brown T.** Dietary patterns and attitudes in cancer survivors. 2nd Victorian Cancer Survivorship Conference, February 2018


11. **Morgan K, Young A.** Perceptions of patients on haemodialysis: satisfaction with dietetic services and barriers to engagement. Dietitians Association of Australia. May 2018

12. **Worrall J, Byrnes A, Banks M, Mudge A, Young A, Bauer J.** Postoperative oral intake of older (≥65 years) general surgical patients and factors associated with inadequate intake on postoperative day 2. Dietitians Association of Australia. May 2018

13. **Young A, Banks M, Kwek T, Mudge A.** Improving nutritional intake and care for older inpatients: a ten-year journey of quality improvement and research in practice. Annual Scientific Meeting of the American Geriatrics Society, May 2018


Other Communications and Outputs:

**Adrienne Young** Is there a SIMPLE solution to hospital malnutrition? The Health Advocate p40-41, October 2018

**Adrienne Young** Older people in hospital are having their cake and eating it too: a 10-year journey to improve nutrition at the Royal Brisbane and Women’s Hospital. The Australian Hospital Healthcare Bulletin p56-7, Winter 2018

**Susan de Jersey** How to Treat: gestational diabetes mellitus. Australian Doctor, p17-24, June 22, 2018

**Angela Byrnes.** Implementation and process evaluating using an implementation framework. Allied Health Translating Research into Practice website https://www.tri.edu.au/online-pd-suite


Functional independence, occupational performance and patient centred practice are core concepts of Occupational Therapy (OT) used daily to improve our patients’ care, their hospital journey and health outcomes. OT services at RBWH strive to apply research evidence in practice every day to meet best care, maximise outcomes and help our patients’ return to their life roles.

2018 was an exciting year for RBWH OT with growth in research activity and outcomes that have enhanced occupational performance and participation of our patients’ daily lives. Our research activity and related benefits have extended across multiple areas of the hospital’s clinical services including trauma, burns, orthopaedics, hands, neurology, chronic pain and rehabilitation services.

Research themes and concepts explored in 2018 have been broad ranging and include community participation and re-engagement, application of treatments to new diagnostic cohorts and use of technology enhanced modalities to improve occupational performance and OT care delivery. These themes are demonstrated in research topics such as the effectiveness of electrical stimulation to improve hand function of people with Friedreich's Ataxia neurological disorder, virtual reality to reduce pain during burn wound dressing changes and mobile technology apps to assist people with chronic pain to better self-manage their daily activities.

Expanding on foundations of previous years, building of our research capacity continues to be a key achievement. In 2018, the vision for best practice evidence “provided at the bedside” has translated to:

- increased successful competitive grant funding
- national and international presence of Occupational Therapy research
- increased research collaborations, strengthened partner links and new research partners
- increased uptake of research engagement across novice and experienced clinicians and
- meaningful impacts on patient care.

Highlights of 2018:

- 2018 Metro North Research Excellence Rising Star Award to Dr Nicole Andrews
- commencement of 6 OT staff in their research higher degree studies
- increasing trend in application successes – 12 new grants awarded
- 35% growth in successful grant funding – $164,130
- six national conference presentations in burns scar management, outcome measurements, pressure therapy and e-stim use in Friedreich Ataxia
- four international conference presentations with three as invited guest speakers:
  – Nicole Andrews, Boston, USA: Overactivity in pain
  – Nicole Andrews, Sydney, Australia: Activity pacing using a mobile health platform
  – Andrea McKittrick, New Delhi, India: Burns remedial make-up
  – Andrea McKittrick, Sydney, Australia: Critical care neuropathy.
- new collaboration with Herston Biofabrication Institute.

Going forward, we continue to work towards our research investment translating in Occupational Therapy practice to benefit our patients’ care helping reach their goals and re-engage with life beyond hospital.
## Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g., PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Mc Kittrick</td>
<td>Doctor of Philosophy UQ (2018-2023)</td>
<td></td>
<td>Outcome measures for hand burn injuries</td>
<td>Louise Gustaffson, Jenny Strong</td>
</tr>
<tr>
<td>Cate Sinclair</td>
<td>PhD UQ (2015-2018)</td>
<td></td>
<td>Pain management for children and adolescents attending a tertiary pain centre</td>
<td>Pamela Meredith, Jenny Strong</td>
</tr>
<tr>
<td>Erin Molloy</td>
<td>Master of Philosophy UQ (2018-2020)</td>
<td></td>
<td>Sensory sensitivity and adherence with compression garments after burn injuries</td>
<td>Jenny Strong, Pam Meredith, Paul Gray</td>
</tr>
<tr>
<td>Genevieve O’Donoghue</td>
<td>PhD CQU (2018-2020)</td>
<td></td>
<td>Couples, attachment and chronic pain</td>
<td>Pamela Meredith, Jenny Strong, Nicole Andrews</td>
</tr>
<tr>
<td>Grace Brandjerporn</td>
<td>PhD UQ (2016-2019)</td>
<td></td>
<td>Pre-natal and perinatal attachment and child development</td>
<td>Pamela Meredith, Jenny Strong</td>
</tr>
</tbody>
</table>
2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews</td>
<td>Postdoctoral Research Fellow RBWH Postdoctoral Research Fellow</td>
<td>RECOVER Injury Research Centre Towards understanding how much activity is too much for individuals with chronic pain</td>
<td>The University of Queensland (2018-2019)</td>
</tr>
<tr>
<td>Jenny Strong</td>
<td>Emeritus Professor</td>
<td>School of Health and Rehabilitation Sciences</td>
<td>The University of Queensland (2016 ongoing)</td>
</tr>
<tr>
<td></td>
<td>Adjunct Professor</td>
<td>School of Health, Medical and Applied Sciences</td>
<td>Central Queensland University (2017 onwards)</td>
</tr>
<tr>
<td>Michelle Donovan</td>
<td>Honorary Associate lecturer</td>
<td>School of Health and Rehabilitation Sciences</td>
<td>The University of Queensland (2017-2020)</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Mc Kittrick</td>
<td>Sue Laracy, Jenny Strong, Michael Rudd (Burns)</td>
<td>Royal Brisbane and Women’s Hospital Occupational Therapy auditing framework for identifying improvements to acute adult burns care</td>
</tr>
<tr>
<td>Andrea Mc Kittrick</td>
<td>Amber Jones, Sue Laracy, Jenny Strong, Andre Baeur (Psychology)</td>
<td>“Scar Wars” – the effective use of cinemagraphic remedial make up by Occupational Therapy to conceal disfiguring scars</td>
</tr>
<tr>
<td>Celeste Glasgow</td>
<td>Sue Laracy, Cherie Aceto</td>
<td>What is the most effective orthosis for improving PIP joint extension following hand trauma? A RCT</td>
</tr>
<tr>
<td>Celeste Glasgow</td>
<td>Sue Laracy, Kristin Kirwan</td>
<td>Occupational Therapy Hand Unit Consumer engagement project</td>
</tr>
<tr>
<td>Celeste Glasgow</td>
<td>Sue Laracy, Kathy Green (Logan), Ruth Cox (QE2), Leo Ross (QE 2)</td>
<td>Evaluation of the Primary Contact Occupational Therapy Hand (PCOTH) Clinical Outcomes; non-carpal tunnel syndrome (CTS) diagnoses</td>
</tr>
<tr>
<td>Erin Molloy</td>
<td>Jenny Strong, Pamela Meredith (Central Queensland University), Paul Gray (Pain Centre)</td>
<td>Is sensory sensitivity a factor in non-adherence in compression garment wear post burn?</td>
</tr>
<tr>
<td>Erin Molloy</td>
<td>Amber Jones, Sue Laracy, Jenny Strong, Paul Gray, (Pain Centre)</td>
<td>The use of Immersive Virtual Reality in Occupational Therapy during burn wound care procedures</td>
</tr>
<tr>
<td>Kaitlyn Spalding</td>
<td>Kristin Kirwan, Angela Chang (CAHR)</td>
<td>Positioning of the lower limb for the prevention and management of pressure injuries: a review of current practice</td>
</tr>
<tr>
<td>Kristin Kirwan</td>
<td>John Fraser (TPCH), Chris Anstey (TPCH)</td>
<td>Determining the pressure redistribution properties of selected commercial and custom-made products to reduce the incidence of pressure injury development on the head</td>
</tr>
<tr>
<td>Nicole Andrews</td>
<td>Marlienv Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Towards understanding how much is too much for individuals with chronic pain</td>
</tr>
<tr>
<td>Nicole Andrews</td>
<td>Belinda Long, Jenny Strong, Sue Laracy</td>
<td>Evaluation of occupational therapy interventions within the orthopaedic physiotherapy screening clinic</td>
</tr>
<tr>
<td>Nicole Andrews</td>
<td>Olivia Zheng (Trauma Service), Jodie Ross, (Trauma Service), Venerina Johnston (UQ), Elise Gane (UQ), Esther Smits (UQ), Charlotte Brakenridge (UQ), Paul Gray, (Professor Tess Crmond Multidisciplinary Pain Centre), Michael Rudd (Trauma Service)</td>
<td>An investigation of the prevalence, impact, and management of chronic pain post trauma at a tertiary public hospital</td>
</tr>
<tr>
<td>Nicole Coghlan</td>
<td>Jenny Strong, Jodie Copley (UQ), Tammy Aplin (UQ), Sue Laracy</td>
<td>Patient experiences of wearing compression garments post burn injury</td>
</tr>
<tr>
<td>Robyn Scheer</td>
<td>Nicole Andrews, Erin Molloy</td>
<td>The effect of limb position on leg circumference measurements in patients diagnosed with lower limb lymphoedema</td>
</tr>
<tr>
<td>Robyn Scheer</td>
<td></td>
<td>The Lymphoedema Arm Measurement Study – Winter vs Summer</td>
</tr>
<tr>
<td>Sue Laracy</td>
<td>Cate Fitzgerald (QHealth), Merryl Turpin (UQ), Beverley Lewis</td>
<td>Supporting the transition to practice of new graduate occupational therapist using a clinical education framework</td>
</tr>
<tr>
<td>Sue Laracy</td>
<td>Kristin Kirwan, Angela Chang (CAHR), Jenny Strong</td>
<td>Acute surgical business case 7-day service review</td>
</tr>
<tr>
<td>Tennille Rowland</td>
<td>Giovanna Tornatore, Beverley Lewis, Sue Laracy, Simon Finnigan (UQCCR)</td>
<td>Occupational therapy stroke audit: measuring compliance of occupational therapy practice with evidence-based guidelines</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlotte Brakenridge (UQ), Venerina Johnston (UQ), Esther Smits (UQ), Elise Gane (UQ)</td>
<td>Nicole Andrews</td>
<td>Impact of interventions on work-related outcomes for individuals with musculoskeletal injuries after road traffic crash: a systematic review protocol</td>
</tr>
<tr>
<td>Elise Gane (UQ), Venerina Johnston (UQ), Esther Smits (UQ), Charlotte Brakenridge (UQ)</td>
<td>Nicole Andrews</td>
<td>Exploring the perspectives of key stakeholders in return to work after road traffic crash</td>
</tr>
<tr>
<td>Esther Smits (UQ), Venerina Johnston (UQ), Charlotte Brakenridge (UQ), Elise Gane (UQ)</td>
<td>Nicole Andrews</td>
<td>Recovery following a road traffic crash – a Delphi study</td>
</tr>
<tr>
<td>Jessica Thackeray (UQ), Sophie Bowen (UQ), Cory Poll (UQ), Pamela Meredith (CQU)</td>
<td>Jenny Strong, Nicole Andrews</td>
<td>“Can Sensory- and Attachment-Informed approaches be used to modify perceptions of pain?”</td>
</tr>
<tr>
<td>Kirsten Cook (SCUH)</td>
<td>Simon Finnigan (UQCCR), Sue Laracy</td>
<td>Evaluation of the Primary Contact Occupational Therapy Hands Pathway in the Treatment of Carpal Tunnel Syndrome; State-wide</td>
</tr>
<tr>
<td>Louise Burgess (Bournemouth University, UK), Thomas Wainwright (Bournemouth University, UK)</td>
<td>Nicole Andrews</td>
<td>What is the evidence for occupational therapy interventions in general surgical pathways and do they have a role in ERAS pathways? A systematic review</td>
</tr>
<tr>
<td>Louise Corben (MCRI, Martin Delatycki (MCRI)</td>
<td>Tennille Rowland, Jenny Strong, John O’Sullivan (Neurology), Sue Laracy</td>
<td>Does functional electrical stimulation improve hand function and daily participation of individuals with Friedreich ataxia?</td>
</tr>
<tr>
<td>Lynn DeBar (Kaiser Permanente Centre for Health Research, Portland, USA), Meghan Mayhew, (Kaiser Permanente Centre for Health Research, Portland, USA)</td>
<td>Nicole Andrews</td>
<td>PPACT Administrative Supplement for Research on Sleep Disturbances and Impact on Chronic Pain</td>
</tr>
<tr>
<td>Shanithi Kanagarajah (Geriatrics, RBWH)</td>
<td>Sue Laracy, Kana Appadurai (Geriatrics), Kathleen Richter (Nursing), Gisela Brittain</td>
<td>Hospital Wide clinician led audit of patients requiring sub-acute care in a large tertiary hospital</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews</td>
<td>Rising Star Award</td>
<td>2018 Metro North Research Excellence Awards, 22 May 2018</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Mc Kittrick, Amber Jones, Andre Bauer (Psychology)</td>
<td>OT/Psychology</td>
<td>Scar Wars” – the effective use of cinemagraphic remedial make up to conceal disfiguring scars</td>
<td>CAHRLI Innovation Challenge 2017-2018</td>
<td>$10,000</td>
<td>$10,000 (2018)</td>
</tr>
<tr>
<td>Celeste Glasgow</td>
<td>OT</td>
<td>What is the most effective orthosis for improving functional outcomes for individuals with extension deficits of their proximal interphalangeal joint following hand trauma?</td>
<td>Occupational Therapy Australia Research Foundation</td>
<td>$4,000</td>
<td>$4,000 (2018)</td>
</tr>
<tr>
<td>Erin Molloy, Paul Gray (Pain Management), Amber Jones</td>
<td>OT/Pain</td>
<td>Immersive virtual reality in immersive wound care</td>
<td>CAHRLI Innovation Challenge 2017-2018</td>
<td>$2,000</td>
<td>$2,000 (2018)</td>
</tr>
<tr>
<td>Investigators (RBWH staff in bold)</td>
<td>RBWH Research Groups / Departments</td>
<td>Project Title</td>
<td>Granting Body</td>
<td>Amount in 2018</td>
<td>Total Amount (years)</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-----------------------------------</td>
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</tr>
<tr>
<td>Giovanna Tornatore</td>
<td>OT</td>
<td>Increasing Occupational Therapy intervention frequency and intensity of practice and patient engagement (FIPE) in stroke rehabilitation</td>
<td>CAHRLI pre-PhD/Pre-MPhil Scholarship Program</td>
<td>$13,943</td>
<td>$13,943 (2017-2018)</td>
</tr>
<tr>
<td>Kristin Kirwan</td>
<td>OT, ICU</td>
<td>Determining the pressure relieving properties of selected commercial and custom-made products to reduce the incidence of pressure injury development on the head</td>
<td>The Prince Charles Hospital Foundation</td>
<td>$6,000</td>
<td>$9,616 (2016-2018)</td>
</tr>
<tr>
<td>Nicole Andrews, Marlien Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Occupational Therapy, OPSC, and the Professor Tess Cr Bomb Multidisciplinary Pain Centre</td>
<td>The development and implementation of a mobile health platform to support activity pacing implementation in chronic pain</td>
<td>Metro North LINK funding scheme</td>
<td>$7,137</td>
<td>$60,000 (2017-2018)</td>
</tr>
<tr>
<td>Nicole Andrews, Marlien Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Occupational Therapy, OPSC, and the Professor Tess Cr Bomb Multidisciplinary Pain Centre</td>
<td>The development and implementation of a mobile health platform to support activity pacing implementation in chronic pain</td>
<td>RBWH Foundation Postdoctoral Fellowship</td>
<td>$50,000</td>
<td>$50,000 (2018)</td>
</tr>
<tr>
<td>Ruth Cox (QE2), Sue Laracy, Kathy Green (Ipswich), Leo Ross (QE2)</td>
<td>OT</td>
<td>Evaluation of the Primary Contact Occupational Therapy Hand (PCOTH) Clinic Clinical Outcomes – non Carpal Tunnel Syndrome (CTS) Diagnoses</td>
<td>Professional Innovators and Leaders in Occupational Therapy</td>
<td>$25,000</td>
<td>$25,000 (2017-2018)</td>
</tr>
<tr>
<td>Sarah O’Reilly</td>
<td>OT</td>
<td>The efficacy of stretch tape in reducing hypertrophic scarring after burn injury</td>
<td>CAHRLI pre-PhD/Pre-MPhil Scholarship Program</td>
<td>$10,959</td>
<td>$10,959 (2018)</td>
</tr>
<tr>
<td>Tennille Rowland, Louise Corben (Murdoch Children Research Institute MCRI), Jenny Strong, John O’Sullivan (Neurology), Martin Delatycki (MCRI), Sue Laracy</td>
<td>OT / Neurology</td>
<td>Does functional electrical stimulation improve hand function and daily participation of individuals with Friedreich ataxia?</td>
<td>RBWH Foundation</td>
<td>$16,627</td>
<td>$16,627 (2017-2018)</td>
</tr>
</tbody>
</table>

**2018 Research Publications**

**Journal Articles:**

5. Power S, Bogossian FE, Sussex R, & Strong, J. Examining the nexus of labour pain and culture using an applied social science framework. Examinando el nexo del dolor de parto y la cultura usando un marco de ciencia social aplicada revista Horizonte de Enfermeria. 2018;28 (2):53-78
Journal Articles: (cont)


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Andrews N. Overactivity in chronic pain: myth or reality? 17th World Congress on Pain, September 2018
2. Andrews N. The development and implementation of a mobile health platform to support activity pacing in chronic pain. Australian Pain Society 38th and New Zealand Pain Society Conjoint Annual Scientific Meeting, April 2018

Oral Presentations:
1. Donovan M, Tyack Z, Paratz J, Muller M. Interim pressure garment therapy: investigating low level pressure therapy for burns donor site support and scar reduction. Australian New Zealand Burns Association, Brisbane October 2018
3. McKittrick A, Gustafsson L, Strong J. A systematic review to investigate outcome tools currently used for patients who have sustained hand burn injuries and to map the psychometric properties of the outcome measures identified from the literature across the ICF, Australian New Zealand Burns Association, Brisbane October 2018
4. McKittrick A, Jones A, Laracy S, Strong J. The Effective use of Cinemagraphic Remedial Make Up by Occupational Therapy to Conceal Disfiguring Scars, ISBI New Delhi, December 2018
5. Rowland TJ, O’Sullivan JD, Delatycki MB, Strong J, Corbin LA. Electrical stimulation to improve upper limb function in people with Friedreich Ataxia. 13th Annual Friedreich Ataxia Scientific Symposium, Melbourne, 25 October 2018

Poster Presentations:
Physiotherapy

The Physiotherapy research program continued to be driven by the diverse range of services delivered to both inpatients and outpatients of the RBWH who often have physical impairments underlying their movement disorders. The Department encourages wide participation in research and quality improvement with the aim of enhancing clinical outcomes for clients though maximising the effectiveness and efficiency of physiotherapy services.

Clinical benefits of research:

The Physiotherapy department research program has a strong clinical focus, ensuring the effective translation of research into clinical practice for immediate benefit to clients.

Research highlights for 2018 include:

- A focus on incorporating technology to increase access to services and improve outcomes to a wide variety of clients with musculoskeletal conditions, burn injury and balance and mobility disorders using telehealth, mobile applications and 3-Dimensional motion analysis
- Continued research into advanced and extended scope of practice roles in primary contact musculoskeletal and vestibular physiotherapy clinics and medicines prescribing by emergency physiotherapy practitioners
- A wide variety of clinical research studies such as cutting edge critical care and burn injury projects.

Research Collaborations:

- The Physiotherapy Department continues to form strong research collaborations including continuation of existing Conjoint Research Fellow positions with Griffith University (Assoc Prof Jenny Paratz) and University of Queensland (Dr Shaun O’Leary). Furthermore, relationships and research collaborations have been newly formed with RECOVER Injury Research Centre and Queensland University of Technology.

Achievements:

2018 was another successful year for the Department of Physiotherapy with 23 peer reviewed publications, 13 national and international conference presentations and close to $200,000 in competitive grant funding. Five staff were currently completing research higher degrees with one staff member successfully attaining a PhD in 2018. The Orthopaedic Physiotherapy Screening Clinic research team led by Maree Raymer and Dr Shaun O’Leary received the Health Service Implementation Award at the Metro North 2018 Excellence in Research Awards, while the Spinal Physiotherapy Screening Clinic and Multidisciplinary Service was awarded the Allied Health Service Line Award at the 2018 QuARRIE awards.

2018 also saw the inaugural round of grants distributed through the Physiotherapy Research Fund with four grants totalling $50,000 awarded in a competitive peer reviewed research funding program. This funding program coincided with the implementation of a Research Coordinator role within the Physiotherapy Department jointly held by Dr Peter Window and Michelle Cottrell with the aim of involving a wider cross section of staff and clinical specialties in research and quality improvement.
## Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.) University</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ian Parker</td>
<td>PhD, ACU (2013-2019)</td>
<td>The Prevalence, Profile and Efficacy of conservative management for Hospital Ear Nose and Throat Category 2 and 3 wait list patients with vestibular dysfunction</td>
<td>Nancy Low Choy, Ann Rahman, Tracy Comans, David Goode</td>
</tr>
<tr>
<td>Jemima Boyd</td>
<td>MPhil, Griffith (2016-2018) Confirmed Dec 2018</td>
<td>Haemodynamic measurement in mobility post cardiac surgery</td>
<td>Jennifer Paratz, James Walsh</td>
</tr>
<tr>
<td>Lauren O’Connor</td>
<td>PhD, Griffith (2015-2018)</td>
<td>The effect of the Passy Muir valve on postural retraining</td>
<td>Jennifer Paratz, Norm Morris</td>
</tr>
<tr>
<td>Mark Cruickshank</td>
<td>PhD QUT (2017-2023)</td>
<td>An Evaluation of Physiotherapy Prescribing in the Emergency Department</td>
<td>Lisa Nissen, Greg Kyle</td>
</tr>
<tr>
<td>Michelle McGrath</td>
<td>MPhil, QUT (2014-2018) Confirmed July 2018</td>
<td>“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 writting and fidgeting in the normative infant population”</td>
<td>Ian Turner, Robyn Grote, Joe Young, Mark Pearcy</td>
</tr>
<tr>
<td>Olivia Galea</td>
<td>PhD UQ (2015-2018)</td>
<td>The role of cervical musculoskeletal impairment in concussion</td>
<td>Shaun O’Leary, Julia Treleven</td>
</tr>
<tr>
<td>Orlando Flores</td>
<td>PhD UQ (2014-2018)</td>
<td>Metabolism in Burns</td>
<td>Jennifer Paratz, Kellie Stockton, Zephanie Tyack</td>
</tr>
<tr>
<td>Rebecca Hardy</td>
<td>MPhil (2017-2019)</td>
<td>Physical activity post heart-lung transplantation</td>
<td>Norm Morris, Jennifer Paratz</td>
</tr>
<tr>
<td>Rebecca Kelly</td>
<td>MPhil, Griffith (2015-2019)</td>
<td>Factors predicting daily physical activity post heart transplantation</td>
<td>Jennifer Paratz, Norm Morris</td>
</tr>
</tbody>
</table>

## 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Paratz</td>
<td>Conjoint Principal Research Fellow</td>
<td>Multiple projects in the area of ICU and Burns</td>
<td>Griffith University (2014-2019)</td>
</tr>
<tr>
<td>Michelle Cottrell</td>
<td>RBWH Physiotherapy Research Coordinator</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Peter Window</td>
<td>RBWH Physiotherapy Research Coordinator</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Robyn Grote</td>
<td>Principal Research Fellow Qld Motion Analysis Centre, RBWH Adjunct Professor, Faculty of Health, QUT Honorary Senior Fellow, UQ Centre for Clinical Research</td>
<td>Projects in 3-dimensional motion analysis in newborns, and patients with severe burns, investigation of the use of 3D motion capture and virtual reality in a treatment for patients with trauma. 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</td>
<td>University of Queensland (2010 – current). Queensland University of Technology (2016 – current).</td>
</tr>
<tr>
<td>Shaun O’Leary</td>
<td>Conjoint Fellow</td>
<td>Multiple projects in the area of Musculoskeletal Physiotherapy and supervision of Honours, Masters and PHD students</td>
<td>University of Queensland (2016 – 2018)</td>
</tr>
</tbody>
</table>
## 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anita Plaza</td>
<td>Jennifer Paratz, Michelle Cottrell</td>
<td>Telehealth for the delivery of Physiotherapy exercise programs following burn injury</td>
</tr>
<tr>
<td>Emilie Amiss</td>
<td>Merinda Rhodes, Michelle Cottrell</td>
<td>Evaluation of a stepping strategy mobile application in cardiopulmonary rehabilitation: a prospective cohort study</td>
</tr>
<tr>
<td>Hildergard Reul Hirche</td>
<td>Jennifer Paratz, Sonia Sam</td>
<td>Risk factors in lymphoedema</td>
</tr>
<tr>
<td>Ian Parker</td>
<td>Greta Palmer (PAH), Lea Barnes (Logan), Tamsin Smith (GCUH.)</td>
<td>An evaluation of the Allied Health Specialist Clinics – Vestibular Rehabilitation Services</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Jason Roberts (UQ, Pharmacy), Michael Muller (Surgery), Kellie Stockton (LCCH), Rob Boots (Thoracic Medicine), Orlando Flores (UQ, Medicine)</td>
<td>Beta blocker therapy in burns: an RCT</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Jonny Younger (Cardiology), Sanjoy Paul (QIMR), Kellie Stockton (LCCH)</td>
<td>Cardiovascular disease in burn survivors</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Kellie Stockton (LCCH), Rob Boots (Thoracic Medicine)</td>
<td>Exercise testing in the chronic critically ill</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Michael Muller (Surgery), Anita Plaza, Kellie Stockton (LCCH), Jonny Younger (Cardiology), Orlando Flores (UQ, Medicine)</td>
<td>IMPACT – improving physical and psychological outcomes in burns: an RCT</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Rob Boots (Thoracic Medicine), Justin Kenardy (UQ CONROD), Fiona Coyer (RBWH &amp; QUT Nursing), Peter Thomas, Tracy Comans (CAHR), Jack Iwashyna (University of Michigan), Ignacio Martin-Loaches (University of Dublin), Carol Hodgson (Monash University), Bernadette Bissett (Canberra University)</td>
<td>Improving the outcome of sepsis: RCT</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Rob Boots (Thoracic Medicine), Michael Muller (Surgery), Rajeev Hegde (ICU)</td>
<td>Inhalation and right heart failure in burns</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Geetha Kayambu (National University Hospital, Singapore), Rob Boots (Thoracic Medicine)</td>
<td>i-perform – early rehabilitation in sepsis</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Peter Thomas, Alice Jones, George Ntoumenopoulous (SUT), Antonio Torres (University of Barcelona), Gianluigi (University of Barcelona)</td>
<td>Location and identification of secretion retention in ICU patients</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Michael Muller (Surgery), Rob Boots (Thoracic Medicine)</td>
<td>Microcirculation as an endpoint to burn resuscitation</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Jonny Younger (Cardiology), Sanjoy Paul (QIMR), Kellie Stockton (LCCH)</td>
<td>Mortality in burns survivors</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Tim O’Donovan (RBWH)</td>
<td>Neurodevelopmental outcomes in infants following HIE</td>
</tr>
<tr>
<td>Jennifer Paratz</td>
<td>Peter Thomas, Kellie Stockton (LCCH)</td>
<td>Saline installation in respiratory therapy in ICU, a crossover study</td>
</tr>
<tr>
<td>Joanna Hargreaves</td>
<td>Peter Thomas, Garry Kiwan(QEI)</td>
<td>Development of a clinical educator survey tool for determining clinical placement quality – validity and reliability testing of the CPQS-E tool</td>
</tr>
<tr>
<td>Leonie Naumann</td>
<td>Jennifer Paratz, Michelle Cottrell, Hildergard Reul Hirche, Tracy Comans (UQ), Anna Finnane (UQ), Trevor Russell (UQ)</td>
<td>Pilot study of education and monitoring for early lymphoedema detection being delivered by telehealth to patients after breast cancer surgery</td>
</tr>
<tr>
<td>Mahender Samanti</td>
<td>Matthew Grundy, Catherine Chong, Michelle Cottrell</td>
<td>Evaluation of hand splinting service to the management of hand injuries presenting to the RBWH Emergency and Trauma Centre</td>
</tr>
<tr>
<td>Mahender Samtani</td>
<td>Jennifer Paratz, Shaun O’Leary</td>
<td>Management of Back Pain in DEM: an RCT</td>
</tr>
<tr>
<td>Maree Raymer</td>
<td>Tracy Comans (UQ), Shaun O’Leary, Louise Mitchell, Peter Window</td>
<td>An evaluation of the variation in clinical and service related site characteristics of the state-wide Neurosurgical/Orthopaedic Physiotherapy Screening Clinic and Multidisciplinary Service (N/OPSC and MDS) and Orthopaedic Screening in Primary Care (OSIP)</td>
</tr>
<tr>
<td>Maree Raymer</td>
<td>Patrick Swete Kelly, Tina Souvlis, Angela Chang (CAHR)</td>
<td>Development and Implementation of a workforce development pathway to support advanced musculoskeletal physiotherapy (AMP) roles (Survey phase)</td>
</tr>
</tbody>
</table>
## 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maree Raymer</td>
<td>Development and Implementation of a workforce development pathway to support advanced musculoskeletal physiotherapy (AMP) roles (Consultation Phase)</td>
</tr>
<tr>
<td>Maree Raymer</td>
<td>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)</td>
</tr>
<tr>
<td>Maree Raymer</td>
<td>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)</td>
</tr>
<tr>
<td>Mark Cruickshank</td>
<td>Physiotherapy Defined Scope of Practice (Prescribing)</td>
</tr>
<tr>
<td>Michelle Cottrell</td>
<td>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</td>
</tr>
<tr>
<td>Michelle Cottrell</td>
<td>Spinal Physiotherapy Screening Clinic (SPSC) Telehealth Clinic: an evaluation of the first 2 years of service</td>
</tr>
<tr>
<td>Michelle Cottrell</td>
<td>Telerehabilitation in the multidisciplinary management of patients with chronic musculoskeletal conditions: a prospective cohort study</td>
</tr>
<tr>
<td>Michelle McGrath</td>
<td>Can Three-Dimensional Motion Analysis and Fuzzy entropy detect movement differences in General Movement Assessment Categories in the normative infant population?</td>
</tr>
<tr>
<td>Michelle McGrath</td>
<td>The use of 3-dimensional gait analysis and its efficacy on the adult population – a Systematic review</td>
</tr>
<tr>
<td>Perry Judd</td>
<td>Delivery of Orthopaedic Physiotherapy Screening Clinic (OPSC) Assessments from RBWH to Mackay Hospital via Telehealth</td>
</tr>
<tr>
<td>Peter Thomas</td>
<td>Physiotherapy management of chest trauma</td>
</tr>
<tr>
<td>Peter Thomas</td>
<td>Ventilator Hyperinflation in ventilated patients</td>
</tr>
<tr>
<td>Raj Singh</td>
<td>Circuit training in GEMS patients an RCT</td>
</tr>
<tr>
<td>Robyn Grote</td>
<td>Cost-effective analysis of the use of 3-dimensional gait analysis in the treatment of severe burns</td>
</tr>
<tr>
<td>Sally Yin</td>
<td>Risk Factors for Readmission to the GEMS ward</td>
</tr>
<tr>
<td>Shaun O’Leary</td>
<td>Do clinicians have the necessary skills to facilitate optimal utilisation of health services by patients with chronic musculoskeletal disorders?</td>
</tr>
<tr>
<td>Shaun O’Leary</td>
<td>Optimising patient selection and resource utilization for the non-surgical management of common orthopaedic conditions</td>
</tr>
<tr>
<td>Shaun O’Leary</td>
<td>Physical Therapy for Neck Pain – are we moving in the right direction?</td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Alan Wan (UQ)</td>
<td>Shaun O'Leary</td>
</tr>
<tr>
<td>Boden I (Launceston General Hospital)</td>
<td>Nanette Paxman, Peter Thomas, multiple national and international co-investigators (CHESTY Collaborative)</td>
</tr>
<tr>
<td>De Looze J (Internal Medicine Services – IMS)</td>
<td>Mary Fenn, Charles Denaro (IMS), Keshwarz Baboolal (IMS), Peter Buttrum (Allied Health), Peter Thomas, Robyn Fox (Centre for Clinical Nursing), Thea-Grace Collier (CMORE), Alison Mudge (IMS), Jeffrey Lipman (ICU), John Gowardman (ICU)</td>
</tr>
<tr>
<td>Deokhoon Jun (UQ)</td>
<td>Shaun O'Leary</td>
</tr>
<tr>
<td>Elise Gane (UQ)</td>
<td>Shaun O'Leary</td>
</tr>
<tr>
<td>Fiona Coyer (Critical Care)</td>
<td>Jessica Ingleman (QUT), Anthony Holley (ICU), Peter Thomas, Greg McNamara (ICU), Chris Edwards (QUT)</td>
</tr>
<tr>
<td>Helen Edwards (Caboolture Hospital)</td>
<td>Janelle Greitschus (QEI), Jenny Nucifora (GCUH), Sonia Sam, Susanne Keys (ACU)</td>
</tr>
<tr>
<td>Jane Nikles (RECOVER, UQ)</td>
<td>Michele Sterling (UQ), Robyn Tate (Uni of Sydney), Michael Perdices (RNSH), Geoff Mitchell (UQ), Chris Freeman (UQ), James McGree (QUT), Gerben Keijzers (Griffith &amp; Bond University), Meng-Wong Taing (UQ), Tim Ballard (UQ), Mark Cruickshank, Sally Byrne</td>
</tr>
<tr>
<td>Karyn Heineger (CNC, RBWH TMS)</td>
<td>Nanette Paxman, Kathy Hocking, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Kerina Denny (Gold Coast University Hospital)</td>
<td>Jennifer Paratz, David Paterson (Infectious Diseases), Jeff Lipman (ICU), Carl Pretorius (pathology), Joel Dulhunty (ICU)</td>
</tr>
<tr>
<td>Khalid Jaber (UQ)</td>
<td>Shaun O'Leary</td>
</tr>
<tr>
<td>Leia Barnes, Renee de Maria (Logan Hospital)</td>
<td>Ian Parker, Tamsin Smith (GCUH)</td>
</tr>
<tr>
<td>Matthew Linnane (TPCH)</td>
<td>Amanda Corley (TPCH), Amy Spooner (Centre for Clinical Nursing), Peter Thomas, Lawrence Caruana (TPCH), Oystein Tronstad (TPCH), James Walsh (TPCH), John Fraser (TPCH)</td>
</tr>
<tr>
<td>Michael Muller (Burns)</td>
<td>Jennifer Paratz, David Reutens (UQ), Hana Burianova (UQ), Joel Dulhunty (ICU)</td>
</tr>
<tr>
<td>Michelle Stute (MNHHS)</td>
<td>Peter Buttrum (Allied Health), Merrilyn Banks (Nutrition and Dieterics), Maree Raymer, Tracey Comans (UQ), Sonia Sam (Allied Health), Nicole Moretto (Allied Health), Marita Bhagwat (Allied Health)</td>
</tr>
<tr>
<td>Olivia Galea (UQ)</td>
<td>Shaun O'Leary</td>
</tr>
<tr>
<td>Rohan Grimley (SCUH)</td>
<td>Brita Hughes</td>
</tr>
<tr>
<td>Sabrina Hernandez (The Alfred Hospital)</td>
<td>Peter Thomas, Hodgson C (The Alfred Hospital)</td>
</tr>
<tr>
<td>Sandy Brauer (UQ, SHRS)</td>
<td>Jennifer Paratz</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sue Berney (Austin Hospital), Jennifer Paratz, Linda Deney (University of Melbourne), Dale Needham (John Hopkins University, USA), Ramona Hopkins (Brigham Young University)</td>
<td>Shaun O’Leary</td>
<td>Estimating cycle early rehabilitation in ICU: RCT</td>
</tr>
<tr>
<td>Venerina Johnston (UQ)</td>
<td>Shaun O’Leary</td>
<td>A workplace-based exercise intervention to prevent and reduce the economic and personal burden of non-specific neck pain in the office personnel</td>
</tr>
<tr>
<td>Xiaoqi Chen (UQ)</td>
<td>Shaun O’Leary</td>
<td>Prevention and reduction of neck pain in office workers and the effect of a workplace-based intervention</td>
</tr>
<tr>
<td>Yaheli Bet-Or (UQ)</td>
<td>Shaun O’Leary</td>
<td>Is there a difference in scapular kinematics between healthy controls and people with chronic neck pain?</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maree Raymer, Shaun O’Leary, Tracy Comans (UQ), Angela Chang (CAHR), Nicole Moretto, Lachian Standfield (Griffith)</td>
<td>Health Services and Implementation Research Award</td>
<td>MNHHS 2018 Excellence in Research Awards</td>
</tr>
<tr>
<td>Mark Cruickshank, Joel Dunstan, Tania Cavanagh, Sonia Sam.</td>
<td>Best Poster Award</td>
<td>Cairns Hinterland HHS Research and Quality Symposium 2018</td>
</tr>
<tr>
<td>Michelle Cottrell, Perry Judd and the SPSC &amp; MDS Telehealth Clinic</td>
<td>Allied Health Service Line Award</td>
<td>RBWH 2018 QuARRIES Awards</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Adsett</td>
<td></td>
<td></td>
<td>Completion Assistance Post-Graduate Research Scholarship (CAPS)</td>
<td>$5,250</td>
<td>$5,250 (2018)</td>
</tr>
<tr>
<td>Leonie Naumann, Carrie-Anne Lewis (Nutrition and Dietetics)</td>
<td>Physiotherapy, Nutrition and Dietetics</td>
<td>Measuring body composition to determine prevalence of malnutrition and lymphoedema in allied health research studies</td>
<td>Private Practice Trust Fund Equipment Grants</td>
<td>$21,053</td>
<td>$21,053 (2018)</td>
</tr>
<tr>
<td>Mark Cruickshank, Maree Raymer, Deborah Lenaghan, Daryn Marks, Sonia Sam, Tania Cavanagh, Lisa Nissen, Mark Nelson, Dean Blond, Rod Ellem, Cherie Heam, Nicole Bellet</td>
<td>RBWH Physiotherapy</td>
<td>Physiotherapy Defined Scope of Practice (Prescribing) Trial</td>
<td>Allied Health Professionals Office of Queensland (AHPOQ)</td>
<td>$40,542</td>
<td>$81,084 (2017-2018)</td>
</tr>
<tr>
<td>Michelle Cottrell</td>
<td>Physiotherapy</td>
<td>RBWH Foundation Scholarship (topup)</td>
<td>RBWH Foundation</td>
<td>$8,000</td>
<td>$8,000 (2018)</td>
</tr>
</tbody>
</table>
## 2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michelle Cottrell, Shaun O'Leary, Maree Raymer, Anne J Hill, Tracy Comans, Mark Cruickshank, Perry Judd, Patrick Swete Kelly, Trevor Russell</td>
<td>RBWH Physiotherapy and University of Queensland</td>
<td>Telerehabilitation in the multidisciplinary management of patients with chronic musculoskeletal conditions: a prospective cohort study</td>
<td>Health Practitioner Research Scheme</td>
<td>$8,714</td>
<td>$17,427 (2017-2018)</td>
</tr>
<tr>
<td>Nanette Paxman</td>
<td>Katie Acland QCRPN Tracheostomy Project Team members (state-wide)</td>
<td>State-wide Tracheostomy Survey</td>
<td>DOPSQ Funding Round 2018-19</td>
<td>$500</td>
<td>$5,000 (2018-2019)</td>
</tr>
<tr>
<td>Nanette Paxman, Peter Thomas</td>
<td>Physiotherapy Dept, RBWH</td>
<td>CHESTY – Chest infection prevalence after surgery</td>
<td>RBWH Physiotherapy Dept. Funding Round 2018</td>
<td>$5,000</td>
<td>$5,000 (2018-2019)</td>
</tr>
<tr>
<td>Sally Yin, Jennifer Paratz</td>
<td>Physiotherapy Dept, RBWH</td>
<td>Analysing risk factors for readmission to the Geriatric Evaluation and Management (GEM) ward</td>
<td>RBWH Physiotherapy Dept. Funding Round 2018</td>
<td>$2,124</td>
<td>$4,284 (2018-2019)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


**Book Publication:**

**2018 Conference Presentations – Invited Speaker, Oral and Poster**

**Invited Speaker:**
2. **Naumann L.** Australasian Lymphology Association Update. British Lymphology Society conference; Staffordshire, England; 1-2 October, 2018
3. **Naumann L.** Challenges and achievements in physiotherapy in oncology. International Conference on Physical Therapy in Oncology. Amsterdam, Netherlands; 5th June 2018
4. **O’Leary S.** Is there a best exercise for neck pain? Invited speaker – Danish Headache Centre, Copenhagen, Denmark, 7th February, 2018

**Oral Presentations:**
2. **Parker I.** A systematic review of the reported proportions of diagnoses for dizziness and Vertigo. Neuro-Ontological Society Australia. Wellington, New Zealand: 22nd November, 2018

**Poster Presentations:**
1. **Adsett J,** Hickey A, Foreman R. Heart Education Assessment Rehabilitation Toolkit (HEART) Online: 5 years on. ACRA. Brisbane 2018
2. **Adsett J,** Hickey A, Foreman R. Heart Education Assessment Rehabilitation Toolkit (HEART) Online: 5 years on. CSANZ. Brisbane 2018
3. **McGrath M,** Turner I, Xie H, Peary M, Grote R, Colditz P Can Three-Dimensional Motion Analysis and Fuzzy entropy detect movement differences in General Movement Assessment Categories in the normative infant population? World Congress of Biomechanics Dublin July 9 2018

**Other Communications and Outputs:**

**Cottrell M:** Using telehealth to improve access to AMP services. InMotion magazine, Australian Physiotherapy, Association; April 2018

**Cruickshank M:** Moving Towards Physiotherapy Prescribing. Intouch Magazine, Australian Physiotherapy Association; Issue 1, 2018

**Stewart M and Swete Kelly P:** Taking a tailored education approach. Intouch Magazine, Australian Physiotherapy Association; Issue 4, October 2018.
Psychology

In 2018, psychology within RBWH was re-established as a department in its own right. This has facilitated a greater focus on psychology based clinical research, evaluation, dissemination and integration within psychology services.

Highlights have included:
- Mapping of research areas within the department to key psychology research academics across QUT, UQ and Griffith University. This has resulted in the establishment of key partnerships and collaborations with UQ and Griffith Universities, along with adjunct staff appointments within the School of psychology at UQ and QUT.
- Ethics approval of collaborative research programs:
  - Neuropsychological model of care for stroke patients undergoing a clot retrieval study
  - Investigation of the impact of anxiety and depression on inpatient care and outcomes of hospitalised geriatric patients
  - Assessment and diagnosis of Gender Dysphoria in the context of the initiation of gender affirming hormone treatment
  - Social-cognitive functioning among patients with epilepsy
  - The effects of temporal lobectomy on electrical brain potential in response to emotional stimuli
  - Collaborative publications in telehealth (Griffith University), neuropsychology (UQ) and oncology (National Research Consortium).

This year also saw successful departmental research funding applications through the RBWH Capital Funding for Research and Training Equipment grant round (Project: Wellbeing to your Door: the implementation of a mobile psychoeducation support service for staff and consumers) and the CAHRLI Innovation/Translation Challenge (Project: Enhancing Neuropsychological and Cognitive Rehabilitation Using Innovative Digital Resources in a Public Hospital Subacute Rehabilitation Service). Our UQ and Griffith research collaborations also resulted in success project funding through the Research Project Enhancement Scheme (Griffith University) (Project: an Investigation of the Physiological Markers of Process in Face-to-Face and Videoconference Psychotherapy) and the UQ Research Committee Second Seed Funding Scheme (UQ) (Project: the Effects of Temporal Lobectomy on Electrical Brain Potentials in Response to Emotional Stimuli).

It is envisaged that 2019 will see further development of productive research collaborations both with our university partners, but also with state and national government and non-government organisations and stakeholders.
## Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Lawton</td>
<td>PhD, Central Queensland University (2016-2024)</td>
<td></td>
<td>The dark side of imagination</td>
<td>Kevin Ronin, Robin Alter</td>
</tr>
<tr>
<td>Jenna Scambler</td>
<td>DPsych (Clin and Neuro), University of Queensland (2017-2021)</td>
<td></td>
<td>The effects of Temporal Lobectomy on Electrical Brain Potentials in Response to Emotional Stimuli</td>
<td>Alan Pegna, Kate Thompson</td>
</tr>
</tbody>
</table>

## 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada Lo</td>
<td>Adjunct Senior Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2018 – current)</td>
</tr>
<tr>
<td>Angela White</td>
<td>Adjunct Industry Fellow, Clinical Consultant, Adjunct Assoc. Prof.</td>
<td>School of Psychology</td>
<td>Queensland University of Technology</td>
<td>(2018 – current)</td>
</tr>
<tr>
<td>Drew Craker</td>
<td>Adjunct Senior Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2018 – current)</td>
</tr>
<tr>
<td>Elisabeth Hamernik</td>
<td>Honorary Fellow</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2008 – current)</td>
</tr>
<tr>
<td>Kate Thompson</td>
<td>Adjunct Senior Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2018 – current)</td>
</tr>
<tr>
<td>Mala McHale</td>
<td>Adjunct Senior Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2013 – current)</td>
</tr>
<tr>
<td>Maree Grier</td>
<td>Adjunct Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2018 – current)</td>
</tr>
<tr>
<td>Rosemary Argall</td>
<td>Adjunct Associate</td>
<td>School of Psychology</td>
<td>University of Queensland</td>
<td>(2016 – current)</td>
</tr>
<tr>
<td>Stephanie Lawton</td>
<td>Adjunct Fellow</td>
<td>UQ Centre for Clinical Research</td>
<td>University of Queensland</td>
<td>(2018 – current)</td>
</tr>
</tbody>
</table>

## 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada Lo</td>
<td>Claire Muller (Neurology), Meghan Osbourne (Neurology), Kate Thompson, Elisabeth Hamernik, Angela White</td>
<td>Neuropsychological model of care for stroke patients undergoing clot retrieval</td>
</tr>
<tr>
<td>Elisabeth Hamernik</td>
<td>Andrew Craker, Mala McHale, Maree Grier, Amanda Fairclough, Amanda Francis, Christina Beckham, Desdemona Chung, Riley O’Donohue, Claire Jensen, Susan Eis, Scott Ruddell, Anna Salzgeber</td>
<td>Clinical utility of the DSM-5 cross-cutting measure in a medical setting</td>
</tr>
<tr>
<td>Elisabeth Hanson and Elisabeth Hamernik</td>
<td>Rachel Costa, Sally Price</td>
<td>Assessment and diagnosis of Gender Dysphoria in the context of the initiation of gender affirming hormone treatment</td>
</tr>
<tr>
<td>Genesta Nicolson</td>
<td>Angela White, Angela Chang (CAHR)</td>
<td>A stitch in time: evaluation of the impact and efficacy of an MDT psychoeducation workshop for non-urgent referrals on the PTCMPC waitlist</td>
</tr>
<tr>
<td>Scott Ruddell</td>
<td>Angela White, Bonnie Clough (GU), Leanne Casey (GU), Penny Judd (Physio), Michelle Cottrell (Physio), Mala McHale Andrew Craker, Elisabeth Hamernik, Kelly Stone</td>
<td>Uptake, treatment expectations and outcomes of telepsychology within an orthopedic Screening Clinic</td>
</tr>
<tr>
<td>Vanessa Whitehead and Rosemary Argall</td>
<td>Angela White, Nancy Pachana (UQ)</td>
<td>Investigation of the impact of anxiety and depression on inpatient care and outcomes of hospitalised geriatric patients</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blum (UQCCR), J Scott (UQCCR), G Robison (UQCCR), D Gillis (UQCCR), G McKean (UQCCR), A Ryan (UQCCR) M Connell (UQCCR)</td>
<td>Donna Spooner (Psychology)</td>
<td>Anti-NMDA-receptor encephalitis: an Australian case series examining patterns and predictors of cognitive outcomes</td>
</tr>
<tr>
<td>David Kavanagh, Heidi Sturk, Samantha Wild (QUT)</td>
<td>Angela White</td>
<td>Australian Health Professional Referral Rates to Digital Mental Health services and programs: a cross sectional study</td>
</tr>
<tr>
<td>David Kavanagh, Ross Young, Jane Shakespeare-Finch, Stoyan Stoyaanov, Madhavan Mani, Oksana Zalenko (QUT), Catherine Quinn, Leanne Hides (UQ)</td>
<td>Angela White</td>
<td>Evaluation of the PTSD Coach Australia App by serving and ex-serving Defence members and by Clinicians</td>
</tr>
<tr>
<td>Haryana Dhillon (University of Sydney), Joanne Shaw (University of Sydney), David Kissane (Monash University), Danette Langbecker (University of Queensland) Kim Hobbs (Westmead Hospital), Laura Kirsten (Nepean Cancer Care Centre), Lisa Beatty (Flinders Centre for Innovation in Cancer), Lisa Vaccaro (University of Sydney) Carrie Lethborg (St Vincent’s Hospital, Melbourne)</td>
<td>Maree Grier</td>
<td>Adjustment Working Group for the PoCoG Transforming Psychosocial Care of Patients in Australia: Implementation of a Comprehensive Training and Service Delivery Program</td>
</tr>
<tr>
<td>Hilary Jimmieson (Nutrition and Dietetics)</td>
<td>Riley O’Donohue</td>
<td>Quality improvement project: Development and provision of salt education group for individuals with chronic kidney disease</td>
</tr>
<tr>
<td>Jenna Scambler (UQ), Alan Pegna (UQ)</td>
<td>Kate Thompson</td>
<td>The effects of temporal lobectomy on electrical brain potential in response to emotional stimuli</td>
</tr>
<tr>
<td>Louise Cullen (DEM), Carol Jeffreys (DEM), Caitlin Lock (DEM), Emily Brownhill (DEM)</td>
<td>Andrew Craker</td>
<td>Wellness training for nurses in the Emergency Department</td>
</tr>
<tr>
<td>Maryam Ziaei (UQ), David Reutens (UQ and RBWH Neurology)</td>
<td>Kate Thompson</td>
<td>Social-cognitive functioning among patients with epilepsy</td>
</tr>
<tr>
<td>Tim Donovan (GSNU), Barbara Lingwood (UQCCR), Yvonne Elby (UQCCR), Gill Lack (GSNU), Ian Wright (Uni Woollongong), Paul Colditz (UQCCR), Katie Foxcroft (Perinatal Research Centre)</td>
<td>Stephanie Lawton</td>
<td>Preterm Early Adiposity and Childhood Outcome (PEACH Study)</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allan Pegna (UQ), Kate Thompson</td>
<td>RBWH Psychology / UQ Psychology Department</td>
<td>The Effects of Temporal Lobectomy on Electrical Brain Potentials in Response to Emotional Stimuli</td>
<td>UQ Research Committee Second Seed Funding Scheme for 2018</td>
<td>$6,880</td>
<td>$6,880 (2018)</td>
</tr>
<tr>
<td>Andrew Craker, &amp; Angela White</td>
<td>Psychology</td>
<td>Wellbeing to your Door: The implementation of a mobile psychoeducation support service for staff and consumers</td>
<td>RBWH Capital Funding for Research and Training Equipment 2018</td>
<td>$7,344</td>
<td>$7,344 (2018)</td>
</tr>
<tr>
<td>Bonnie Clough (Griffith University), Angela White, Scott Ruddell, Leanne Casey (Griffith University)</td>
<td>Psychology</td>
<td>An Investigation of the Physiological Markers of Process in Face-to-Face and Videoconference Psychotherapy</td>
<td>Research Project Enhancement Scheme, Griffith University</td>
<td>$4,200</td>
<td>$4,200 (2018)</td>
</tr>
<tr>
<td>Maryam Ziaei (UQ), Kate Thompson, David C. Reutens (UQ and Neurology)</td>
<td>Psychology and neurology</td>
<td>Social-cognitive functioning among patients with epilepsy</td>
<td>RBWH Hospital Foundation</td>
<td>$29,970</td>
<td>$59,940 (2017-2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles


2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:


Poster Presentations:

Rehabilitation Engineering, Orthotics and Prosthetics

In 2018, the Orthotics and Prosthetics and Rehabilitation Engineering teams have continued to explore a wide range of research collaboration opportunities.

The Rehabilitation Engineering team now have strong links for research with both the Queensland University of Technology and James Cook University with undergraduate students from QUT working closely with staff on projects for both universities. Two key elements of the research work in 2018 for this team were the development of a cyclic testing rig to improve the design of custom cushions and exploring opportunities in 3D imaging and advanced manufacturing. The Rehabilitation Engineering team was well represented at the 2nd Australia Assistive Technology Conference in Melbourne in November with involvement in a total of four presentations related to these key areas of interest.

The Orthotic and Prosthetic team have developed increasing links with the Sunshine Coast University to add to the existing educational links with LaTrobe University and Queensland University of Technology. Projects starting in 2018 included preliminary work on new techniques for total contact facial orthoses fabrication and new methods to produce foot orthotics. The O&P staff have been working with the universities to build a research component into all future student placements to help stimulate research and evidence based practice.

It is hoped that these collaborations will produce significant research outcomes over the coming years with a focus on the management of skin integrity issues and advanced fabrication techniques.

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Slattery</td>
<td>Adjunct Associate Professor</td>
<td>Faculty of Science and Engineering</td>
<td>Queensland University of Technology (2012 – current)</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shailendra Maharaj (LCCH)</td>
<td>Peter Slattery</td>
<td>Tele-Rehabilitation Engineering</td>
</tr>
<tr>
<td>Gunther Paul (James Cook University)</td>
<td>Peter Slattery</td>
<td>Seating cushion design simulation</td>
</tr>
</tbody>
</table>

2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:

2. Mason O, Slattery P, “Rehabilitation Engineering Centre - How are we helping?”, Australia Assistive Technology Conference 2018 (AATC), Melbourne Convention and Exhibition Centre, Melbourne 14-16 November 2018
Social Work

The Social Work Department is committed to conducting research that addresses the psychosocial needs of patients and their families and mitigates social disadvantage. To this end, in 2018 we commenced work on an elder abuse project in recognition that hospitals are important sites for the identification of vulnerable older people. The project is a collaboration with social work researchers from the University of Queensland and aims to investigate how hospital staff currently assess and respond to elder abuse, with a view to developing an integrated model of care that is responsive to the needs of both older people and their carers. This initiative is timely given that the Australian Government recently rolled out a National Elder Abuse Research Agenda.

Domestic and family violence continues to be a key focus of the Department’s work, with ongoing efforts to build an evidence base on effective interventions to ensure the safety and welfare of victims. Social workers in the Emergency and Trauma Centre participated in a multi-site investigation of screening practices used in hospital emergency departments which aims to improve detection of domestic violence. The development of a comprehensive data base to ascertain trends and patterns in domestic and family violence presentations complements this work.

Another initiative is the trial of a staff debriefing tool in the Emergency and Trauma Centre. Notably, this project aligns with Metro North’s Values in Action with a specific focus on staff wellbeing. Future work will focus on evaluating the debriefing model and the receptiveness of clinicians to using the debriefing tool.

We continue to focus our efforts on building the research capacity of staff through mentoring and encouraging clinicians to showcase their work. In 2018, two of our staff presented at the Australian and New Zealand Social Work and Welfare Education and Research Conference in Adelaide. We also collaborated with social work colleagues from the University of Queensland to present a paper at the Joint World Conference on Social Work, Education and Social Development in Dublin. This paper reported on the pilot of a psychosocial acuity scale at RBWH which assists clinicians to identify clinical areas of high, medium and low psychosocial acuity and align resources to need. The study, the first of its kind in Australia, has since attracted interest from other hospital social work departments both locally and overseas.
Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mithila Karmaker</td>
<td>PhD, UQ (2017-2018)</td>
<td></td>
<td>The housing pathways of Bangladeshi immigrants during the process of settling in Australia</td>
<td>Gai Harrison, Jill Wilson</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angela O’Malia</td>
<td>Adjunct Senior Lecturer</td>
<td>School of Nursing, Midwifery and Social Work</td>
<td>UQ (3 yrs) 2016-2018</td>
</tr>
<tr>
<td>Gai Harrison</td>
<td>Honorary Senior Lecturer</td>
<td>School of Nursing, Midwifery and Social Work</td>
<td>UQ (3 yrs) 2016-2018</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angela O’Malia, Gai Harrison</td>
<td>Karen Healy (UQ), Jill Wilson (UQ), John Drayton (UQ), Maree Peterson (UQ), Robyne LeBrocke (UQ)</td>
<td>Piloting a psychosocial acuity scale in social work at RBWH</td>
</tr>
<tr>
<td>James Ready</td>
<td>Alex Markwell (ETC)</td>
<td>Staff Debriefing in the Emergency and Trauma Centre: using Debriefing as a tool to promote wellbeing, reflection and learning</td>
</tr>
<tr>
<td>Martha Druery</td>
<td>Peter Newcombe (UQ), Cate Cameron (Griffith University), Jeffrey Lipman (UQ)</td>
<td>Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study</td>
</tr>
<tr>
<td>Vanessa Walker</td>
<td>Erin Vaughan, Gai Harrison</td>
<td>Evaluation of the Sexual Assault Response Team (SART) Service</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young (Nutrition and Dietetics, RBWH)</td>
<td>Carrie-Anne Lewis (Nutrition and Dietetics), Gai Harrison, Claire Dux (Nutrition and Dietetics), Rachana Naidu (Nutrition and Dietetics), Rajeswari Badwa (Nutrition and Dietetics), Jessic Fry (Nutrition and Dietetics), Liliana Botero (Nutrition and Dietetics), Meriln Banks (Nutrition and Dietetics)</td>
<td>Exploring the roles and values of dietetic assistants at RBWH</td>
</tr>
<tr>
<td>Thomas Torpie (GCUH)</td>
<td>James Ready, James Hughes (Nursing)</td>
<td>Domestic and Family Violence Screening in the Emergency Department: who’s doing it? How are they doing it? How often?</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martha Druery, Peter Newcombe (UQ) Cate Cameron (Griffith University), Jeffrey Lipman (UQ)</td>
<td>UQ, Griffith University, Social Work</td>
<td>Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study</td>
<td>Professor Stuart Pegg Adult Burns Centre, RBWH, Living Allowance Stipend</td>
<td>$10,000</td>
<td>$10,000 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Book Chapters / Letter Publications:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:
1. Druery M. The Trials and Tribulations of Peer-led Burns Support Initiatives in Australia: are we ‘throwing the baby out with the bath water’? Australian and New Zealand Burns Association Annual Scientific Meeting, October 2018

2. Fox S. Working with grief and loss: Disrupting theory to make way for skills development. ANZSWWER, September 2018


Poster Presentations:
1. Druery M. Rising to the challenge of long-term follow up research in burns: reducing attrition. Australian and New Zealand Burns Association Annual Scientific Meeting, October 2018.
Speech Pathology and Audiology

The Speech Pathology and Audiology Department research program has continued to flourish in 2018. The research program is diverse and spans across a range of services provided by the Speech Pathology and Audiology Department. The Speech Pathology research program encompasses the service areas of cancer care, acute and critical care as well as neurorehabilitation. The Audiology research program is currently focused on the areas of cochlear implants and tinnitus.

In essence, the research program aims to embed research into core clinical services and ensure translation of research into practice. We have continued to grow our collaborative partnerships in 2018 with ongoing successful partnerships with UQCCR Language Neuroscience Group and UQ School of Health and Rehabilitation Sciences. Furthermore, we have developed new collaborations with RECOVER Injury Research Group, UQ and QUT.

Key Outcomes and Achievements: The department had a successful research year with an increase in participation of clinicians publishing peer reviewed papers and presenting at conferences. Furthermore, there has been an increase in the number of clinicians undertaking research high degrees as well as Speech Pathology and Audiology clinicians preparing for enrolment in research higher degrees. An outstanding achievement was the international recognition of Dr Clare Burns’ pioneering telepractice research by the international Dysphagia Research Society (DRS). The DRS awarded Dr Burns the National Foundation of Swallowing Disorders Award at their annual scientific meeting in Baltimore, USA. In addition, Dr Burns and the Speech Pathology Led Telehealth Team were awarded a Highly Commended in the field of Health Service and Implementation Research at the MNHHS Research Excellence Awards. Another research award included Laura Moroney (PhD Candidate) winning the CAHRLI New Researcher Award at the CAHRLI Symposium.

A further outstanding achievement included Dr Clare Burns being awarded an inaugural Metro North Clinician Research Fellowship to further develop research in speech pathology telepractice services. The success of Dr Burns’ research has led to telepractice being embedded within the Speech Pathology Department and this new program of research will expand into other telepractice models of care and other patient groups who experience dysphagia.

The Speech Pathology and Audiology Department have a clear vision to build a research program which translates into benefits for our consumers and we are committed to researching new models of service provision and clinical innovation. We look forward to continuing to progress our research vision in 2019.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Georgia Thomas</td>
<td>PhD, UQ (2014-2019)</td>
<td></td>
<td>Language Outcomes in patients with Brain Tumours</td>
<td>Dave Copland, Katie McMahon</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>PhD, UQ (2015-2019)</td>
<td></td>
<td>Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy</td>
<td>Liz Ward, Jane Crombie, Clare Burns</td>
</tr>
<tr>
<td>Sarah Wilson</td>
<td>MPhil, UQ (2018-2022)</td>
<td></td>
<td>Assessment of dysphagia following laryngectomy</td>
<td>Bena Cartmill, Clare Burns</td>
</tr>
<tr>
<td>Shana Taubert</td>
<td>PhD, UQ (2016-2020)</td>
<td></td>
<td>Videofluoroscopic Swallow Studies: education and training approaches</td>
<td>Liz Ward, Clare Burns</td>
</tr>
</tbody>
</table>
**2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alice Pender</td>
<td>Honorary Associate Lecturer</td>
<td>Audiology, School of Health and Rehabilitation Sciences</td>
<td>University of Queensland (2016-2019)</td>
</tr>
<tr>
<td>Anna Farrell</td>
<td>Honorary Lecturer Research Coordinator</td>
<td>Speech Pathology, School of Health and Rehabilitation Sciences, Speech Pathology Department, RBWH</td>
<td>University of Queensland (2017-2020)</td>
</tr>
<tr>
<td>Carla Rose</td>
<td>Honorary Associate Lecturer, Audiology, UQ</td>
<td>Audiology, School of Health and Rehabilitation Sciences</td>
<td>University of Queensland (2018-2020)</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Honorary Lecturer</td>
<td>Speech Pathology, School of Health and Rehabilitation Sciences</td>
<td>University of Queensland (2017-2020)</td>
</tr>
</tbody>
</table>

**2018 Current RBWH Research Group / Department Led Research Activity**

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexia Rohde</td>
<td>Linda Worrall (UQ), Erin Godecke (Edith Cowan), Robyn O’Halloran (La Trobe), Anna Farrell, Penni Burfein, Andrew Wong (Stroke), Genevieve Skinner (Stroke)</td>
<td>Evidence-based identification of aphasia using a rational clinical examination approach</td>
</tr>
<tr>
<td>Alice Pender</td>
<td>Carla Rose, Angela Chang (Centre for Allied Health Research), Tracy Comans (UQ)</td>
<td>Patient outcomes following cochlear implant surgery</td>
</tr>
<tr>
<td>Anna Farrell</td>
<td>Anna Rumbach (UQ), Stacey Verner-Wren (TPCH), Rebecca Nund (UQ), Nerina Scarinci (UQ), Nicole Hutchinson (Neurology), Robert Henderson (Neurology), Pamela McCombe (Neurology)</td>
<td>Patient and family carer experiences of dysphagia in Motor Neurone Disease: determining speech pathology service needs for those living in rural and remote locations</td>
</tr>
<tr>
<td>Belinda Lehn, Sarah Wilson</td>
<td>Clare Burns, Ann-Louise Spurgin, Robert Hodge (ENT), Martin Batstone (MaxFacs)</td>
<td>Evaluation of speech and swallowing outcomes following total laryngectomy and pharyngolaryngectomy</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Lynell Bassett, Sharon Kelly (ENT)</td>
<td>Evaluation of the First Contact Audiology Clinics</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Liz Ward (CFAHR; UQ), Annie Hill (UQ), Lynell Bassett, Liz Kenny - Cancer Care (CC), Karen Malcolm- Sunshine Coast University Hospital (SCUH), Rebecca Hicks, Jenni-Lee Rees</td>
<td>Health service evaluation of two Speech Pathology models of care providing support to Head and Neck Cancer patients living in regional sites within Queensland Health</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Liz Ward (CFAHR; UQ), Annie Hill (UQ), Ben Keir (Medical Physics), Sharon Kelly (ENT), Linda Porter (Medical Imaging), Nick Phillips (Medical Imaging)</td>
<td>Conducting instrumental assessments of adult dysphagia via telehealth</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Liz Ward (CFAHR; UQ), Robyn Saxon (Sunshine Coast HHS), Brooke Cowie (Metro North HHS), Amy Gray (Wide Bay HHS), Lisa Baker (Wide Bay HHS), Natalie Winter (Cairns and Hinterland HHS), Sarah Bignell (South West HHS)</td>
<td>Development, implementation and evaluation of a Queensland Health telepractice model for the clinical assessment of adult dysphagia</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Liz Ward (CFAHR; UQ), Claire Blake, Liz Kenny, Rachael Villiers (CQHHS), Mia Hemingbrough, Tracy Comans (UQ), Kerrie-Anne Frakes (CQHHS), Phil Greenup (QH)</td>
<td>Implementation of a telepractice service providing specialist swallowing, nutrition, and communication intervention for patients with head and neck cancer</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Liz Ward (CFAHR), Jane Croombie, Jennifer Helios, Clare Burns, Ann-Louise Spurgin, Liz Kenny (CC), Brett Hughes(CC), Claire Blake (Nutrition and Dietetics)</td>
<td>Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Jennifer Helios, Liz Ward (CFAHR; UQ), Jane Croombie, Anita Pelecanos (QMR), Clare Burns, Ann-Louise Spurgin, Claire Blake, Liz Kenny, Ben Chua, Brett Hughes, Tracy Comans (UQ)</td>
<td>Implementation of the Head and Neck Cancer Low Risk Speech Pathology Pathway</td>
</tr>
</tbody>
</table>


2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liz Ward (CFCHR; UQ), Anna Farrell</td>
<td>Neurogenic dysphagia and sensory enhancement strategies</td>
</tr>
<tr>
<td>Jennifer Helios</td>
<td>Evaluation of the First Contact Dysphagia Clinic</td>
</tr>
<tr>
<td>Rob Boots (Medical-Tracheostomy Management Team), Nanette Paxman (Physiotherapy), Karyn Heineger (Nursing)</td>
<td>Evaluation of the Tracheostomy Management Team (TMT)</td>
</tr>
<tr>
<td>Anna Farrell, Lynell Bassett</td>
<td>Implementation of the Dysphagia Screening Tool</td>
</tr>
<tr>
<td>Anna Rumbach (UQ) and Katrina Webster (Ipswich Hospital)</td>
<td>Dysphagia outcomes in Subarachnoid Haemorrhage</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Video fluoroscopic Swallow Study referral processes at RBWH</td>
</tr>
<tr>
<td>Liz Ward (CFCHR; UQ), Kellie McCarthy (PAH)</td>
<td>Evaluating an e-Learning program for training in Adult MBS assessment</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alicja Malicka (UQ), Anita Burgess (UQ Audiology masters Student)</td>
<td>Carla Rose, Alice Pender</td>
<td>Evaluating the impact of joint Audiology-ENT clinical pathways on outpatient services and efficiencies: a quality assurance project</td>
</tr>
<tr>
<td>David Copland (UQ), Tracy Roxbury (UQ), Katie McMahon (UQ), Greig de Zubicaray (QUT), Marcus Meinzer (UQ)</td>
<td>Penni Burfein, Anna Farrell, Andrew Wong (Stroke)</td>
<td>Predicting and Promoting Sub-Acute Aphasia Recovery</td>
</tr>
<tr>
<td>Deborah Theodorus (UQ), Brooke-Mai Whelan (UQ), Louise Cahill (UQ), David Copland (UQ), Alan Coulthard(UQ), Elizabeth Cardell (Griffith), Adam Vogel (University of Melbourne), Stacie Park (ACU), Katie McMahon (HIRF)</td>
<td>Anna Farrell</td>
<td>Be Clear Online: an intensive speech treatment for adults with non-progressive dysarthria</td>
</tr>
<tr>
<td>Georgia Thomas (UQ), David Copland (UQ)</td>
<td>Nadia Borgna, Sarah Heaton, Anna Farrell, Lindy Jefree (Neurosurgery)</td>
<td>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</td>
</tr>
<tr>
<td>Leonie Naumann (Physiotherapy), Jennifer Paratz (Physiotherapy), Hildegard Reul-Hirche (Physiotherapy), Michelle Cottrell (Physiotherapy), Anna Finnane (UQ), Tracy Comans (UQ), Trevor Russell (UQ)</td>
<td>Clare Burns</td>
<td>A telehealth model for education and monitoring of early lymphoedema detection and shoulder dysfunction in patients after breast cancer surgery: a pilot cohort study</td>
</tr>
<tr>
<td>Linda Worrall (UQ), David Copland (UQ), Melissa Lawrie (Gold Coast HHS), Liz Ward (UQ), Moya Pattie (Wesley)</td>
<td>Penni Burfein, Anna Farrell</td>
<td>Can a new, intensive model of aphasia rehabilitation achieve better outcomes than usual care?</td>
</tr>
<tr>
<td>Salma Charania (TPCH), Anna Rumbach (UQ), Petrea Cornwell (Griffith University &amp; TPCH), Rebecca Nund (UQ)</td>
<td>Anna Farrell, Robert Henderson (Neurology), Nicole Hutchinson (Neurology)</td>
<td>A year in the life: the impact of changes in communication for a person with MND and their family and friends</td>
</tr>
<tr>
<td>Theresa Green (RBWH &amp; QUT), Bernd Ploderer (QUT), Tara Hornmann (RBWH)</td>
<td>Anna Farrell</td>
<td>An image-based tablet app to support communication of daily activity scheduling between patients with post-stroke aphasia, family and hospital staff</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clare Burns</td>
<td>The National Foundation of Swallowing Disorders Award</td>
<td>Dysphagia Research Society, Annual Scientific Meeting, 17th March 2018</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Research Translation Award</td>
<td>Queensland Health Speech Pathology Advisory Committee Annual Awards September 2018</td>
</tr>
<tr>
<td>Clare Burns and Speech Pathology Led Telehealth Team</td>
<td>Highly Commended – Health Service and Implementation Research</td>
<td>MNHHS Research Excellence Awards, 22nd May 2018</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>CAHRLI New Researcher Award</td>
<td>CAHRLI Symposium, 20th June 2018</td>
</tr>
</tbody>
</table>
### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alice Pender</td>
<td>Audiology</td>
<td>Hearing loss and ear-related issues in adult Indigenous Australians</td>
<td>MNHHS Allied Health Pre-PhD/Pre-MPhil Scholarship</td>
<td>$10,532</td>
<td>$10,532 (2018)</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Speech Pathology and Cancer Care</td>
<td>Implementation and evaluation of a telehealth service providing specialist speech pathology and nutrition and dietetic intervention for patients with head and neck cancer</td>
<td>Post-Doctoral Fellowship Grant – RBWH Research Foundation</td>
<td>$40,000</td>
<td>$80,000 (2017-2018)</td>
</tr>
<tr>
<td>Damien McDermid, Adrienne Young, Jack Bell, Therese Green, Rebecca Moore, Anna Farrell, Chloe Jarvis, Juliette Mahero, Andrew Wong</td>
<td>Nutrition and Dietetics, Stroke, Speech Pathology</td>
<td>Implementation and Evaluation of a Multi-site Acute Stroke Nutrition Care Pathway</td>
<td>HP Research Scheme</td>
<td>$26,059</td>
<td>$26,059 (2018)</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Speech Pathology and Cancer Care</td>
<td>Dysphagia outcomes in head and neck cancer patients undergoing tomotherapy</td>
<td>RBWH Foundation PhD Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
<tr>
<td>Leisa Turkington</td>
<td>Speech Pathology</td>
<td>Neurogenic dysphagia and sensory enhancement strategies</td>
<td>RBWH Foundation PhD Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
<tr>
<td>Nadia de Silva</td>
<td>Speech Pathology</td>
<td>Development of a validated intra-operative language protocol for patients with brain tumours undergoing awake craniotomy</td>
<td>CAHLRI Pre-PhD/Pre-MPhil Scholarship</td>
<td>$10,532</td>
<td>$10,532 (2018)</td>
</tr>
<tr>
<td>Penni Burfein</td>
<td>Speech Pathology</td>
<td>Return to work for younger stroke survivors with aphasia in the Australian context</td>
<td>CAHLRI Pre-PhD/Pre-MPhil Scholarship</td>
<td>$13,077</td>
<td>$13,077 (2018)</td>
</tr>
<tr>
<td>Shana Taubert</td>
<td>Speech Pathology</td>
<td>Enhancing practice in videofluoroscopic swallow study assessment</td>
<td>RBWH Foundation PhD Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
</tbody>
</table>

### 2018 Research Publications

**Journal Articles:**

2. Burns C & Wall L. Using telepractice to support the management of Head and Neck Cancer: key considerations for speech-language pathology service planning, establishment, and evaluation. Perspectives of the ASHA Special Interest Groups, (2018) 2(13), 139-146. doi:10.1044/persp2.SIG13.139
2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:

Poster Presentations:

Other Communications and Outputs:
Clare Burns Video of Dr Burn’s telehealth research featured in new CRE Telehealth video https://cretelehealth.centre.uq.edu.au/what-is-telehealth
Clare Burns Invited speaker to deliver international webinar to American Association of Veterans Affairs Speech Language Pathologist with Prof Liz Ward (CFAHR, UQ). Implementing telepractice in the care pathway for patients with head and neck cancer. 10th December 2018.
Cancer Care Services (CCS) at RBWH continues to provide expert, highly skilled, evidence-based care to patients affected by cancer and non-malignant haematological conditions, including haemophilia. As a service committed to striving for excellence, our multidisciplinary research team is an integral part of ensuring the provision of cutting edge treatment to our patients. The Cancer Care research team includes the Allied Health Professions, Cancer Nursing Professorial Precinct, Medical Oncology, Radiation Oncology, and Haematology, including the Haemophilia Centre and Bone Marrow Transplant Unit. Research is considered core business within Cancer Care, and a vehicle to the facilitation of progressive treatment for our patients.

2018 represented another year of fantastic achievement in research for Cancer Care. The annual CCS Research Retreat brought together investigators from CCS and senior hospital and district executives to enable planning to ensure that research remains at the forefront of our service both now and into the future. Initiatives in tele-trials, HiRF collaborations and multi-disciplinary care trials were highlights for our unit during the year.

A special mention and congratulations to Prof Geoff Hill, who commenced the Director of Hematopoietic Stem Cell Transplantation at the Fred Hutch / Seattle Cancer Care Alliance in July 2018. He was also awarded the Jose Carreras / E. Donnall Thomas Endowed Chair for Cancer Research. His appointment to such a prestigious position is a great achievement for one of our colleagues and staff.

Other research highlights for the year are detailed in our separate departmental reports. Of note, Dr Siok Tey was awarded a MNHHS Research Fellowship for 2019, related to her ongoing work in cellular therapies for haematological disorders. Her work will continue to be supported through a successful New Technology Grant to commence in 2019.

We look forward to 2019 to continue to strive to further expand and embed research within CCS across all patient and disease groups, incorporating new and novel approaches to care within clinical, translational and basic science research programmes and partnerships, aiming to constantly improve clinical outcomes for our patients.
RBWH Cancer Care Services has one of the largest and most active clinical research departments on the Herston Campus. We offer a large range of clinical trials encompassing haematology and bone marrow transplant, medical oncology, radiation oncology and non-malignant diseases such as haemophilia and blood clotting disorders. We have world leading nursing and allied health research operating in parallel, enriching our overall program and providing wholistic care for our patients.

The research division continues to perform at a very high level. Stand out achievements in 2018 include chief investigator funding for NHMRC and MRFF grants, the successful application for a Queensland Genomics Health Alliance Implementation grant to sequence blood cancers and a number of philanthropic/RBWH foundation grants. Special mention should also be made of Dr Siok Tey and Dr Clare Burns, who were among the 5 recipients of the inaugural round of Metro North Research Fellowships. RBWH CCS has led publications in major international journals such as Science, Blood, The Journal of Clinical Investigation, Nature Reviews in Clinical Oncology and Clinical Cancer Research, and our clinicians have co-authored papers in the New England Journal of Medicine and contributed to international practice guidelines. Numerous presentations at national and international conferences are also noted. The volume and quality of research contributions from Cancer Care has been outstanding and I congratulate all involved in this effort. In particular, I would like to mention the work of our clinical trial coordinators who keep the research program running smoothly behind the scenes. We value your efforts, patience and organisation.

Finally, I note the extraordinary contribution by Professor Geoff Hill, Director of Research RBWH CCS for the last 3 years. He has been recruited to the Fred Hutchinson Cancer Research Centre in Seattle as Full Member, and as the Director of Hematopoietic Stem Cell Transplantation for the Seattle Cancer Care Alliance. This is an outstanding recognition of Professor Hill's leading work in BMT over the last 20+ years and will provide pathways for future clinical collaborations and trainees. Geoff has been an amazing mentor and guiding light to many, including myself. On a personal note, I would like to thank him for his leadership, wisdom and humour, and wish him good luck on the journey ahead.

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Department</th>
<th>Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracey Gilbert</td>
<td>Research Support Officer</td>
<td>Cancer Care Services</td>
<td>Queensland Health</td>
</tr>
</tbody>
</table>

A/Prof. Steven Lane
Director of Clinical Research
Clinical Haematologist
Cancer Care Services RBWH
During 2018, the department of Haematology/BMT continued to pursue a comprehensive approach to clinical research at the RBWH and across Metro North. Disease stream leads and clinics continued to be developed with the establishment of Myeloma and Lymphoma clinical trials clinics to drive recruitment, efficiency and expertise in local investigator initiated and collaborative national and international trials for patients diagnosed with Myeloma and Lymphoma.

**Major funding grants attained in 2018 include:**
- NHMRC grant 2019-2021 ($900k)
- QLD Genomics Health Alliance Implementation Grant 2019-2020 ($800k)
- RBWH Foundation Diamond Grant 2018-2019 ($40k).

There have been a number of notable publications, poster and oral presentations at national and international meetings during this year particularly in the areas of Novel approaches to Haploidentical allogeneic stem cell transplantation (HSCT), Graft Versus Host Disease, relapsed disease post HSCT, prediction of mortality post allogeneic BMT, impacts of mutations in AML, unique insights into the biology of graft versus leukemia effects post BMT, genetic mechanisms underlying chemo-resistance in acute leukaemia and the journey of the HSCT donor.

Notable collaborations in 2018 included a number of trials with the Australia Leukaemia and Lymphoma Group, QIMR Berghofer, UQCCR, Herston Imaging Research Facility and the department of Dietetics.

**Supervised Post-Graduate Research Students**

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashleigh Scott</td>
<td>MPhil, UQ (2017-2019)</td>
<td></td>
<td>Targeting translocator protein to improve diagnostic accuracy in gastrointestinal graft versus host disease</td>
<td>Glen Kennedy, Siok-Keen Tey</td>
</tr>
<tr>
<td>Andrea Henden</td>
<td>PhD, UQ (2014-2018) Submitted</td>
<td></td>
<td>Interferon in bone marrow transplantation</td>
<td>Geoff Hill</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>PhD, UQ (2015-2019) Submitted</td>
<td></td>
<td>The psychosocial impact of donating haematopoietic stem cells on adult related donors</td>
<td>Jane Turner, Geoff Hill</td>
</tr>
<tr>
<td>Rebecca Austin</td>
<td>PhD, UQ Submitted</td>
<td></td>
<td>Immune responses in leukaemia</td>
<td>Steven Lane</td>
</tr>
<tr>
<td>Victoria Ling</td>
<td>PhD, UQ</td>
<td></td>
<td>Chemotherapy resistance in leukaemia</td>
<td>Steven Lane</td>
</tr>
<tr>
<td>William Godfrey</td>
<td>Hons, UQ</td>
<td></td>
<td>Chemotherapy resistance in leukaemia</td>
<td>Steven Lane</td>
</tr>
<tr>
<td>Simone Minnie</td>
<td>PhD, UQ (2015-2018)</td>
<td></td>
<td>Immunotherapy of myeloma</td>
<td>Geoff Hill</td>
</tr>
<tr>
<td>Andrew Wilkinson</td>
<td>PhD, UQ (2015-2019)</td>
<td></td>
<td>Understanding IL-6 signalling in GVHD</td>
<td>Geoff Hill</td>
</tr>
<tr>
<td>Paulo Martins</td>
<td>PhD, UQ (2015-2018)</td>
<td></td>
<td>The immunological mechanisms of CMV reactivation after BMT</td>
<td>Geoff Hill</td>
</tr>
<tr>
<td>Kate Markey</td>
<td>MPH (Monash 2016-2018)</td>
<td></td>
<td>Clinical Research Methods</td>
<td>N/A</td>
</tr>
</tbody>
</table>
## 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Lane</td>
<td>2017-19 Treasurer, Haematology Society of Australia and New Zealand</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017-22 Councillor, Haematology Society of Australia and New Zealand</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2018- Metro North Research Committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2018- Head of Cancer Program, QIMR Berghofer Medical Research Institute</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2018- Head, Cancer Theme, Brisbane Diamantina Health Partners</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2018- RBWH Research Committee member</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2015 – 2018 RBWH Haematology Research Coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrea Henden</td>
<td>2013- Senior Lecturer</td>
<td></td>
<td>The University of Queensland, Faculty of Medicine</td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Senior Clinical Research Fellowship</td>
<td></td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Honorary Practitioner Research Fellow Level 2, Laboratory Head, Principal Research Fellow</td>
<td></td>
<td>NHMRC</td>
</tr>
<tr>
<td>Kate Markey</td>
<td>Junior Research Fellow</td>
<td>Post BMT microbiome and infectious diagnostics</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Robyn Western</td>
<td>Manager, Clinical Trials Unit</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Carolyne Little</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Jessica Kelly</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Kate Stark</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Katie Matthews</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Tricia Pusztai</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Kiara Mason</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Madonna Fuery</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Michelle deBock</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Renee Campbell</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Sinead Harvey</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Angela Wotherspoon</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Nicola Quirk</td>
<td>Senior Administration Officer</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>Research Coordinator</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Sharon Milne</td>
<td>Senior Administration Officer</td>
<td>Clinical Trials Unit Haematology/Bone Marrow Transplant</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>RBWH Research Group/Department Lead Researchers</td>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>---------------------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Andrea Henden</td>
<td>Geoff Hill, Glen Kennedy, Simon Durrant, Jason Butler, Ashish Misra, Siok Tey, Elango Subramonia-Pillai, Cameron Curley</td>
<td>A phase I / II study of pegylated-interferon-2alpha for relapsed haematological malignancy after allogeneic haematopoietic progenitor cell transplantation (HPCT)</td>
<td></td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>Glen Kennedy, Siok Tey, Paul Thomas, David Pattison</td>
<td>Pilot study of 18FGE-180-PET to assess acute gastrointestinal graft versus host disease</td>
<td></td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>Leo Francis</td>
<td>Histological features and anti-TSPO immunohistochemistry (anti-TSPO IHC) in acute gastrointestinal graft versus host disease (GI-GVHD)</td>
<td></td>
</tr>
<tr>
<td>Cameron Curley</td>
<td>Haem Staff</td>
<td>JNJ AML 2002 – clinical trial of DACOGEN (Decitabine) Plus JNJ-56022473 (Anti CD123) Versus DACOGEN (Decitabine) Alone in Patients with AML</td>
<td></td>
</tr>
<tr>
<td>Cameron Curley</td>
<td>Haem Staff</td>
<td>Celgene MDS-006 FUSION – clinical trial in CC-486 (Oral Azacitidine) Alone in Combination With Durvalumab (MEDI4736) in Subjects With Myelodysplastic Syndromes</td>
<td></td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Haem Staff</td>
<td>PCYC 1140-IM ICON Integrate – clinical trial of Ibrutinib in Combination With Corticosteroids versus Placebo in Combination With Corticosteroids in Subjects with New Onset Chronic Graft Versus Host Disease (cGVHD)</td>
<td></td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Haem Staff</td>
<td>IL-17 – observational study of IL-17-related cytokines in stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Haem Staff</td>
<td>TREG Apheresis – developing a method to generate regulatory T cells from healthy donors</td>
<td></td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Haem Staff</td>
<td>IR Auto – observational study of immune reconstitution in patients undergoing autologous stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Haem Staff</td>
<td>IR Allo – Observational study of immune reconstitution following stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>Janssen VCAT – clinical trial of Bortezomib Consolidation (With Thalidomide and Prednisolone) Vs Thalidomide and Prednisolone Alone in Previously Untreated Subjects With Multiple Myeloma</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>ALLG AML M16 – clinical trial of Sorafenib in Combination with Intensive Chemotherapy for Previously Untreated Adult FLT3-ITD Positive AML</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>ALLG AML NBCR M18 – National Blood Cancer Registry</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>Amgen Onyx Endeavor – clinical trial of Carfilzomib Plus Dexamethasone vs Bortezomib Plus Dexamethasone in Patients with Relapsed Multiple Myeloma</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>Celgene IDHENTIFY – clinical trial of Orally Administered AG-221 Versus Conventional Care Regimens in Subjects with Isocitrate Dehydrogenase 2 Mutation Positive Acute Myeloid Leukemia</td>
<td></td>
</tr>
<tr>
<td>Glen Kennedy</td>
<td>Haem Staff</td>
<td>Sabrina – clinical trial of rituximab subcutaneous in combination with CHOP or CVP versus rituximab IV in combination with CHOP or CVP in follicular lymphoma</td>
<td></td>
</tr>
<tr>
<td>Jason Butler</td>
<td>Haem Staff</td>
<td>Acerta Ace-ly308 ECHO – clinical trial of Bendamustine and Rituximab alone Versus in Combination with Acalabrutinib in Mantle Cell Lymphoma</td>
<td></td>
</tr>
<tr>
<td>Jason Butler</td>
<td>Haem Staff</td>
<td>ALLG ALL NHL 29 – clinical trial of Ibrutinib, Rituximab and mini-CHOP therapy in very elderly patients with newly diagnosed DLBCL</td>
<td></td>
</tr>
<tr>
<td>Jason Butler</td>
<td>Haem Staff</td>
<td>Amgen Candor 275 – clinical trial of Carfilzomib,Dexamethasone, and Daratumumab to Carfilzomib and Dexamethasone for the Treatment of Patients With Relapsed or Refractory Multiple Myeloma</td>
<td></td>
</tr>
<tr>
<td>Jason Butler</td>
<td>Haem Staff</td>
<td>Novartis REACH 2 – clinical trial of tuxolitinib vs. best available therapy in patients with corticosteroid-resistant acute graft vs. host disease after allogeneic stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Kirk Morris</td>
<td>Haem Staff</td>
<td>Pomalidomide – “Real world” review of efficacy and safety of pomalidomide in Australian patients with relapsed refractory myeloma</td>
<td></td>
</tr>
<tr>
<td>Nick Weber</td>
<td>Paul Thomas, Samuel Kyle, Glen Kennedy, Kirk Morris, Simon Gray</td>
<td>Pilot study of 46Ga-Pentixafor positron emission tomography (PET) imaging in multiple myeloma</td>
<td></td>
</tr>
<tr>
<td>Nicholas Weber</td>
<td>Haem Staff</td>
<td>AMaRC Janssen – clinical trial of bortezomib, cyclophosphamide and dexamethasone induction (VCD) compared with VCD and daratumumab induction followed by aratumumab maintenance (VCDD) for the initial treatment of transplant ineligible patients with multiple myeloma</td>
<td></td>
</tr>
</tbody>
</table>
2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicholas Weber Haem Staff</td>
<td></td>
<td>Beta-lactam PK/PD in febrile neutopenia (Patient population: patients undergoing intensive chemotherapy with anticipated duration of neutropenia &gt;7 days)</td>
</tr>
<tr>
<td>Nicholas Weber Haem Staff</td>
<td></td>
<td>Tolerability of early enteral feeding during allogeneic haematopoietic progenitor cell transplantation: a randomized comparison with ‘standard’ parenteral nutritional support</td>
</tr>
<tr>
<td>Nienke Zomerdijk Jane Turner, Geoff Hill, David Gottlieb</td>
<td></td>
<td>The psychosocial impact of HSC donation on adult related donors</td>
</tr>
<tr>
<td>Nienke Zomerdijk Jane Turner, Geoff Hill, David Gottlieb</td>
<td></td>
<td>Evaluation of a psycho-educational resource to support adults who are donating stem cells to a family member</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Abbvie M14-031 BELLINI – clinical trial of Bortezomib and Dexamethasone in Combination with Either Venetoclax or Placebo in Subjects with Relapsed or Refractory Multiple Myeloma</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Gilead SIMPLIFy – clinical trial of Momelotinib vs Ruxolitinib in Subjects with Primary Myelofibrosis (PMF) or Post-Polycythemia Vera or Post-Essential Thrombocythemia Myelofibrosis (Post-PV/ET MF)</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Pfizer Ski Extension B1871040 – ICON – Bosutinib treatment extension study for patients with chronic myeloid leukemia</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Novartis Response – clinical trial of JAK Inhibitor INC424 tablets versus best available care in Polycythemia</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Novartis Response 2 – clinical trial of ruxolitinib versus best available therapy in patients with polycythemia vera</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>HELIOS CMV – clinical trial of a Therapeutic Vaccine, ASP0113, in Cytomegalovirus (CMV)-Seropositive Recipients Undergoing Allogeneic, Hematopoietic Cell Transplant (HCT)</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Gilead NIAGRA 119 – clinical trial of Idelalisib (GS-1101) in Combination with Ofatumumab for Previously Treated Chronic Lymphocytic Leukemia</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Comfort Rollover – clinical trial of patients who have completed a prior global Novartis or Incyte sponsored ruxolitinib (INC424) study and are judged by the investigator to benefit from continued treatment</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>ROBIN BDM3502 – clinical trial of Bendamustine compared to physician’s choice in the treatment of NonHodgkin’s Lymphoma</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Amgen Blincyto 292 Verdi – clinical trial comparing Blinatumomab to Standard of Care</td>
</tr>
<tr>
<td>Simon Durrant Haem Staff</td>
<td></td>
<td>Novartis Harmony – clinical trial of Ruxolitinib (INC424) and BKM120 in patients with Myelofibrosis</td>
</tr>
<tr>
<td>Steven Lane Haem Staff</td>
<td></td>
<td>APML5 – clinical trial of oral arsenic in AML</td>
</tr>
<tr>
<td>Steven Lane Haem Staff</td>
<td></td>
<td>AML M21: Sorafenib and azacitidine in AML</td>
</tr>
<tr>
<td>Steven Lane Haem Staff</td>
<td></td>
<td>AML genomic analysis</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashleigh Scott</td>
<td>RBWH Research Postgraduate Scholarship 2018 ($40,000)</td>
<td>To perform research activities in 2018</td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>RBWH Research Postgraduate Scholarship 2019 ($44,000)</td>
<td>To perform research activities in 2019</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>UQ Faculty of Medicine Travel Scholarship ($1,600)</td>
<td>To support research activities in 2018</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>UQ HDR Candidate Development Award ($4,000)</td>
<td>To support research activities in 2018</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>Best Oral Presentation</td>
<td>UQ Clinical and Public Health Symposium</td>
</tr>
</tbody>
</table>
## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashleigh Scott</td>
<td>Haematology/BMT</td>
<td>Pilot study of 18FGE-180-PET to assess acute gastrointestinal graft versus host disease</td>
<td>RBWH Foundation Diamond Care Grants</td>
<td>$20,000</td>
<td>$40,000 (2017-2018)</td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>Haematology/BMT</td>
<td>Histological features and anti-TSPO immunohistochemistry (anti-TSPO IHC) in acute gastrointestinal graft versus host disease (GI-GVHD)</td>
<td>Pathology Queensland Study, Education and Research Committee</td>
<td>$1,494</td>
<td>$2978.16 (2017-2018)</td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>Haematology/BMT</td>
<td>Using novel brain imaging to define mechanisms of persisting central nervous system toxicity (“Chemobrain”) following allogeneic progenitor cell transplantation</td>
<td>RBWH Foundation Diamond Care Grants</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Director of Research – CCS RBWH</td>
<td>Immunological therapies for cancer, chronic infection and autoimmunity</td>
<td>NHMRC Program grant: APP1071822</td>
<td>$359,506</td>
<td>$1,797,530 (2015-2019)</td>
</tr>
<tr>
<td>Geoff Hill</td>
<td>Director of Research – CCS RBWH</td>
<td></td>
<td>NHMRC senior Principal Research Fellowship</td>
<td>$187,780</td>
<td>$938,900 (2016-2020)</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>Haematology/BMT</td>
<td>The psychosocial impact of donating haematopoietic stem cells on adult related donors</td>
<td>Australian Postgraduate Award</td>
<td>$26,000</td>
<td>$78,000 (2015-2018)</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>Haematology/BMT</td>
<td>The psychosocial impact of donating haematopoietic stem cells on adult related donors</td>
<td>RBWH Foundation Diamond Cancer Care Grant</td>
<td>$2,500</td>
<td>$5,000 (2017-2018)</td>
</tr>
<tr>
<td>Nienke Zomerdijk</td>
<td>Haematology/BMT</td>
<td>The psychosocial impact of donating haematopoietic stem cells on adult related donors</td>
<td>RBWH Foundation Top Up Scholarship</td>
<td>$8,000</td>
<td>$16,000 (2017-2018)</td>
</tr>
<tr>
<td>Siok Tey</td>
<td>Haematology/BMT</td>
<td>The interplay between IL-6 and GVHD on anti-viral and anti-leukemic immunity</td>
<td>NHMRC Project Grant</td>
<td>$163,125</td>
<td>$489,376 (2016-2018)</td>
</tr>
<tr>
<td>Steven Lane</td>
<td>Haematology/BMT</td>
<td>Targeting Leukaemia Stem cells through inhibition of telomerase</td>
<td>NHMRC Project Grant</td>
<td>$219,000</td>
<td>$657,000 (2016-2018)</td>
</tr>
<tr>
<td>Steven Lane</td>
<td>Haematology/BMT</td>
<td>The evolution of acute myeloid leukaemia through the in-situ transformation of haematopoietic stem cells</td>
<td>NHMRC Project Grant</td>
<td>$215,667</td>
<td>$647,000 (2016-2018)</td>
</tr>
<tr>
<td>Steven Lane</td>
<td>Haematology/BMT</td>
<td>Deciphering the overlapping roles of SSB1 and SSB2 in the regulation of haematopoiesis and intestinal homeostasis</td>
<td>NHMRC Project Grant</td>
<td>$239,750</td>
<td>$959,000 (2015-2018)</td>
</tr>
<tr>
<td>Steven Lane</td>
<td>Haematology/BMT</td>
<td>Genetic modelling of MPN progression</td>
<td>Cancer Australia</td>
<td>$100,000</td>
<td>$200,000 over 2 years</td>
</tr>
<tr>
<td>Steven Lane</td>
<td>Haematology/BMT</td>
<td>Understanding Chemoresistance in AML</td>
<td>CSL Centenary Fellowship</td>
<td>$250,000</td>
<td>$1.25m over 5 years</td>
</tr>
</tbody>
</table>

## 2018 Research Publications

### Journal Articles:


Journal Articles: (cont):


8. Barge, L., Pahn, G., & Weber, N. Transient immune-mediated agranulocytosis following Mycoplasma pneumoniae infection. BMJ Case Reports. Published online 1 April 2018. doi: 10.1136/bcr-2018-224537


11. Markey, K.A., Gartlan, KH., Kuns, RD., Lane, SW., & Hill, GR. Conventional dendritic cells are required for the cross-presentation of leukemia-specific antigen in a model of AML relapse post-BMT. Bone Marrow Transplantation. Published online 13 March 2018. doi: 10.1038/s41409-018-0148-y

12. Markey, K.A., Gartlan, KH., Kuns, RD., Lane, SW., & Hill, GR. Conventional dendritic cells are required for the cross-presentation of leukemia-specific antigen in a model of AML relapse post-BMT. Bone Marrow Transplantation. Published online 13 March 2018. doi: 10.1038/s41409-018-0148-y


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

1. Lane SW. Genome editing to model the progression of blood cancers. Pathology Update: the annual scientific meeting of the Royal College of Pathologists of Australasia. March 2018, Sydney

2. Lane SW. In vivo modeling of disease progression in MPN. Cure Cancer Australia Annual Scientific Meeting. May 2018, Sydney

3. Lane SW. Kanga News Dinner. Cure Cancer Australia. May 2018, Sydney

4. Lane SW. Genome editing to model the progression of blood cancers. Pathology Update: the annual scientific meeting of the Royal College of Pathologists of Australasia, June 2018. Sydney

5. Henden A. A Phase I/II study of Pegylated-Interferon 2-alpha for relapsed haematological malignancy after allogeneic progenitor cell transplantation. Blood Annual Scientific Meeting, October 2018, Brisbane


7. Thirunavukarasu CE, Scott AP. Predictors of mortality in true positive versus discordant gastrointestinal graft versus host disease (GI-GVHD). Blood Annual Scientific Meeting, October 2018, Brisbane


Oral Presentations:
3. Vu T, Lane SW. Overexpression of the transcription factor Cdx2 in haematopoietic stem cells predisposes to haematologic malignancies. International Society of Experimental Hematology, August 2018, Los Angeles
4. Austin R... Lane SW. Oncogenic-Drivers Dictate Immune Responses to Control Disease Progression in Acute Myeloid Leukaemia. ASH Annual Meeting, December 2018, San Diego
5. Curtis DJ... Lane SW. Small-Molecule Inhibition of PRMTs Induces Translational Stress and p53 in JAK2V617F Mutant Myeloproliferative Neoplasms. ASH Annual Meeting, December 2018, San Diego
6. Lane SW. Leukaemia Foundation – Current Challenges in the management of MPN, September 2018, Brisbane
8. Butler J. Improving patient outcomes: Novel agents for Chronic Lymphocytic Leukaemia (CLL) and Follicular Lymphoma (FL). Zydelig Nurses Meeting, August 2018, Brisbane
9. Pusztai, T. Practical patient management – Novel agents for CLL and FL. Zydelig Nurses Meeting, August 2018, Brisbane
13. Tate C. Outcomes in severe aplastic anaemia post allogeneic stem cell transplant. RBWH Cancer Care Research Retreat, November 2018, Brisbane
14. Zomerdijk N. Being a stem cell donor for a chronically ill-family member: adult donors’ experiences and unmet needs. The University of Queensland Clinical and Public Health Symposium, November 2018, Brisbane

Poster Presentations:
3. Ling YV... Tey SK, Lane SW. Identification of Genetic Pathways Controlling Resistance to Standard Combination Chemotherapy in Acute Myeloid Leukemia. ASH Annual Meeting, December 2018, San Diego
4. Zomerdijk N. Predictors of negative psychosocial outcomes among adult related stem cell donors – an Australian Multicenter study. The 20th World Congress of Psycho-Oncology and Psychosocial Academy, November 2018, Hong Kong
5. Zomerdijk N. Adult related stem cell donor experiences – qualitative results from an Australian Multicenter study. The 20th World Congress of Psycho-Oncology and Psychosocial Academy, November 2018, Hong Kong.
Aims of the research group: the Cancer Care Nursing Professorial Precinct is a strategic collaboration between nurses in Cancer Care Services, Royal Brisbane and Women’s Hospital and academics in the School of Nursing, Queensland University of Technology (QUT). Led by Professor Patsy Yates, the Precinct aims 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. There is a thriving culture of research that delivers continuous service improvement and evidence-based care.

Outcomes for 2018: the key areas of the Precinct’s research programme have continued into 2018. This has included service delivery improvement, vascular access device management, prevention of blood stream infections, managing treatment toxicities, survivorship care and palliative care. Ongoing projects have included further growth of the vascular access devices registry, providing pro-active palliative care for people at risk of dying and research into current models of care. One of the key strengths of the Precinct is 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 directly improve the care of patients. 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 has enabled excellence in delivery of nursing care across clinical areas. International impact continues with the ongoing dissemination of research through publications and conference presentations.

Research activities have been funded by a 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 2018, several nurses completed such studies and were awarded competitive scholarships. Three nurses completed higher degree research qualifications. Other highlights include members of the Precinct receiving four awards.

The key strength of the Cancer Nursing Professorial Precinct lies in the team’s ability to collaborate widely. In 2018, RBWH cancer nurses worked with academic institutions including QUT, Griffith University, University of Southern Queensland, and University of Queensland. Collaborations also occurred with Princess Alexandra Hospital and Gold Coast University Hospital. These collaborations have continued to enhance the quality and impact of the research conducted in Cancer Care Services at the RBWH.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sarah Northfield</td>
<td>Master of Applied Science (Research), QUT (2014-2018)</td>
<td>The palliative care referral decision-making process in the acute cancer setting: Nurses’ advocacy behaviours and the factors influencing these behaviours</td>
<td>Patsy Yates, Raymond Chan, John Rosenberg</td>
<td></td>
</tr>
<tr>
<td>Julie Flynn</td>
<td>PhD, Griffith University (2015-2018)</td>
<td>Decontamination of central venous catheter needleless connectors</td>
<td>Claire Rickard, Samantha Keogh, Li Zhang, Amanda Ullman</td>
<td></td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>PhD, Griffith University (2012-2018)</td>
<td>The safety of parenteral nutrition regarding microbial growth and vascular catheter-related infection (The FACT Study)</td>
<td>Claire Rickard, David MacMillan, Samantha Keogh</td>
<td></td>
</tr>
<tr>
<td>Rae Blades</td>
<td>Master of Applied Science (Research), QUT (2016-2019)</td>
<td>A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury in head and neck cancer patients</td>
<td>Patsy Yates, Raymond Chan, Steven McPhail</td>
<td></td>
</tr>
<tr>
<td>Therese Hayes</td>
<td>Master of Applied Science (Research), QUT (2016-2019)</td>
<td>Unmet care needs in elderly patients with a haematological malignancy</td>
<td>Raymond Chan, Patsy Yates,</td>
<td></td>
</tr>
</tbody>
</table>
### Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Justine Leach</td>
<td>Master of Applied Science (Research), QUT (2016-2019)</td>
<td>Nurse-led Clinics in Cancer Care Services</td>
<td>Raymond Chan, Patsy Yates</td>
<td></td>
</tr>
<tr>
<td>Natasha Roberts</td>
<td>PhD, QUT (2016-2019)</td>
<td>Patient Reported Outcomes in the Medical Oncology Setting (iPROMOs)</td>
<td>Monika Janda, Kimberly Alexander, David Wyld</td>
<td></td>
</tr>
<tr>
<td>Tai-Rae Downer</td>
<td>MPhil, QUT (2017-2019)</td>
<td>Identifying patterns of care in Geriatric Oncology patients through health service usage and costs</td>
<td>Louise Gordon, Raymond Chan, Patsy Yates</td>
<td></td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Gavin</td>
<td>Co-joint nurse researcher</td>
<td>QUT and RBWH Cancer Care Services</td>
<td>Queensland University of Technology (2017 – current)</td>
</tr>
<tr>
<td>Elise Button</td>
<td>Co-joint nurse researcher</td>
<td>QUT and RBWH Cancer Care Services</td>
<td>Queensland University of Technology (2017 – current)</td>
</tr>
<tr>
<td>Raymond Chan</td>
<td>NHMRC Health Professional Research Fellowship</td>
<td>Development and evaluation of a tailored fatigue self-management behavioural intervention for patients with advanced cancer</td>
<td>Queensland University of Technology (2014-2018)</td>
</tr>
<tr>
<td>Patsy Yates</td>
<td>Head, School of Nursing, QUT, Professorial Precinct Lead</td>
<td>School of Nursing</td>
<td>Queensland University of Technology (ongoing)</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Gavin</td>
<td>Nicole Gavin, Gillian Nasato, Nicole Marsh, Emily Larsen, Sarah Northfield, Glen Kennedy, David Wyld, Michael Smith, Krispin Hajkowicz (ID), Trent Atkinson (DMI), Barbara Hewer (VASE), Fiona Coyer (QUT), Alison Alexander, Patsy Yates, Peter Molle (PAH)</td>
<td>Central Venous Access Device Registry</td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>Nicole Gavin, Gillian Nasato, Sarah Northfield, Shelley Kulpeger (MN Consumer Engagement), Mirko Guaralda (QUT), Glen Kennedy, David Wyld, Elise Button, Michael Smith, Krispin Hajkowicz (ID), Graham Steel (EDAMS), Trish Hurst (IC), Janelle Zillmann (IC), Bridget Heinemann (Comms), Alison Alexander, Jared Donovan (QUT), Glenda Caldwell (QUT), Markus Rittenbruch (QUT), Cynthia Cliff (QUT), Kaye Petherick (QUT)</td>
<td>Collaborative Engagement Strategy Study: Hand Hygiene</td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>Nicole Gavin, Amanda Ullman (GU), Tricia Kleidon (LCCH), Nicole March (CCN), Emily Larsen, Jill Campbell (Skin Integrity), Claire Rickard (GU)</td>
<td>Estimating the prevalence of impaired skin surrounding devices: The EPISODE Study</td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>Nicole Gavin, Amanda Ullman (GU), Tricia Kleidon (LCCH), Claire Rickard (GU), Li Zhang (GU), Emily Larsen</td>
<td>Peripherally Inserted Central Catheter Outcomes Polyurethane AnveRsus Endexo: the PICCOMPARE Trial</td>
</tr>
<tr>
<td>Nicole Gavin</td>
<td>Claire Rickard, Nicole Gavin, David MacMillan, Samantha Keogh, Gillian Ray-Barruel</td>
<td>The safety of parenteral nutrition regarding microbial growth and vascular catheter-related infection (The FACT Study)</td>
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</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

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<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Gavin</td>
<td>Nicole Gavin, Elise Button, Rebecca Lippiatt, Emily Russell, Nicole Marsh, Emily Larsen, Julie Flynn, Glen Kennedy, David Wyld, Michael Smith, Alison Alexander, Amanda Sutherland, Jennifer O'Brien, Danielle Johanson, Kieren Barker, Tracy Glynn, David Williams, Therese Hayes, Jenni Leutenegger, Rae Blades, Barbara Hewer, Catriona Booker</td>
<td>Improving vascular access care in cancer care services</td>
</tr>
<tr>
<td>Julie Flynn</td>
<td>Claire Rickard, Samantha Keogh, Li Zhang, Amanda Ulman</td>
<td>Decontamination of central venous catheter needleless connectors</td>
</tr>
<tr>
<td>Rae Blades</td>
<td>Patsy Yates, Raymond Chan, Steven McPhail</td>
<td>A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury in head and neck cancer patients</td>
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<td>Sarah Northfield</td>
<td>Patsy Yates, Raymond Chan, John Rosenberg</td>
<td>The palliative care referral decision-making process in the acute cancer setting: nurses’ advocacy behaviours and the factors influencing these behaviours</td>
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<tr>
<td>Therese Hayes</td>
<td>Raymond Chan, Patsy Yates</td>
<td>Unmet care needs in elderly patients with a haematological malignancy</td>
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<tr>
<td>Justine Leach</td>
<td>Raymond Chan, Patsy Yates</td>
<td>Nurse-led Clinics in Cancer Care Services</td>
</tr>
<tr>
<td>Robyn Matthews</td>
<td>Raymond Chan, Patsy Yates, Elise Button</td>
<td>End-of-life care education and training essentials of health professionals in the acute care setting</td>
</tr>
<tr>
<td>Mary-Ellen Yarker</td>
<td>Carol Windsor, Jennifer Fox</td>
<td>The role of the oncology nurse in the decision-making process of the oncology patient</td>
</tr>
<tr>
<td>Elise Button</td>
<td>Elise Button, Nicole Gavin, Jason Butler, Raymond Chan, Patsy Yates</td>
<td>The Patient And Carer’s well-being, values and preferences, living with life-threatening illness (The PACE Study)</td>
</tr>
<tr>
<td>Brighid Scanlon</td>
<td>Jo Durham</td>
<td>‘Understanding barriers to health access in populations experiencing displacement’</td>
</tr>
<tr>
<td>Raymond Chan</td>
<td>Patsy Yates, Jane Turner, Brett Hughes, Raymond Chan</td>
<td>Development and evaluation of a tailored fatigue self-management behavioural intervention for patients with advanced cancer</td>
</tr>
<tr>
<td>Raymond Chan</td>
<td>Natalie Bradford, Patsy Yates, Ann Boner, Wolf Marx, lint Douglas</td>
<td>Nurse-led models of care where the nurse takes a primary care role: a systematic review</td>
</tr>
<tr>
<td>Raymond Chan</td>
<td>Glen Kennedy, Patsy Yates, Jane Turner, Elise Button, Anthony Smith</td>
<td>A Multi-Centre Randomised Controlled Trial of a Nurse-led Survivorship Intervention for EmpowerNG pAtients with HodGkin’s and Non-Hodgkin’s Lymphoma after trEatment: (The ENGAGE Trial)</td>
</tr>
<tr>
<td>Elise Button</td>
<td>Elise Button, Nicole Gavin, Jason Butler, Raymond Chan, Patsy Yates</td>
<td>The Patient And Carer’s well-being, values and preferences, living with life-threatening illness (The PACE Study)</td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>------------------------</td>
</tr>
<tr>
<td>Emily Larsen, Nicole Marsh, Nicole Gavin, Julie Flynn, Joan Webster (Griffith University)</td>
<td>Nicole Gavin, Julie Flynn</td>
<td><strong>Cancer caRE: The risk factors of venous access failure (CAREtaker Study)</strong></td>
</tr>
<tr>
<td>Glen Kennedy, Patsy Yates, Jane Turner, Anthony Smith</td>
<td>Elise Button</td>
<td>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)</td>
</tr>
<tr>
<td>Yates, P (Project Lead), Ash K (QUT) &amp; Cancer Australia - collaborative lead researchers.</td>
<td>Northfield S – Service line researcher</td>
<td>The psychosexual care of women affected by gynaecological cancers: An e-learning resource for healthcare professionals (redevelopment and content update of modules)</td>
</tr>
<tr>
<td>Dr Carol Douglas</td>
<td>Sarah Northfield</td>
<td>The Care Of the Dying Evaluation (CODE) Project: a survey of bereaved persons in an Australian acute care setting</td>
</tr>
<tr>
<td>Kathy Hurree</td>
<td>Elise Button, Nicole Gavin</td>
<td>Educating patients – their way: a co-design approach to develop patient education videos regarding medication administration and supportive cares</td>
</tr>
<tr>
<td>Kaye Petherick, Judith McLean, Lowanna Dunn, Deborah Anderson, Cynthia Cliff, Marisha McAuliffe (QUT)</td>
<td>Alison Alexander, Gillian Nasato, Michael Smith, Glen Kennedy (Cancer Care Services)</td>
<td>Cancer Care Information Portal for Cancer Patients in Brisbane's Metro North Area</td>
</tr>
<tr>
<td>Claire Rickard, Peter Mollee, Geoffrey Playford, Li Zhang, Sam Keogh, Andrew Hatlahan, Evan Alexandrou (Griffith University)</td>
<td>Raymond Chan, Nicole Gavin, Emily Larsen (Cancer Care Services)</td>
<td>Peripherally inserted central catheter dressing and securing in cancer patients: the PISCES Trial. Protocol for a 2x2 factorial, superiority randomised controlled trial</td>
</tr>
<tr>
<td>Bonnie Clough, Sonj March, Leanne Casey, Rachel Phillips R, &amp; Michael Ireland. (University of Southern Queensland and Ipswich Hospital)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>Psychosocial interventions for Managing Occupational Stress and Burnout among Medical Doctors: A Systematic Review</td>
</tr>
<tr>
<td>Alexandre Chan (National University of Singapore)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>A culturally adapted, multidisciplinary psychoeducation program for early-stage breast cancer survivors in Asia: a randomized, controlled trial</td>
</tr>
<tr>
<td>Elaine Barros Ferreira, Christiane Inocêncio Vasques, Rafael Gadia, Eliete Neves Silva Guerra, Luis André Mezzomo, Graziele De Luca Canto, Paula Elaine Diniz dos Reis (University of Brasília, Brazil)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>Topical interventions to prevent acute radiation dermatitis in head and neck cancer: a systematic review and meta-analysis</td>
</tr>
<tr>
<td>Natalie Bradford, Rachel Edwards (Children's Health Queensland)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>Heparin versus 0.9% sodium chloride intermittent flushes for CVC in children and infants: a systematic review and meta-analysis</td>
</tr>
<tr>
<td>Tewodros Eyob, Terence Ng, Alexandre Chan (National University of Singapore)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>Impact of chemotherapy on cancer-related fatigue and cytokines in 1312 patients: a systematic review of quantitative studies</td>
</tr>
<tr>
<td>Laisa Teleni, Alexandre Chan, Liz Isenring, Ian Vela, Wurrick Inder, Debra Anderson, Alexandra McCarthy. (Bond University, National University of Singapore, and PA Hospital)</td>
<td>Raymond Chan (Cancer Care Services)</td>
<td>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</td>
</tr>
</tbody>
</table>
## 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gavin NC</td>
<td>Best poster</td>
<td>Intravenous Nursing New Zealand</td>
</tr>
<tr>
<td>Gavin NC</td>
<td>Best Research Paper</td>
<td>Cancer Nurses’ Society of Australia</td>
</tr>
<tr>
<td>Gavin NC</td>
<td>Winner Consumer Focus Project</td>
<td>QuARRIES</td>
</tr>
<tr>
<td>Button E</td>
<td>Third place</td>
<td>eHealth Hackathon</td>
</tr>
</tbody>
</table>

## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gavin NC, Curtis K, Fuller F, Jansens W</strong></td>
<td>Cancer Care Services</td>
<td>Revision of Cancer Nurses’ Society of Australia Vascular Access Device Guidelines</td>
<td>Cancer Nurses’ Society of Australia Special Project Funding 2018</td>
<td>$27,467.52</td>
<td>$27,467.52 (2018)</td>
</tr>
<tr>
<td><strong>Elise Button, Nicole Gavin, Jason Butler, Raymond Chan, Patsy Yates</strong></td>
<td>Cancer Care Services</td>
<td>The Patient And Carer’s well-being, values and preferences, living with life-threatening illness (The PACE Study)</td>
<td>RBWH Foundation Susan Suduk OneDay To Conquer Cancer Diamond Care Grants 2017</td>
<td>$20,000</td>
<td>$40,000 (2017-2018)</td>
</tr>
<tr>
<td><strong>Raymond Chan, Alex Molassiotis, Patsy Yates, Gillian Nasato, Teresa Brown, Elise Button, Andrea Marshall, I Isenring, David Wyld, Melissa Eastgate, Nicole Gavin</strong></td>
<td>Cancer Care Services</td>
<td>A Patient-family-Centered intervention to promote Nutrition In Advanced Cancer patients</td>
<td>RBWH Foundation Susan Suduk OneDay To Conquer Cancer Diamond Care Grants 2017</td>
<td>$20,000</td>
<td>$40,000 (2017-2018)</td>
</tr>
<tr>
<td><strong>David Wyld, Matthew Burge, Raymond Chan, Jane Turner, Patsy Yates, Rachel Neale, Vanessa Beesley</strong></td>
<td>Cancer Care Services</td>
<td>Towards improved support of patients with pancreatic cancer and their families</td>
<td>RBWH Foundation Susan Suduk OneDay To Conquer Cancer Diamond Care Grants 2017</td>
<td>$20,000</td>
<td>$40,000 (2017-2018)</td>
</tr>
<tr>
<td><strong>Patsy Yates, Raymond Chan, David Wyld</strong></td>
<td>Cancer Nursing Professorial Precinct; Cancer Care Services</td>
<td>A sequential multiple assignment randomized trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy</td>
<td>NHMRC</td>
<td>$237,418</td>
<td>$713,418 (2017-2020)</td>
</tr>
<tr>
<td><strong>Elise Button, Sarah Northfield, Nicole Gavin, Glen Kennedy, David Wyld, Gillian Nasato, Jeffrey Rowland, Rhonda Mead, Darshit Thaker, Danielle Johanson, Justine Leach, Shelley Kulperger, Carey Ann Tanner, Gary Powell, Patsy Yates, Ray Chan, Geoff Mitchell</strong></td>
<td>Cancer Care Services</td>
<td>The Rainy-Day Care bundle: a pilot</td>
<td>State-wide End of Life Strategy SEED funding</td>
<td>$60,000</td>
<td>$120,000 (2017-2018)</td>
</tr>
<tr>
<td><strong>Rae Blades</strong></td>
<td>Cancer Care Services</td>
<td>A cost-effectiveness analysis of a silicone gel (StrataXRT®) for prophylaxis and management of Radiation Induced Skin Injury in head and neck cancer patients</td>
<td>RBWH Foundation</td>
<td>$36,863.96</td>
<td>$36,863.96 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:

1. **Button, E.** The Rainy-Day Care projects. State-wide Strategy for Care at the End of Life Forum, March 2018

2. **Flynn, J.** Decontamination of the needleless connector: an in vitro study. Rotorua, New Zealand

3. **Button E.** When do people with a haematological malignancy first show signs of risk of deteriorating and dying? International Conference on Cancer Nursing, Auckland. September 2018


5. **Northfield S, Chan RJ, Rosenberg J, Yates P.** Factors associated with patient access to specialist palliative care services in an acute cancer setting. Palliative Care Nurses Australia (PCNA) conference. May 2018

6. **Northfield S, Chan RJ, Rosenberg J, Yates P.** Identifying the factors that influence cancer nurses advocating for patient referrals to specialist palliative care services: a national survey. Palliative Care Nurses Australia (PCNA) conference. May 2018

7. **Coyne E, Northfield S, Ash K, Brown-West L, Miles C, Munton K, Barratt C.** A review of literature to provide evidence for best practice administering chemotherapy to enable optimum patient outcomes and nurse safety. (Oral presentation – Coyne E). CNSA 21st Annual Congress, Brisbane


9. **Button E, Gavin NC, Chan R, Connell S, Butler J, Yates P.** Clinical indicators that identify risk of deteriorating and dying in people with a haematological malignancy. CNSA 21st Annual Congress, Brisbane


11. **Roberts N, Janda M, Alexander K, Wylde D.** Facilitators and Barriers to Implementing Patient Reports Outcome Measures (PROMs) in Routine Oncology Nursing Care. CNSA 21st Annual Congress, Brisbane


17. **Button E.** When do people with a haematological malignancy first show signs of risk of deteriorating and dying? International Conference on Cancer Nursing, Auckland. September 2018
Oral Presentations: (cont):


Poster Presentations:


3. Fernandes J, Gavin NC & Button E. Urokinase versus alteplase for the management of occluded central venous access devices: a systematic review. Royal Brisbane and Women’s Hospital Symposium 2018

4. Wong L & Gavin NC. Does a clinical sepsis pathway improve outcomes in cancer patients? A systematic review. Royal Brisbane and Women’s Hospital Symposium 2018

5. Percival V & Gavin NC. Post-dural puncture headache following lumbar puncture and intrathecal chemotherapy, how long should patients remain recumbent? A systematic review. Royal Brisbane and Women’s Hospital Symposium 2018

6. Barker K, Sutherland A. Two Person Medication Administration Compliance. CNSA 21st Annual Congress, Brisbane


12. Scanlon B, A literature review on the efficacy of increasing the tobacco excise within Australia. CNSA 21st Annual Congress, Brisbane.
The Cancer Care Services Medical Oncology (MO) Department provides clinical services to the Metro North HHS district through its staff managing patients at RBWH, North Lakes, TPCH and Caboolture. The unit continued to expand its research portfolio in 2018, with progress in a number of different areas. Below are a few selected highlights from the department in 2018.

Offering individuals with cancer access to new therapies as part of a clinical trial is recognised as an essential part of any academic oncology unit. The MO department has a very active clinical trials program which continues to be recognised for its conduct of high quality clinical research, which is a credit to all involved. 2018 was a very busy year, with 121 studies active in 2018. 267 new patients were recruited to studies in 2018, with 591 patients in total on study at some point in 2018.

A highlight in this area include the national MONNARCC Study in metastatic colorectal cancer commencing recruitment this year, with Dr Matthew Burge as the national chief investigator – a concept he developed and he now leads for the Australasian Gastrointestinal Trials Group. And this year A/Prof Brett Hughes and Dr Elizabeth Ahern, in conjunction with Prof Mark Smyth at QIMR have developed and obtained funding to conduct an innovative project evaluating anti-PD1 checkpoint inhibition combined with RANKL blockade in operable NSCLC. This project, led by RBWH, will be conducted at RBWH, TPCH and two other Qld sites, and has a major translational component which will be undertaken by Prof. Smyth at QIMR.

Departmental staff continue to increase the number of collaborative research projects they undertake with external partners – including HIRF, QUT, The University of Queensland and multiple groups within QIMR, as well as researchers from a variety of other institutions both locally, national and internationally as demonstrated in the collaborative project list below.

The number of conference presentations and publications from the department continues to grow each year. Highlights include several publications in high impact journals in 2018, as well as oral presentations by several departmental staff at both national and international meetings.

With a focus over the last few years on encouraging trainees in Medical Oncology to undertake higher degrees, it is exciting to see two recent RBWH medical oncology fellows – Elizabeth Ahern and Rahul Ladwa nearing completion of their PhD and MPhil respectively. In addition, Natasha Roberts, a Medical Oncology research nurse coordinator, will also complete her PhD in early 2019. We congratulate them and look forward to each of them developing their own research programs in oncology in Brisbane in the coming years.

**Supervised Post-Graduate Research Students**

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ali Dulfikar</td>
<td>PhD QUT</td>
<td>Pilot feasibility study of exercise in grade II, III and IV glioma while receiving radiation therapy with or without chemotherapy</td>
<td>Zarnie Lwin, Fiona Naumann, Mark Pinkham, Elizabeth Pinkham, Gabriel Siqueira Trajano</td>
</tr>
<tr>
<td>Dr Elizabeth Ahern</td>
<td>PhD UQ 2015</td>
<td>Targeting RANK/RANKL in combination immunotherapy using murine and translational models of melanoma, prostate and other solid organ malignancies</td>
<td>Mark Smyth, Michele Teng, David Wyld</td>
</tr>
<tr>
<td>Natasha Roberts</td>
<td>PhD QUT 2016-2019</td>
<td>Patient Reported Outcomes in a Medical Oncology Setting</td>
<td>Monika Janda, Kim Alexander, David Wyld</td>
</tr>
<tr>
<td>Dr Rahul Ladwa</td>
<td>MPhil UQ 2017</td>
<td>Predictors of dosimetry and response to peptide receptor radionuclide therapy</td>
<td>David Wyld, Stephen Rose, Nicholas Dowson</td>
</tr>
<tr>
<td>Dr Darshit Thaker</td>
<td>MPhil UQ 2017</td>
<td>Implementation of Comprehensive Geriatric assessment (CGA) for patients older than 70 years in medical oncology clinic to facilitate decision making and provision of supportive management</td>
<td>David Wyld, Sunit Lakhani</td>
</tr>
<tr>
<td>Name</td>
<td>Type of Fellowship</td>
<td>Research Program</td>
<td>University (years)</td>
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<tr>
<td>Dr Anna Kuchel</td>
<td>Research Fellow</td>
<td>Medical Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Annette Cubitt</td>
<td>Manager, Clinical Trials Unit</td>
<td>Clinical Trials Unit Medical Oncology</td>
<td>Queensland Health</td>
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<tr>
<td>Jenny Campbell</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Medical Oncology</td>
<td>Queensland Health</td>
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<tr>
<td>Amy Ives</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Andrea McKenzie</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Wendy Pritchard</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Megan Ward</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Natasha Roberts</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Gel Bolanos</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Diana Lewis</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Andrea Junghans</td>
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<tr>
<td>Leah Hingston</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Jenna Peckston</td>
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<tr>
<td>Jasmine Brady</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Krystal Perera</td>
<td>Clinical Trial Coordinator</td>
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<tr>
<td>Lourdes Pamposa</td>
<td>Clinical Trial Coordinator</td>
<td>Clinical Trials Unit Medical Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Jennifer Lonton</td>
<td>Research Development Officer</td>
<td>Clinical Trials Unit Medical Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Danni Church</td>
<td>Research Administration Officer</td>
<td>Clinical Trials Unit Medical Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Denise Flynn</td>
<td>Research Administration Officer</td>
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</tr>
</tbody>
</table>

**2018 Current RBWH Research Group / Department Led Research Activity**

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natasha Roberts, David Wyld</td>
<td>Alex Broom, Alex Broom, Alex Broom, Alex Broom</td>
<td>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</td>
</tr>
<tr>
<td>Zarnie Lwin</td>
<td>Alex Broom</td>
<td>Cultural biographies, medical knowledges: a sociological study at the intersection of cancer and culture</td>
</tr>
<tr>
<td>Matthew Burge</td>
<td>Euan Walpole</td>
<td>Prospective evaluation of FOLFIRINOX for metastatic or locally advanced Pancreatic Cancer</td>
</tr>
<tr>
<td>Melissa Eastgate</td>
<td>David Wyld, David Wyld, David Wyld, David Wyld</td>
<td>Dietary patterns and preferences/attitudes of cancer patients regarding sources of information about the diet during cancer treatment</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Rahul Ladwa, Paul Klages, Monica Dumbrava, Monica Dumbrava, Monica Dumbrava, Monica Dumbrava, Monica Dumbrava</td>
<td>Dose intensity in adjuvant chemotherapy in women over 65 with breast cancer</td>
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<tr>
<td>Melissa Eastgate</td>
<td>Lindy Jeffree, Kelly McGrath, Shu Fen Lee</td>
<td>Audit of outcomes of melanoma patients undergoing neurosurgery</td>
</tr>
<tr>
<td>Rahul Ladwa</td>
<td>David Wyld, David Burge, David Burge, David Burge, David Burge</td>
<td>Assessing response to Peptide Receptor Radionuclide Therapy in Neuroendocrine Tumours: case series of pseudoprogression</td>
</tr>
<tr>
<td>Aneta Suder, Andrew Schmidt</td>
<td>Brett Hughes, Zarnie Lwin, Michael Allen, Michael Allen, Michael Allen</td>
<td>Exploring the rate of hospital admissions due to immune therapy toxicities in two tertiary cancer centres</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Louisa Gordon, John Leyden, Kate Wakelin, Michael Michael, Nick Pavlakis</td>
<td>F-NET Project: financial Outcomes in people with Neuro-Endocrine Tumours</td>
</tr>
<tr>
<td>Matthew Burge</td>
<td>Paul Thomas, David Wyld, Melissa Eastgate, Stephen Rose, Nick O’Rouke, Davis Cavallucci Richard Bryant</td>
<td>Imaging the CXCR-4 Chemokine receptor with a novel PET tracer in pancreatic cancer</td>
</tr>
<tr>
<td>Research Group/Department</td>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
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<tr>
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</tr>
<tr>
<td>Matthew Burge</td>
<td>Paul Thomas, Andrew Stevenson, <strong>David Wyld</strong> (CCS), Melissa Eastgate, Stephen Rose, David Clark, Craig Harris, Damien Petersen, David Taylor, Carina Chow, Paul Tesar, Michelle Grogan</td>
<td>A pilot study of CXCR-4 PET scanning in operable rectal cancer</td>
</tr>
<tr>
<td>Matthew Burge</td>
<td>Melissa Eastgate, David Wyld, Shu Lee</td>
<td>Analysis of prospectively collected pancreatic cancer patients given folfirinox at RBWH</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Julie Moore, Mark Wan</td>
<td>Neuroendocrine Tumours: Epidemiologic trends in Queensland</td>
</tr>
<tr>
<td>Brett Hughes</td>
<td>Elizabeth Ahern, Bill Dougall, Mark Smyth</td>
<td>Pre-operative evaluation of anti-PD1 checkpoint inhibition (Nivolumab) with RANKL blockade (Denosumab) in patients with operable stage I-IIIA NSCLC</td>
</tr>
<tr>
<td>Natasha Roberts (Cancer Care Services/Queensland University of Technology)</td>
<td>Monika Janda, Kim Alexander, <strong>David Wyld</strong></td>
<td>Patient Reported Outcomes in the Medical Oncology Setting (iPROMOS)</td>
</tr>
<tr>
<td>Melissa Eastgate</td>
<td>Anna Kuchel, David Wyld</td>
<td>Medical Oncology Clinical Activity Review</td>
</tr>
<tr>
<td>David Wyld</td>
<td>David Chan (Sydney), S Singh, A Thawer, C Fingrut, R Yelamanchila (Canada)</td>
<td>Understanding the Barriers to the Development of a Shared Care Model for the Treatment of Patients with Neuroendocrine Tumours (NETs): Optimization of care between NET Speciality Centres and General/Local/Community Oncologist</td>
</tr>
<tr>
<td>Melissa Eastgate</td>
<td>Anna Kuchel</td>
<td>Financial planning concerns in patients with advanced melanoma – a research study into patient and clinician perspectives</td>
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<tr>
<td>David Wyld</td>
<td>Julie Moore, Nancy Tran, Michael Wyld</td>
<td>Neuroendocrine Neoplasms in the Paediatric, Adolescent and Young Adult Population in Queensland, Australia</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Julie Moore, Nancy Tran, Ben Lawrence, Kate Parker, Sharon Pattison</td>
<td>Neuroendocrine neoplasms in the paediatric adolescent and young adult population – comparing New Zealand and Queensland Australia</td>
</tr>
<tr>
<td>Natasha Roberts</td>
<td>Haryana Dhillon, Phillip Parente, Craig Gedye, Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Patient Experience of Participating in a Clinical Trial</td>
</tr>
<tr>
<td>Natasha Roberts</td>
<td>Medical Oncology, Radiation Oncology, Haematology Cancer Care Services, RBWH</td>
<td>Poster Project: a study to describe oncology patient perceptions of research</td>
</tr>
<tr>
<td>Natasha Roberts</td>
<td>Medical Oncology, Cancer Care Services, RBWH</td>
<td>Poster Project: a pilot study to describe medical oncology patient perceptions of research</td>
</tr>
<tr>
<td>Melissa Eastgate</td>
<td>Geoffrey Bryant, <strong>Matthew Burge</strong>, Darshit Thaker, David Wyld</td>
<td>Colorectal cancer patient reported outcomes: putting theory into practice</td>
</tr>
<tr>
<td>Brett Hughes</td>
<td>Martin Batstone, Mark Smyth and Bill Dougall</td>
<td>Expression of novel immune markers in mucosal head and neck squamous cell carcinoma (HNSSC) specimens</td>
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<tr>
<td>Melissa Eastgate, Elizabeth Ahern (Cancer Care Services/Queensland Institute of Medical Research Berghofer)</td>
<td>Ailin Lepetier, Jason Madore, Mark Smyth</td>
<td>Multiplex immunofluorescence assessment of melanoma biopsies and response to immunotherapy</td>
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<tr>
<td>Brett Hughes, Elizabeth Ahern (Cancer Care Services/Queensland Institute of Medical Research Berghofer)</td>
<td>Martin Batstone, Mark Smyth and Bill Dougall</td>
<td>Immune Biomarker Evaluation in Oral Mucosal Squamous Cell Carcinoma: a prospective tissue collection</td>
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<tr>
<td>Clare Senko</td>
<td>Brett Hughes, Zarnie Lwin</td>
<td>Evaluating the prognostic significance of significant weight loss in patients with stage III non-small cell lung cancer undergoing definitive chemoradiation</td>
</tr>
</tbody>
</table>
2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
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<tbody>
<tr>
<td>Matthew Burge</td>
<td>David Wyld, David Pattison, Fiona Paxton-Hall, Kathy You</td>
<td>Outcome and toxicity of salvage therapy with 177 Lu-dotatate in patients with metastatic neuroendocrine tumours</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Julie Moore, Nathan Dunn, Nancy Tran</td>
<td>Small Intestinal Neuroendocrine neoplasms in Qld: 2001-2015. Stage at diagnosis and survival</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

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<tbody>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>INTEGRATE II A Randomised Phase III Double Blind Placebo Controlled Study of regorafenib in Refractory Advanced Gastroesophageal Cancer</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>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)</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>David Wyld (Cancer Care Services)</td>
<td>CONTROL NETS: Phase II multi-arm, randomised open label trial of Lutetium-177 Octreotate peptide receptor radionucleotide therapy, capectabine/temozolamide chemotherapy, or the combination in the first or second line treatment of low to intermediate grade gastroenteropancreatic neuroendocrine tumours</td>
</tr>
<tr>
<td>Walter and Eliza Hall Institute, Colorectal Translational Oncology Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>ctDNA in Pancreatic Cancer</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>DOCTOR: a Randomised Phase II Trial of Pre-Operative Cisplatin, 5 Fluorouracil and Docetaxel or Cisplatin, 5 Fluorouracal, Docetaxel plus Radiotherapy based on poor early response to standard chemotherapy for resectable adenocarcinoma of the oesophagus and/or O6 junction</td>
</tr>
<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>Evaluation of temporal dynamics of RAS Mutation emergence in Cell Free DNA (ctDNA) in response to first-line cetuximab anti-EGFR therapy in Patients with Metastatic Colorectal Cancer</td>
</tr>
<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>ctDNA as a Marker of Complete Pathological Response and Long-Term Outcome for Locally Advanced Rectal Cancer Treated with Pre-operative Chemoradiotherapy</td>
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<tr>
<td>Matthew Burge (Cancer Care Services)</td>
<td>bfDNA in Pancreatic Cancer</td>
<td></td>
</tr>
<tr>
<td>Melbourne, Australia</td>
<td>Melissa Eastgate (Cancer Care Services)</td>
<td>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)</td>
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<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>ctDNA as a Marker of Occult Disease in Stage II Colorectal Cancer and Response to Therapy in Metastatic Colorectal Cancer</td>
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<tr>
<td>Ludwig Institute for Cancer Research</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>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)</td>
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<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Melissa Eastgate (Cancer Care Services)</td>
<td>PETACC6 – preoperative chemoradiotherapy and postoperative chemotherapy with capectabine and oxaliplatin vs. capectabine alone in locally advanced rectal cancer</td>
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<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>MODULATE: modulation of the tumour microenvironment using either vascular disrupting agents or STAT3 inhibition in order to synergise with PD1 inhibition in microsatellite stable, refractory colorectal cancer. (AGITG)</td>
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<tr>
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<td>RBWH Researchers</td>
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<tr>
<td>Australasian Gastrointestinal Trials Group / Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>DYNAMIC-III: Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage III Colon Cancer: A Multicentre Phase II/III Randomised Controlled Study (AGITG, WEHI)</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Alison Hadley (Cancer Care Services)</td>
<td>OUTBACK: a PHASE III trial of adjuvant chemotherapy following chemoradiation as primary treatment for locally advanced cervical cancer compared to chemoradiation alone</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeff Goh (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeff Goh (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeff Goh (Cancer Care Services)</td>
<td>ICON 8: an international trial comparing weekly chemotherapy with 3 weekly chemotherapy for women with ovarian cancer, fallopian tube cancer or primary peritoneal cancer</td>
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<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeff Goh (Cancer Care Services)</td>
<td>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</td>
</tr>
<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>David Wyld (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Aneta Suder (Cancer Care Services)</td>
<td>ENZAMET Trial: a randomised phase 3 trial of enzalutamide in first line androgen deprivation therapy for metastatic prostate cancer</td>
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<tr>
<td>Cooperative Trials Group for Neuro-oncology</td>
<td>Zamie Lwin (Cancer Care Services)</td>
<td>ACED: randomised phase II study of acetazolamide plus dexamethasone versus dexamethasone alone for management of cerebral oedema in recurrent or progressive high-grade gliomas</td>
</tr>
<tr>
<td>Cooperative Trials Group for Neuro-oncology</td>
<td>Zamie Lwin (Cancer Care Services)</td>
<td>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</td>
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<tr>
<td>Cooperative Trials Group for Neuro-oncology</td>
<td>Zamie Lwin (Cancer Care Services)</td>
<td>INTELLIGENCE 2 - ABT-414 alone or ABT-414 plus temozolomide versus lomustine or temozolomide for recurrent glioblastoma: a randomized phase II study of the EORTC Brain Tumor Group</td>
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<tr>
<td>Cooperative Trials Group for Neuro-oncology</td>
<td>Po-Ling Inglis (Cancer Care Services)</td>
<td>CATNON: Phase III trial comparing no adjuvant chemotherapy versus adjuvant therapy until progression for anaplastic glioma without 1p/19q loss. An EORTC/NCI-C/RTDG/MRC/HUB/ intergroup study</td>
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<tr>
<td>Australia New Zealand Breast Cancer Trials Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>PALbociblc 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. PALLAS</td>
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<tr>
<td>Australia New Zealand Breast Cancer Trials Group</td>
<td>Po-Ling Inglis (Cancer Care Services)</td>
<td>Penelope B: Phase III study evaluating palbociclib (PD-0332991), 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</td>
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<tr>
<td>Kathleen Houston, Sunshine Coast Oncology Research Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>TAPS: Gabapentin for taxane acute pain syndrome – a phase III randomised, placebo-controlled, crossover trial</td>
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<tr>
<td>Australia New Zealand Breast Cancer Trials Group/Breast International Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>TEXT-Bone: a substudy of the TEXT trial to evaluate serial bone markers for bone remodeling, serial growth factors, and bone mineral density</td>
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<tr>
<td>Australia New Zealand Breast Cancer Trials Group/Breast International Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>TEXT: a Phase III Trial Evaluating the Role of Exemestane plus GnRH analogue as Adjuvant Therapy for premenopausal women with endocrine responsive breast cancer</td>
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### 2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

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<tr>
<td>Australia New Zealand Breast Cancer Trials Group/Breast International Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>An International multi-centre study of tamoxifen vs. Anastrozole in postmenopausal women with hormone sensitive ductal carcinoma in situ (DCIS) IBIS II</td>
</tr>
<tr>
<td>Australia New Zealand Breast Cancer Trials Group/ECOG-ACrIN</td>
<td>Po-Ling Inglis (Cancer Care Services)</td>
<td>TAILORx Program for the Assessment of Clinical Cancer Tests (PACCT-1): trial Assigning Individualized Options for Treatment: the TAILORx Trial</td>
</tr>
<tr>
<td>Australia New Zealand Breast Cancer Trials Group/Breast International Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>Suppression of Ovarian Function Trial (SOFT) A Phase III Trial Evaluating the Role of Ovarian function Suppression and the Role of Exemestane as Adjuvant therapies for premenopausal women with Endocrine responsive breast cancer</td>
</tr>
<tr>
<td>Australia New Zealand Breast Cancer Trials Group/Breast International Group</td>
<td>Michelle Nottage (Cancer Care Services)</td>
<td>A phase III study to evaluate Letrozole as adjuvant endocrine therapy for postmenopausal women with receptor (ER and/or PgR) positive tumours (BIG-1-98)</td>
</tr>
<tr>
<td>Walter and Eliza Hall Institute</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>Pancreatic cancer: understanding Routine Practice and Lifting End results (PURPLE) A Prospective Pancreatic Cancer clinical registry</td>
</tr>
<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>KEYPAD: proposed phase 2 trial of pembrolizumab and denosumab in advanced clear-cell renal cell carcinoma (cRCC) progressing after a VEGF-TKI</td>
</tr>
<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>UNiSon – anzUp Nivo-&gt;Ipi+Nivo Sequential Non-clear cell – Proposed Phase II Sequential Cohort Trial Of Single Agent Nivolumab, Then Combination Ipilimumab + Nivolumab In Metastatic Or Unresectable Non-Clear Cell Renal</td>
</tr>
<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>TherAP: a randomised phase 2 trial of 177 Lu-PSMA617 theranostic versus cabazitaxel in men with progressive metastatic castration resistant prostate cancer</td>
</tr>
<tr>
<td>Australia New Zealand Urogenital and Prostate Cancer Trials Group</td>
<td>Natasha Roberts (Cancer Care Services)</td>
<td>The Patient Experience of Participating in a Clinical Trial</td>
</tr>
<tr>
<td>Cooperative Trials Group for Neuro-oncology</td>
<td>Zannie Lwin (Cancer Care Services)</td>
<td>NUTMEG: a Randomized Phase II Study of Nivolumab and Temozolomide vs Temozolomide in newly diagnosed Elderly Glioblastoma</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>LIBERATE – phase II study evaluating liquid biopsies to profile metastatic colorectal cancer</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>PIT STUDY: an open label Phase IB/II, non-randomised, dose-escalating, safety, tolerability and pharmacokinetic study of first line Panitumumab, Irinotecan, Trifluridine/tipiracil in RAS wild type patients with metastatic colorectal cancer</td>
</tr>
<tr>
<td>Australasian Gastrointestinal Trials Group</td>
<td>Matthew Burge (Cancer Care Services)</td>
<td>A randomised phase 2 study of Panitumumab monotherapy versus fluoropyrimidine and bevacizumab as first line therapy for RAS wild type metastatic colorectal cancer. (MONARCC study)</td>
</tr>
<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>Phase II clinical trial of the PARP inhibitor, olaparib, in HR-deficient metastatic breast and relapsed ovarian cancer in patients without germline mutations in BRCA1 and BRCA2: the EMBRACE study</td>
</tr>
<tr>
<td>Australia New Zealand Gynaecological Oncology Group/United Kingdom Medical Research Council</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>ICON 9: to assess the efficacy, safety and tolerability of maintenance cediranib in combination with olaparib therapy compared to single agent cediranib maintenance in women with relapsed platinum sensitive ovarian, fallopian tube or primary peritoneal cancer. (ANZGOG/UK MRC)</td>
</tr>
<tr>
<td>Australia New Zealand Gynaecological Oncology Group</td>
<td>Jeffrey Goh (Cancer Care Services)</td>
<td>iPRIME: a phase II study of durvalumab and tremelimumab in combination with carboplatin and paclitaxel, as neoadjuvant treatment for newly diagnosed, advanced high grade serous ovarian cancer (ANZGOG)</td>
</tr>
<tr>
<td>Australia and New Zealand Melanoma Trials Group</td>
<td>Melissa Eastgate (Cancer Care Services)</td>
<td>A Phase Ib/II Trial of Ipilimumab-Nivolub-Denosumab and Nivolub-Denospumab in Patients with Unresectable Stage III and IV Melanoma. (ANZMTG 01.15.) CHARLI</td>
</tr>
<tr>
<td>Australian Lung Cancer Trials Group</td>
<td>Brett Hughes (Cancer Care Services)</td>
<td>NIVORAD – a randomised phase 2 trial of nivolumab and stereotactic ablative body radiotherapy in advanced non-small cell lung cancer, progressing after first or second line chemotherapy</td>
</tr>
<tr>
<td>Australian Lung Cancer Trials Group/European Thoracic Oncology Platform</td>
<td>Brett Hughes (Cancer Care Services)</td>
<td>STIMULI: small cell lung carcinoma trial with nivolumab and Ipilimumab in Limited disease. A randomised open-label phase II trial of consolidation with nivolumab and ipilimumab in limited-stage SCLC after chemo-radiotherapy. (ALTG, ETOP)</td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>------------------------</td>
</tr>
<tr>
<td>Melbourne Health</td>
<td>Alison Hadley (Cancer Care Services)</td>
<td>NOMINATOR: GENOMIC MATCHING TREATMENT FOR RARE CANCERS Feasibility of performing genomic testing of rare cancers to match the cancer to treatment</td>
</tr>
<tr>
<td>QIMR Berghofer Medical Research Institute Bryan Day (QIMR), Rebecca Mercieca-Bebber (University of Sydney)</td>
<td>Po Ling Inglis (Cancer Care Services) Rosalind Jeffree (Neurosurgery)</td>
<td>Novel Therapies for Brain Cancer Quality of life end-points in clinical trials</td>
</tr>
<tr>
<td>Quan Tran, (Cancer Care Services, The Prince Charles Hospital)</td>
<td>Brett Hughes, Zarnie Lwin, Michael Allen (Cancer Care Services)</td>
<td>Identifying perceived barriers to physical activity in patients with lung cancer at two Brisbane-based institutions Exploring the rate of hospital admissions due to immune therapy toxicities in two tertiary cancer centres</td>
</tr>
<tr>
<td>Andrew Schmidt (Cancer Care Services, The Prince Charles Hospital)</td>
<td>Brett Hughes, Zarnie Lwin, Michael Allen (Cancer Care Services)</td>
<td>A multi-institutional retrospective audit of patients with metastatic malignancy treated with nivolumab through the Open Access Scheme at the Princess Alexandra Hospital, the Royal Brisbane and Womens' Hospital, and The Prince Charles Hospital</td>
</tr>
<tr>
<td>Lisa Guccione (PMCC), Penelope Schofield (Swinburne University), Michael Michael (PMCC), Mustafa Khassaw (RNSSH), Timothy Price (TQEH), Nick Pavlakis (RNSSH), Megan Rogers (PMCC), Karla Gough (PMCC), Grace Kong (PMCC), Simone Leyden (Unicorn Foundation), John Leyden (Unicorn Foundation)</td>
<td>David Wyld (Cancer Care Services)</td>
<td>DEFINING NETs – defining the supportive care needs and psychological morbidity of patients with Functioning versus Non-Functioning Neuroendocrine Tumours (NETs) Pilot project to assess liver metastases by comparing novel, dynamic and static functional imaging, and also morphological imaging with standard of care in WHO Grade I and Grade II Neuroendocrine Tumour (NET)</td>
</tr>
<tr>
<td>Claudia Rutherford (Quality of Life Office, University of Sydney)</td>
<td>Natasha Roberts (Cancer Care Services/Queensland University of Technology)</td>
<td>Systematic Review of Quality of Life Measures Peripheral Neuropathy in Chemotherapy-treated Patients: Predictors, Assessment strategies and Functional Outcomes IN FOCUS Study (Identifying Neurological and Functional Outcomes in Cancer Survivors Study)</td>
</tr>
<tr>
<td>University of New South Wales</td>
<td>David Wyld (Cancer Care Services), Robert Henderson (Neurology)</td>
<td>Olivia Newton-John Cancer Research Institute Po-Ling Inglis (Cancer Care Services) A phase I safety and bioimaging trial of KB004 in patients with glioblastoma</td>
</tr>
<tr>
<td>International Society for Quality of Life Amanda Love (Endocrinology), Marianne Elston (NZ), Richard Carroll (NZ), Eva Segelov (Monash)</td>
<td>Natasha Roberts (Cancer Care Services)</td>
<td>Proxy reported patient reported outcomes measures Assessment of hypopituitarism rates following peptide receptor radionuclide therapy for neuroendocrine tumours</td>
</tr>
<tr>
<td>John Clouston, Roger Bain (Medical Imaging)</td>
<td>Melissa Eastgate (Cancer Care Services)</td>
<td>The Metro North Interventional Oncology database: a prospective observational cohort study examining outcomes for interventional oncology procedures</td>
</tr>
<tr>
<td>Sunil Lakhan (University of Queensland), Amy Reed (UQCCR), Christopher Pyke (Mater), Cameron Snell (Mater), Nicole McCarthy (Wesley), Ken O’Byrne (PAH), Valentine Hyland (Pathology), Owen Ung (Surgery), Natasha Woodward (Mater), Euan Walpole (PAH), Peter Simpson (UQ), Stephen Rose (CSIRO), Fares Al-Ejeh (QIMR)</td>
<td>Po-Ling Inglis, Ben Green (Cancer Care Services)</td>
<td>High risk breast cancer genomic sequencing project platform Queensland wide</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claudia Rutherford, Madeleine King, (Quality of life office, University of Sydney)</td>
<td>Natasha Roberts (Cancer Care Services)</td>
<td>Patient reported outcomes in clinical practice</td>
</tr>
<tr>
<td>Patsy Yates (Palliative Care)</td>
<td>David Wyld (Cancer Care Services), Kimberly Alexander, Christine Miaskowski, Raymond Chan, Alexandra McCarthy, Steven McPhail, Helen Skerman</td>
<td>A Sequential Multiple Assignment Randomised Trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brett Hughes</td>
<td>Best oral presentation</td>
<td>CCS Research Retreat 8 November 2018</td>
</tr>
<tr>
<td>David Wyld</td>
<td>Best of the best gastrointestinal abstract</td>
<td>COSA 45th Annual Scientific Meeting 13-15 November 2018</td>
</tr>
<tr>
<td>Zarnie Lwin</td>
<td>2018 Most Outstanding Poster Presentation</td>
<td>Cooperative Trials Group for Neuro-Oncology 11th Annual Scientific Meeting 7-9 October 2018 Brisbane.</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patsy Yates</strong>, Kimberly Alexander, Christine Miaskowski, Raymond Chan, Alexandra McCarthy, Steven McPhail, David Wyld, Helen Skerman</td>
<td>Medical Oncology</td>
<td>A sequential multiple assignment randomised trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy</td>
<td>NHMRC APP1129532</td>
<td>$178,355</td>
<td>$713,418.20 (2017-2020)</td>
</tr>
<tr>
<td>Alex Broom, Emma Kirby, Renata Kokanovic; Jonathan Adams; Zarnie Lwin; David Wyld; Eng-Siew Koh; Paul de Souza; Lisa Woodland</td>
<td>Medical Oncology</td>
<td>Cultural Biographies, Medical Knowledges: a sociological study</td>
<td>Australian Research Council Linkage Grant</td>
<td>$342,320</td>
<td>$210,000 (ARC contribution) + $816,962 cash/in-kind partner contributions (2016-2018)</td>
</tr>
<tr>
<td>Matthew Burge, Paul Thomas, David Wyld, Stephen Rose, Melissa Eastgate, Nick O’Rourke</td>
<td>Medical Oncology</td>
<td>A study to look at a new way of detecting the spread of pancreas cancer</td>
<td>Herston Imaging Research Facility Seed Funding</td>
<td>$58,014</td>
<td>$58,014 (2018)</td>
</tr>
<tr>
<td>Matthew Burge</td>
<td>Medical Oncology</td>
<td>MONARCC Study: a randomised Phase 2 study of panitumumab monotherapy versus panitumumab and 5 Fluorouracil as first line treatment for RAS and RAF wild type metastatic colorectal cancer (mCRC)</td>
<td>Australian Gastro-Intestinal Group Innovation Fund</td>
<td>$33,333</td>
<td>$100,000 (2017-2019)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Oncology Clinical Trials Unit</td>
<td>Medical Oncology</td>
<td>Clinical Trials Data Management Grant</td>
<td>Queensland Cancer Fund</td>
<td>$54,000</td>
<td>$54,000 (2018)</td>
</tr>
<tr>
<td>Melissa Eastgate, David Wyld, Matthew Burge, Vicki Whitehall</td>
<td>Medical Oncology</td>
<td>Genomic landscape of BRAF mutant colorectal cancers</td>
<td>RBWH Diamond Cancer Care Grant 2017</td>
<td>$18,000</td>
<td>$36,000 (2017-2018)</td>
</tr>
<tr>
<td>Manoj Bhatt (Nuc Med), David Wyld (CCS), Matthew Burge (CCS), Rahul Ladwa (CCS), Peter Garcia (Nuc Med), David Pattison (Nuc Med), Kevin Lee (Nuc Med), Samuel Kyle, Nicholas Dowson, Jye Smith (Nuc Med), Steven Goodman, Stephen Rose</td>
<td>Nuclear Medicine, Medical Oncology, Herston Imaging Research Facility</td>
<td>Pilot project to assess liver metastases by comparing novel, dynamic and static functional imaging, and also morphological imaging with standard of care in WHO Grade I and Grade II Neuroendocrine Tumour (NET)</td>
<td>Herston Imaging Research Facility Seed Funding</td>
<td>$19,250</td>
<td>$38,500 (2017-2018)</td>
</tr>
<tr>
<td>David Wyld (CCS), Gillian Nasato (CCS)</td>
<td>Medical Oncology</td>
<td>RBWH neuroendocrine tumour Nurse Coordinator</td>
<td>Ipsen Pty Ltd Aust</td>
<td>$22,500</td>
<td>$45,000 (2017-2018)</td>
</tr>
<tr>
<td>Brett Hughes, Elizabeth Ahern, Bill Dougall, Mark Smyth</td>
<td>Medical Oncology</td>
<td>Pre-operative evaluation of anti-PD1 checkpoint inhibition (Nivolumab) with RANKL blockadex (Denosumab) in patients with operable stage I-IIIA NSCLC</td>
<td>Amgen</td>
<td>$470,185</td>
<td>$940,370 (697,000 US$) (2018-2019)</td>
</tr>
<tr>
<td>Natasha Roberts (CCS/QUT)</td>
<td>Medical Oncology</td>
<td>Patient Reported Outcomes in a Medical Oncology Setting</td>
<td>Royal Brisbane and Women's Hospital Scholarship</td>
<td>$36,864</td>
<td>$36,863.96 (2018)</td>
</tr>
<tr>
<td>Geoff Bryant, Melissa Eastgate, David Wyld, Matt Burge</td>
<td>Medical Oncology</td>
<td>Structured symptom reporting for patients with colorectal cancer undergoing chemotherapy</td>
<td>Metro North Hospital and Health Service SEED Grant</td>
<td>$63,385</td>
<td>$126,770 (2018 – 2019)</td>
</tr>
<tr>
<td>Andrew Scott, Anna Nowak, Hui Ganet, Zarnie Lwin et al</td>
<td>Medical Oncology</td>
<td>The role of FET-PET in glioblastoma</td>
<td>2018 Medical Research Future Fund Grant</td>
<td>$1,520,000</td>
<td>$1,520,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles


Hughes BGM.

Radiotherapy for cutaneous head and neck cancer and parotid tumours: a prospective investigation of treatment-related acute

Doi: 10.1097/MPA.0000000000000960


Doi: 10.1111/ajco.12844


Hughes B


Horn L, Mandon M, Prider D, M Fraser J. Journal Articles (cont)
Journal Articles (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
8. Lwin Z. Travelling with Cancer. Grand rounds, Royal Brisbane and Women’s Hospital. 2018 Brisbane, Australia.

Oral Presentations:
Oral Presentations: (cont):


31. Roberts N. Early insights into implementing patient reported outcomes measures (PROMs) into a busy healthcare setting 27th Annual RBWH Healthcare Symposium 2018. Brisbane, Australia


34. Suder A. Overview of bladder cancer. Brisbane Cancer Care Conference 2018. Brisbane, Australia


Poster Presentations:


Poster Presentations (cont):


37. Lwin Z, Kirby E. I'm the handbrake…. the role of informal carers in glioma. Co-operative Trials Group of Neuro-oncology Annual Scientific Meeting 2018. Brisbane, Australia


42. Pavlakis N, Grosso F, Steele N, Nowak AK, Verbeke S, Popat S, Greililler L, Reck M, John T, Taylor N, Leigh NB, Ceresoli GL, Sorensen JB, Planchard D, Hughes BGM, Mazieres J, Socinski M, Buchner H, Barnucco J, Scagliotti GV. Association between progression-free survival (PFS) rate (PFSR) and overall survival (OS) in LUME-Meso, a study of nintedanib (N) + pemetrexed/cisplatin (PEM/CIS) vs placebo (P) + PEM/CIS in chemotherapy-naive patients with malignant pleural mesothelioma (MPM). American Society of Clinical Oncology Annual Conference 2018. Chicago, USA

43. Popat S, Grosso F, Steele N, Nowak AK, Novello S, Greililler L, Reck M, John T, Taylor N, Leigh NB, Ceresoli GL, Sorensen JB, Pavlakis N, Planchard D, Hughes BGM, Mazieres J, Socinski M, von Wangenheim U, Barnucco J, Norsli N, Scagliotti GV. Tumor burden (TB), treatment exposure (TE) and adverse events (AEs) in the combination and monotherapy phases of LUME-Meso, a study of nintedanib (N)/placebo (P) + pemetrexed/cisplatin (PEM/CIS) followed by maintenance with N or P in chemotherapy-naive patients (pts) with malignant pleural mesothelioma (MPM). American Society of Clinical Oncology Annual Conference 2018. Chicago, USA


Poster Presentations (cont):

47. Roberts NA, Janda M, Alexander K, Wyld D. Describing patient Outcomes measures (PROMs) Knowledge for the Multi-Disciplinary Team. 20th World Congress of Psycho-Oncology 2018. Hong Kong


54. Wyld D, Burge M, Dumbrava M, Callum J, Neale R, Beesley V. How the Rare See Their Care: Perceptions of Care and Patient Reported Outcomes in People Living with Neuroendocrine Tumours. 2nd Victorian Cancer Survivorship Conference 2018. Melbourne, Australia


57. Wyld D, Moore J, Tran N, Wyld M. Neuroendocrine Neoplasms in the Paediatric, Adolescent and Young Adult Population in Queensland, Australia. The Australasian Gastro-Intestinal Trials Group Annual Scientific Meeting 2018. Brisbane, Australia


Other Communications and Outputs:

Journal Abstracts:

Press Programme:

Research Exhibition Event:
The culture of inter-disciplinary collaboration and technology to advance research remains strong for radiation oncology in 2018. The regular Research Core Group meeting helps guide the interests and co-ordinate medical, radiation therapist, physics and nursing streams. 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.

Physics and radiation therapy lead most of the investigator-initiated technical studies, with the supervision of higher degrees.

Our department collaborates with several national and international trial groups, including the Tran-Tasman Radiation Oncology Group, Australian Lung Trial Group, Australian and New Zealand Urogenital and Prostate trials group. For some studies with those groups, there is a requirement for independent QA for patient accrual, and our department has been able to meet those standards.

As new and emerging technologies are rapidly being assimilated into daily practice, the focus of research outcomes is to implement new technology in a scientific manner. Quality assurance and research into new technology is important to ensure, precision radiotherapy is delivered in a safe, efficient and cost-effective manner. Our department has expanded surface guided radiotherapy and has expanded deformable registration for the planning and dosimetry review situations.

The radiation oncology team has been successful in securing grants to proceed with several studies through the Herston Imaging and Research Facility and several projects are progressing through the implementation phase. Radiation Oncology has also been successful in obtaining grants though the Herston Biofabrication Institute to expand 3-D printing in the field of radiation oncology in a research framework.

Radiation Oncology was instrumental in developing a research trials database to record research activity. This database has revolutionised the generation of research reports, facilitates centralised storage of data and has been expanded to include all sections of Cancer Care Services.

### Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trent Aland</td>
<td>PhD, QUT</td>
<td>(2013-2019)</td>
<td>Quality assurance of complex radiotherapy treatments</td>
<td>Tanya Kain, Jamie Trapp</td>
</tr>
<tr>
<td>Diana Binny</td>
<td>PhD, QUT</td>
<td>(2015-2019)</td>
<td>Optimizing patient plan deliveries by characterizing treatment planning systems in radiotherapy</td>
<td>Scott Crowe, Tanya Kain, Jamie Trapp</td>
</tr>
<tr>
<td>Georgia Brown</td>
<td>MSc, QUT</td>
<td>(2017-2018)</td>
<td>Dosimetric impact of gating of modulated breast radiotherapy using an optical surface monitoring system</td>
<td>Scott Crowe, Tanya Kain, Steven Sylvander</td>
</tr>
<tr>
<td>Athreya Sherma Buddhavarapu</td>
<td>MSc, QUT</td>
<td>(2018)</td>
<td>Characterising the performance of the PerFraction patient-specific QA system</td>
<td>Scott Crowe, Francis Gibbons</td>
</tr>
<tr>
<td>Naasiha Cassim</td>
<td>MSc, QUT</td>
<td>(2017-2018)</td>
<td>Dosimetric plan quality for treatments of multiple brain metastases</td>
<td>Scott Crowe, Tanya Kain, Mark West, Yurissa Ikeda</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students  

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joanna Kapeleris</td>
<td>PhD, QUT (2018-2020)</td>
<td></td>
<td>Circulating tumour cells</td>
<td>Chamindie Punyadeera, Lizbeth Kenny</td>
</tr>
<tr>
<td>Dr Timothy Liu</td>
<td>MPhil</td>
<td></td>
<td>Oral Squamous Cell Carcinoma with intermediate risk factors</td>
<td>Martin Batstone, Benjamin Chua</td>
</tr>
<tr>
<td>Johnny Morales</td>
<td>PhD, QUT (2011-2018)</td>
<td></td>
<td>Independent Monte Carlo analysis for stereotactic radiosurgery treatments</td>
<td>Scott Crowe, Jamie Trapp</td>
</tr>
<tr>
<td>Samuel Peet</td>
<td>PhD, QUT (2018-ongoing)</td>
<td></td>
<td>Out-of-field dose in contemporary radiation therapy</td>
<td>Scott Crowe, Tanya Kairn, Jamie Trapp</td>
</tr>
<tr>
<td>James Rijken</td>
<td>PhD, QUT (2018-ongoing)</td>
<td></td>
<td>Dosimetric accuracy for SABR spine radiotherapy treatments</td>
<td>Scott Crowe, Tanya Kairn, Jamie Trapp, Konstantin Momot</td>
</tr>
<tr>
<td>Sanphat Sangudsup</td>
<td>PhD, QUT (2018-ongoing)</td>
<td></td>
<td>Dosimetric impact of interplay effects on FFF VMAT by gel measurements</td>
<td>Scott Crowe, Jamie Trapp, Andrew Fielding</td>
</tr>
<tr>
<td>Emma Whittle</td>
<td>MSc, QUT (2018-ongoing)</td>
<td></td>
<td>Measurement of tissue-phantom ratios in small radiotherapy fields</td>
<td>Scott Crowe, Tanya Kairn, Shadi Khoei, Emma Spelleken</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Crowe</td>
<td>Adjunct Associate Professor</td>
<td>School of Chemistry, Physics and Mechanical Engineering</td>
<td>QUT (2015 – current)</td>
</tr>
<tr>
<td>Allison Dry</td>
<td>RT R&amp;D Co-ordinator</td>
<td>Radiation Therapy</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Jennifer Edmunds</td>
<td>Clinical Trial Co-ordinator</td>
<td>Radiation Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Catriona Hargrave</td>
<td>State-wide RT Research Fellow, Joint appointment with QUT (School of Clinical Sciences, Faculty of Health)</td>
<td>Radiation Oncology / Radiation Therapy</td>
<td>QUT</td>
</tr>
<tr>
<td>Tanya Kairn</td>
<td>Adjunct Associate Professor</td>
<td>School of Chemistry, Physics &amp; Mechanical Engineering</td>
<td>QUT (2013 – current)</td>
</tr>
<tr>
<td>Jacqui Keller</td>
<td>Manager, Clinical Trials</td>
<td>Radiation Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Trang Le</td>
<td>Clinical Trial Co-ordinator</td>
<td>Radiation Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Rob McDowall</td>
<td>Radiation Therapist Consultant</td>
<td>Radiation Oncology / Radiation Therapy</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Charmaine Micklewright</td>
<td>Research Assistant</td>
<td>Radiation Oncology</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Michelle Ralston</td>
<td>Advanced Radiation Therapist</td>
<td>Radiation Oncology / Radiation Therapy</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Lee Tripcony</td>
<td>Principal Scientist Statistics</td>
<td>Radiation Oncology / Statistics</td>
<td>Queensland Health</td>
</tr>
<tr>
<td>Christopher Walsh</td>
<td>RT R&amp;D Co-ordinator</td>
<td>Radiation Therapy</td>
<td>Queensland Health</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rae Blades / Ray Chan</td>
<td>Melissa Doolan</td>
<td>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</td>
</tr>
<tr>
<td>Dr Philip Chan</td>
<td>Paul Thomas (HIRF), Robyn Cheuk, Michelle Grogan, Graeme Dickie</td>
<td>Prognostic Value of Assessing Hypoxia in Tumours Using 18FMIOSO PET During a Course of Radiation Therapy – Proof of Concept Study</td>
</tr>
<tr>
<td>Dr Ben Chua</td>
<td>Zarnie Lwin, Bryan Day (QIMR)</td>
<td>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</td>
</tr>
<tr>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
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</tr>
<tr>
<td>Dr Ben Chua, Tristan Shaw</td>
<td>Diagnostic performance of 18-fluorodeoxyglucose positron emission tomography (FDG-PET) in evaluation of glioma</td>
<td></td>
</tr>
<tr>
<td>Jemma Blyth, Elena Blyth, Gregory Rattray, Catriona Hargrave, Lisa Nissin, Julie Barber</td>
<td>DIBH (Deep Inspiration Breath Hold)-BREaST Trial. Breath Hold Respiratory Endurance &amp; Spirometry Training</td>
<td></td>
</tr>
<tr>
<td>Philip Chan, Rachael Wilks</td>
<td>Pulse Dose Rate Brachytherapy for cervix cancer, Royal Brisbane and Women's Hospital review</td>
<td></td>
</tr>
<tr>
<td>Catriona Hargrave, Jemma Blyth, Elena Blyth, Gene Blow (RBWH Cultural Capability Officer), Judy Graham (Ca. Council Qld, Gold Coast), Anna Gordon (Ca. Council Qld. Greater Brisbane)</td>
<td>Improving access to Culturally Safe Care in Radiotherapy for Indigenous Patients</td>
<td></td>
</tr>
<tr>
<td>Catriona Hargrave</td>
<td>Retrospective evaluation of cardiac reduction between free-breathing (FB) and Deep Inspiration Breath Hold (DIBH) radiation therapy for left-sided breast cancer patients</td>
<td></td>
</tr>
<tr>
<td>Michael Fay (NMH), Jennifer Martin (UON), Paul Thomas (HIRF), Stephen Rose (CSIRO), Nicholas Dowson (CSIRO)</td>
<td>Evaluation of the role of valproate in the treatment of high grade glioma</td>
<td></td>
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<tr>
<td>Scott Crowe, Craig Lancaster, Rachael Wilks, Nancy Yu</td>
<td>Review of optically stimulated luminescence dosimeter measurements from total skin electron radiotherapy treatments</td>
<td></td>
</tr>
<tr>
<td>Scott Crowe, Rachael Wilks, Liting Yu, Craig Lancaster</td>
<td>Retrospective review of optically stimulated luminescence dosimeters from total skin electron radiotherapy treatments</td>
<td></td>
</tr>
<tr>
<td>Sarju Vasani (RBWH)</td>
<td>A Pilot Study of CXCR4 PET for nodal staging of resectable mucosal head and neck Squamous cell carcinoma (HNSCC), including correlation with histopathology immunohistochemistry, sputum and Circulating Tumour Cells</td>
<td></td>
</tr>
<tr>
<td>Ben Chua, Liz Kenny, Michelle Nottage, Brett Hughes, Michele Teng, Paul Thomas</td>
<td>A prospective study investigating the efficacy and toxicity of definitive chemo-radiation and immunotherapy (CRIO) in locally and/or regionally advanced cutaneous squamous cell carcinoma</td>
<td></td>
</tr>
<tr>
<td>Charles Lin, Megan Carroll, Ryan Somerville, Sarah Grigg</td>
<td>Carcinoma of Head and Neck with Perineural spread: Outcomes After Skull Base Surgery and Adjuvant Radiotherapy</td>
<td></td>
</tr>
<tr>
<td>Darren Cassidy, Kirby Francis</td>
<td>Developing a Monte Carlo quality assurance check system for radiotherapy</td>
<td></td>
</tr>
<tr>
<td>Dr Cathy Hargrave, Allison Dry, Jemma Devereaux</td>
<td>What anatomical sites will benefit most from contrast-enhanced computed tomography in Radiation Therapy Planning? A review of current literature and standards of practice</td>
<td></td>
</tr>
<tr>
<td>Scott Crowe, Rachael Wilks, Tanya Kairn</td>
<td>Evaluation of metal artefact reduction algorithms for radiotherapy</td>
<td></td>
</tr>
<tr>
<td>Dr Cathy Hargrave, Allison Dry</td>
<td>Literature review and potential dosimetric impacts of metal artefact reduction methods for radiation therapy CT planning scans</td>
<td></td>
</tr>
<tr>
<td>Jemma Blyth, Michelle Grogan, Allison Dry, Catriona Hargrave</td>
<td>Retrospective Evaluation of breast seroma changes during radiation therapy &amp; the dosimetric benefits of performing a repeat CT scan</td>
<td></td>
</tr>
<tr>
<td>Alex Livingstone, Kirby Francis</td>
<td>Comparison of Deformable and Rigid Image Registration of PETCT for Head and Neck patients in the MIM Maestro System</td>
<td></td>
</tr>
<tr>
<td>Scott Crowe, Kirby Francis, Orrie Dancewicz (Nuc. Med), Tanya Kairn, Timothy Markwell (Mater Centre), Jamie Trapp (QUT)</td>
<td>Applications of 3D printing in radiation oncology medical physics</td>
<td></td>
</tr>
<tr>
<td>Dr Cathy Hargrave, Allison Dry</td>
<td>Retrospective analysis of Catalyst reference image and radiographically defined radiotherapy treatment isocentres</td>
<td></td>
</tr>
<tr>
<td>Scott Crowe, Tanya Kairn, Kirby Francis</td>
<td>Novel quality assurance metrics for radiotherapy dose verification measurements</td>
<td></td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>------------------------</td>
</tr>
<tr>
<td>Prof Stephen Ackland, (Calvary Mater Newcastle Hospital)</td>
<td>Mathew Burge (CCS MO), Graeme Dickie (CCS DRO)</td>
<td>A randomised, placebo-controlled phase II trial of simvastatin in addition to standard chemotherapy and radiation in preoperative treatment for rectal cancer (SPAR)</td>
</tr>
<tr>
<td>Prof Sherene Loi (PMCC)</td>
<td>Robyn Cheuk (CCS DRO)</td>
<td>TROG 17.05 A randomised phase II trial comparing the efficacy of single fraction or multi-fraction SABR (Stereotactic ablative body radiotherapy) with AteZolizumab in patients with advanced Triple nEgative breast Cancer (AZTEC)</td>
</tr>
<tr>
<td>Michael D. Jenkinson PhD (University of Liverpool)</td>
<td>Catherine Bettington (CCS DRO)</td>
<td>ROAM – TROG 15.02 Radiation versus Observation following surgical resection of Atypical Meningioma: a randomised controlled trial</td>
</tr>
<tr>
<td>Dr Arjun Sahgal (CCTG)</td>
<td>Ben Chua (CCS DRO)</td>
<td>SC24: TD 17.06A Phase III Randomized Feasibility Study Comparing Stereotactic Body Radiotherapy (SBRT) Versus Conventional Palliative Radiotherapy (CRT) For Patients With Spinal Metastases – S Siva and M Foote</td>
</tr>
<tr>
<td>Jamie Trapp (QUT)</td>
<td>Scott Crowe (CCS DRO)</td>
<td>Development of three-dimensional gel dosimetry solutions for radiation therapy</td>
</tr>
<tr>
<td>Jamie Trapp (QUT)</td>
<td>Scott Crowe (CCS DRO)</td>
<td>Investigation of issues surrounding small field dosimetry in radiation therapy</td>
</tr>
<tr>
<td>Jamie Trapp (QUT)</td>
<td>Scott Crowe (CCS DRO)</td>
<td>Evaluating dosimetry near non-water equivalent implants and prostheses</td>
</tr>
<tr>
<td>Vincent Grégoire (EDRRC)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>NIMORAL – TROG 16.03 (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</td>
</tr>
<tr>
<td>Danny Rischin (PMCC)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>HPV - TROG 1.201 A randomised trial of Weekly Cetuximab And Radiation Versus Weekly Cisplatin and Radiation in Good Prognosis Locoregionally Advanced HPV-Associated Oropharyngeal Squamous Cell Carcinoma</td>
</tr>
<tr>
<td>Chamindey Punyadeera (QUT)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>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</td>
</tr>
<tr>
<td>Prof Rajiv Khanna (QMR)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>P2191 Development of an Adoptive T Cell Therapy for HPV-Associated Malignancies</td>
</tr>
<tr>
<td>Chamindey Punyadeera (QUT)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>JNJ Saliva Study Developing an Oral Rinse Method to Detect Human Papillomavirus</td>
</tr>
<tr>
<td>David Pryor</td>
<td>Charles Lin (CCS DRO)</td>
<td>TROG 16.03: a multi stage multi centre international randomised trial of Conventional Care or Radioablation (stereotactic body radiotherapy) for Extra-cranial oligometastatic disease in lung, breast and prostate cancer (CORE)</td>
</tr>
<tr>
<td>Shankar Siva</td>
<td>Charles Lin (CCS DRO)</td>
<td>TROG 15.03 Focal Ablative Stereotactic Radisurgery for Cancers of the Kidney – a Phase II Clinical Trial (FASTRACK II)</td>
</tr>
<tr>
<td>Shankar Siva</td>
<td>Catherine Bettington (CCS DRO)</td>
<td>TROG 13.01 Stereotactic Ablative Fractionated Radiotherapy versus Radiosurgery for Oligometastatic Neoplasia to the Lung: a Randomised Phase II Trial (SAFRON II)</td>
</tr>
<tr>
<td>Scott Williams and Paul Nguyen (NHMRC)</td>
<td>Philip Chan (CCS DRO)</td>
<td>ENZARAD Randomised phase 3 trial of enzalutamide in androgen deprivation therapy with radiation therapy for high risk, clinically localised, prostate cancer</td>
</tr>
<tr>
<td>Kumar Gogna (RO Mater)</td>
<td>Catherine Bettington (CCS DRO)</td>
<td>SPLIT COURSE A single arm, prospective Phase II study of Split-Course Pelvic Radiotherapy for Locally Progressive, Castrate Resistant Prostate Cancer</td>
</tr>
<tr>
<td>Margot Lehman (PAH)</td>
<td>Philip Chan (CCS DRO)</td>
<td>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</td>
</tr>
<tr>
<td>Peter Graham (SGH)</td>
<td>Robyn Cheuk (CCS DRO)</td>
<td>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)</td>
</tr>
<tr>
<td>Boon Chua (PMCC)</td>
<td>Liz Kenny (CCS DRO)</td>
<td>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</td>
</tr>
<tr>
<td>L. Mileshkin (PMCC)</td>
<td>Robyn Cheuk (CCS DRO)</td>
<td>PORTEC – 3 – TROG 08.04 ANZOGO A Randomised phase III trial comparing concurrent chemoradiation and adjuvant chemotherapy with pelvic radiation alone in high risk and advanced stage endometrial carcinoma.</td>
</tr>
<tr>
<td>Maria Pearse (Auckland City Hospital)</td>
<td>Charles Lin (CCS DRO)</td>
<td>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</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Poulsen (RO Mater)</td>
<td>Graeme Dickie (CCS DRO)</td>
<td>MP3 – TROG 09.03 A Phase II Efficacy Study of Chemo-radiotherapy in PET Stage II and III Merkel Cell Carcinoma of the Skin</td>
</tr>
<tr>
<td>Gail Ryan (PMCC)</td>
<td>Roger Allison (CCS DRO)</td>
<td>TROG 06.01 Primary chemotherapy with Temozolomide vs. Radiotherapy in patients with Low Grade Gliomas after stratification for genetic 1P loss: a phase III Study</td>
</tr>
<tr>
<td>Australasian Lung Cancer Trials Group</td>
<td>Brett Hughes (CCS), Phillip Chan (CCS)</td>
<td>NIVORAD – a randomised phase 2 trial of nivolumab and stereotactic ablative body radiotherapy in advanced non-small cell lung cancer, progressing after first or second line chemotherapy</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rae Blades</td>
<td>Scholarship</td>
<td>2018 Research Postgraduate Scholarship – RBWH Foundation</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Scott Crowe (CI), Dr. Graeme Dickie, Dr. Philip Chan, Dr. Catherine Bettington, Lee Heseltine, Steven Sylvander, A/Prof Tanya Kain</td>
<td>CCS DRO</td>
<td>Improving radiation oncology via the application of 3D printing</td>
<td>MNHHS Program (Clinical / Research) for the Herston Biofabrication Institute</td>
<td>$158,000</td>
<td>$474,500 (2018-2021)</td>
</tr>
<tr>
<td>Charles Lin</td>
<td>CCS DRO</td>
<td>A prospective study investigating the efficacy and toxicity of definitive chemoradiotherapy and immunotherapy (CROI) in locally and/or regionally advanced cutaneous squamous cell carcinoma</td>
<td>Astra Zeneca</td>
<td>$52,750</td>
<td>$211,000.15 (2017-2021)</td>
</tr>
<tr>
<td>Chamindie Punyadeera, Liz Kenny, Ken O’Byrne, Erik Thompson, Steve Mattarollo, Arutha Kulasinghe</td>
<td>CCS DRO</td>
<td>Circulating Tumour Cells as Biomarkers to Identify Head and Neck Cancer Patients For PD1 Therapy</td>
<td>Translational Research Unit (TRI) Spore Grant</td>
<td>$40,000</td>
<td>$80,000 (2017-2018)</td>
</tr>
<tr>
<td>Steven Sylvander</td>
<td>CCS DRO (Medical Physics)</td>
<td>Catalyst optical surface monitoring system</td>
<td>New Technology Grant</td>
<td>$22,000</td>
<td>$72,000 (2017-2018)</td>
</tr>
<tr>
<td>Graeme Dickie</td>
<td>CCS DRO</td>
<td>QCOG Cancer Clinical Trial Data Manager Grant</td>
<td>Queensland Clinical Oncology Group</td>
<td>$68,000</td>
<td>$68,000 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lizabeth Kenny</td>
<td>Radiation Oncology</td>
<td>CXCR4 PET for nodal staging of resectable mucosal head and neck squamous cell carcinoma (HNSCC)</td>
<td>HIRF seed research funding</td>
<td>$28,008.75</td>
<td>$56,017.50 (2017-2019)</td>
</tr>
</tbody>
</table>
**Journal Articles (cont):**


**Book Chapters / Letters:**


**2018 Conference Presentations – Invited Speaker, Oral and Poster**

**Invited Speaker:**

1. Kairn T. Sharing clinical medical physics work via the scientific literature. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October, 2018


5. Kenny L. Oration at UQ School of Medicine, Brisbane, Australia. December 2018


7. Kenny, L. IO or SBRT: When and where. European Congress of Interventional Oncology (ECIO) Vienna, Austria, April 2018

8. Kenny, L. SABR, Conventional Radiotherapy or nothing at all – which choice when. European Congress of Interventional Oncology (ECIO) Vienna, Austria, April 2018


**Oral Presentations:**


3. Chua B, Dowthwaite S, Panizza B, O’neill J, Porceddu S, Jackson J. Primary trans-oral surgery and risk adapted radiotherapy for early tonsillar SCC. ANZHNC ISMR Joint Meeting to be held in Melbourne, Australia, 26-28 July 2018

4. Crowe S. The performance of metal artefact reduction algorithms, in comparison to Megavoltage CT imaging. Accuray Symposium, Brisbane Australia, May 2018

5. Crowe SB, Dick A, Livingstone A, Kairn T, Sylvander SR. Observations made while commissioning a WOmed T300 superfi cial unit using ACPSEM working group recommendations. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018

6. Crowe SB, Sylvander S, Kairn T. Radiotherapy dose measurements using a fluorescing quinine solution. World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

7. Crowe SB, Whittle E, Jones C, Kairn T. Measurement of tissue-maximum ratio and percentage depth-dose profiles in small fields. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018


10. Dickie G. How do you assess an optimal plan? Accuray Symposium, Brisbane Australia, May 2018

11. Dry A. TSETS: Total Skin Electron Therapy: RBWH Experience, Qld. Continuing Education Committee (CEC), Russell Strong Auditorium, PAH, 21 July 2018
Oral Presentations: (cont):


14. Dry A. Overview of Radiotherapy. CIRCS Supporting the Cancer Patient with their oral health forum, Brisbane Australia, June 2018


16. Grant T (SPP). Improving access to Culturally Safe Care in Radiotherapy for Indigenous Patients: Where Are We Now? Qld Continuing Education Committee (CEC), Grab Your Soapbox. Princess Alexandra Hospital, 10 November 2018

17. Grant T, Nguyen H. Generating the abscopal effect with Radiation Therapy and checkpoint inhibitor immunotherapy. ASMIRT, Canberra, 15 March 2018

18. Kairn T, Crowe SB, Peet SC. Linac leakage dose received by patients treated using non-coplanar radiotherapy beams. World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

19. Kairn T. Suitability of vendor-recommended small field output factors in a post-TRS-483 world. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018

20. Kairn T, Yu L, Wilks R, Lancaster C, Crowe SB. In vivo measurements of skin dose from total skin electron therapy treatments. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018


22. Meaghan J (SPP). Contrast-Enhanced CT and Dual-Energy CT for Radiotherapy Patients, Qld Continuing Education Committee (CEC), Grab Your Soapbox, Princess Alexandra Hospital, 10 November 2018


24. Miller K (SPP). Quality Improvement Project Investigating Potential Dosimetric Impacts of Metal Artefact Reduction Methods, Qld Continuing Education Committee (CEC), Grab Your Soapbox, Princess Alexandra Hospital, 10 November 2018

25. Lancaster C. Level III audits of TomoTherapy systems. Accuray Symposium, Brisbane Australia, May 2018

26. Lathouras M. Is TomoTherapy a viable option for treating Breast Cancer? Accuray Symposium, Brisbane Australia, May 2018

27. McCoola B. Improving Outcomes in Radiation Therapy: Proven Practices in paediatrics applied to other patient groups. CAHRI, Shining Lights Symposium, Brisbane Australia, June 2018

28. McCoola B. AYA (Adolescent and Young Adults) You Can Centre (Sony Foundation). State-wide Research and Development Radiation Therapy Video Conference, 9 July 2018

29. Milewski C, Peet SC, Sylvander SR, Crowe SB, Kairn T. Optimising a radiotherapy optical surface monitoring system to account for the effects of patient skin contour and skin colour. World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

30. Milewski C, Wilks R, Kairn T, Crowe S. The performance of metal artefact reduction algorithms, in comparison to megavoltage CT imaging. Accuray Symposium, Sofitel Brisbane Central, Brisbane, Australia, June 2018

31. Pagidas A. Radiation Therapy for Nasopharyngeal Carcinoma using Accuray TomoTherapy at the Royal Brisbane and Women’s Hospital. Accuray Symposium, Brisbane Australia, May 2018


33. Rattray G. Now and Then: a review of the impact of introducing Tomotherapy at RBWH. Accuray Symposium, Brisbane Australia, May 2018

34. Rijken J, Kairn T, Crowe S, Trapp J. Optimal treatment planning conditions for SBRT of spinal and lung tumours. Asia-Oceania Congress of Medical Physics, Kuala Lumpur, Malaysia, 2018

35. Shanker M, Chua B, Pinkham M, Bettington C. Re-irradiation in recurrent high grade gliomas: an analysis of survival and radionecrosis outcomes. ESTRO, Barcelona Spain, April 2018


37. Sylvander S. Evaluating foetal dose in TomoTherapy treatments. Accuray Symposium, Brisbane Australia, May 2018


39. Truong H (SPP). It’s What’s on the Surface That Counts Qld Continuing Education Committee (CEC), Grab Your Soapbox, Princess Alexandra Hospital, 10 November 2018

40. Walsh C. Catalyst Surface Guided Radiation Therapy vs Image Guided Radiation Therapy for breast patients, CEC Breast Seminar. PH Russell Strong Auditorium, 24 March 2018

41. Walsh C. Catalyst: Surface Guided Radiotherapy for DIBH Breast Treatments. RBWH Symposium, RBWH Education Centre 10-13 September 2018

42. Yu L, Kairn T, Crowe SB. Retrospective audit of patient specific quality assurance results obtained using helical diode arrays, World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018.
Poster Presentations:


2. Crowe SB, Kairn T. Calibration seed sampling for iodine-125 prostate brachytherapy. World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

3. Kairn T, Crowe SB. Application of data mining to clinical protocol design: Are breath-hold techniques beneficial for prone breast radiotherapy patients? (ePoster), World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

4. Kairn T, Crowe SB. Development of an experience-based end-to-end test. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018

5. Kairn T, Crowe SB. Producing inserts for a commercial motion phantom using 3D printing. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018

6. Kairn T, Ikeda Y, Schlect D, Crowe SB. Retrospective review of brain dose from stereotactic radiosurgery treatments of brain oligometastases. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018

7. Kairn T, Peet SC, Yu L, Crowe SB. Long-term reliability of optically stimulated luminescence dosimeters (ePoster), World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018

8. Kairn T, Stephens H, Crowe SB, Peet S. Optically stimulated luminescence dosimeters as an alternative to radiographic film for performing head-wrap linac leakage measurements (ePoster), World Congress on Medical Physics and Biomedical Engineering, Prague, Czech Republic, June 2018


11. Whittle E, Crowe S, Khoel S, Spelleken E, Kairn T. Conversion of PDDs to TMRs for small radiotherapy fields. Engineering and Physical Sciences in Medicine, Adelaide, Australia, October 2018


Other Communications and Outputs:

‘Cancer Preceptorship for Primary Health Care Providers’, 21st July 2018. A Dry; C Walsh; J Devereaux; D Bryant; M Lathouras; J Outhwaite; K Miller; J Meaghan; H Truong.

Catalyst article in Cancer Care News: J Blyth.
The Queensland Haemophilia Centre (QHC) has a strong focus on collaborative research, both with other departments within RBWH and with Haemophilia Centres nationally through the framework of the Australian Haemophilia Centre Directors Organisation (AHCDO). The QHC is also actively involved in global pharmaceutical sponsored multicentre clinical trials examining novel haemophilia therapies.

In 2018, we were an active site in a multicentre phase 3 randomised trial evaluating a longer acting intravenous factor VIII therapy (Adynovate) and a multicentre phase 3 study evaluating the efficacy of a factor VIII mimetic (Emicizumab) given via monthly subcutaneous injection.

QHC staff contributed data and wrote the manuscript for the national study of factor VIII and factor IX prophylaxis in severe and moderate haemophilia A and B, an AHCDO collaborative project which represented the first major publication to come out of the Australian Bleeding Disorders Registry (ABDR).

We completed a retrospective study evaluating our local “fixed dose subcutaneous DDAVP” protocol for patients with mild Haemophilia A. This project demonstrated adequate factor VIII responses for this administration protocol. These local data were shared with the AHCDO group and have led to the commencement of a national collaborative multi-site project comparing DDAVP responses to fixed subcutaneous DDAVP dosing to historic intravenous protocols (aimed to be completed in early 2019).

The QHC established an “Acquired Haemophilia A” state wide working group and entered detailed clinical data in the Australian Bleeding Disorders Registry (ABDR) for all patients in QLD with Acquired Haemophilia A diagnosed over the previous 5-year period. This case series is one of the largest of its kind and provided important insight into the demographic, clinical features and patient outcomes of this very rare and challenging disease.

The QHC participated in a collaborative project lead by the RBWH Orthopaedic Department which was published in July 2018 and demonstrated a good functional outcome and high patient satisfaction in total hip and knee arthroplasty procedures in Haemophilia patients carried out at RBWH over a 20-year period with use of our local haemostatic protocols. These data are useful to effectively counsel our patients with haemophilic arthropathy of the risks, benefits and likely functional outcome of these major orthopaedic procedures.

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Mason</td>
<td>Stewart Hunt, John Casey, Joel Collins, Jason Conn, Joshua Richmond, Tzu Yang Wang, Matthew Hourigan, Anthony Mills, Jane Royle</td>
<td>Acquired Haemophilia A: 5 years of Queensland experience</td>
</tr>
<tr>
<td>Jane Mason</td>
<td>Beryl Zeissink, Alex Connolly, Simon McRae, Jacoba von Wielligh, John Rowell</td>
<td>Does a fixed “single vial” dose of 15 micrograms of subcutaneous desmopressin (SC-DDAVP) produce adequate biologic responses for persons with mild haemophilia A?</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor: Hoffmann-La Roche</td>
<td>John Rowell, Beryl Zeissink, Jane Mason, Alex Connolly</td>
<td>A Study to Evaluate the Efficacy, Safety, Pharmacokinetics, and Pharmacodynamics of Emicizumab Given Every 4 Weeks in Participants With Hemophilia A (HAVEN 4)</td>
</tr>
<tr>
<td>Sponsor: Shire</td>
<td>John Rowell, Beryl Zeissink, Jane Mason, Alex Connolly</td>
<td>Phase 3, Prospective, Randomized, Multi-center Clinical Study Comparing the Safety and Efficacy of BAX 855 Following PK-guided Prophylaxis Targeting Two Different FVIII Trough Levels in Subjects With Severe Hemophilia A</td>
</tr>
</tbody>
</table>

2018 Research Publications

**Journal Articles:**


2018 Conference Presentations – Invited Speaker, Oral and Poster

**Invited Speaker:**

Allied Health Professions have continued to lead and actively contribute to Cancer Care Services research in 2018. Our program of research is diverse, incorporating multidisciplinary teams within the streams of Radiation Oncology, Medical Oncology, Haematology/BMT. Our research has continued to be patient-focused, covering the continuum of survivorship from pre-treatment, during treatment, recovery and rehabilitation, and beyond. Examining outcomes through a patient, carer, and health service lens, we have developed and evaluated new and innovative practices and service delivery models delivering improved patient care and service benefits.

During 2018, we have continued to maintain and develop new research collaborations within RBWH, Queensland Health and external departments incorporating leading academic and clinical research centres across Australia. Our research has been funded through grants and scholarships from RBWH Foundation and Allied Health Practitioner Research Scheme and key achievements for this year include prizes to Claire Blake (Leadership in Education), Laura Moroney (CAHRLI New Researcher Award), and Dr Clare Burns and Speech Pathology Led Telehealth Service (Metro North Research Excellence Award).

Finally, Allied Health Professions have demonstrated their ongoing commitment to building research capacity and capability throughout 2018 with senior staff actively supporting and supervising a growing number of research higher degree students. As many of these students are also RBWH clinical staff, it enables opportunity for direct translation of these research outcomes within Cancer Care Services.

### Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emilie Croisier</td>
<td>PhD, UQ (2018-2021)</td>
<td></td>
<td>Nutritional outcomes of gynaecology patients undergoing pelvic radiotherapy: understanding the patient experience and dietary recommendations for symptom management</td>
<td>Judy Bauer, Teresa Brown</td>
</tr>
<tr>
<td>Joanne Hiatt</td>
<td>PhD, UQ (2017-2023)</td>
<td></td>
<td>Nutrition throughout head and neck cancer treatment: patient experience and adherence, barriers and enablers to enteral feeding recommendations</td>
<td>Merrilyn Banks, Teresa Brown, Judy Bauer</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>PhD, UQ (2015-2019)</td>
<td></td>
<td>Investigating nutrition support during allogeneic stem cell transplantation</td>
<td>Judy Bauer, Merrilyn Banks, Olivia Wright</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>PhD, UQ (2015-2019)</td>
<td></td>
<td>Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy</td>
<td>Liz Ward, Jane Crombie, Clare Burns</td>
</tr>
<tr>
<td>Sarah Wilson</td>
<td>MPhil, UQ (2018-2022)</td>
<td></td>
<td>Assessment of dysphagia following laryngectomy</td>
<td>Bena Cartmili, Clare Burns</td>
</tr>
<tr>
<td>Jasmine Foley</td>
<td>PhD, UQ (2018-2021)</td>
<td></td>
<td>A statewide model for enhanced access to speech pathology specialist outpatient services for patients following head and neck cancer care</td>
<td>Liz Ward, Clare Burns, Rebecca Nund, Laurelie Wall</td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teresa Brown</td>
<td>Research Coordinator, Associate Lecturer</td>
<td>Nutrition in cancer care</td>
<td>University of Queensland (2018-current)</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Honorary Lecturer</td>
<td>School of Health and Rehabilitation Sciences</td>
<td>University of Queensland (2017-current)</td>
</tr>
<tr>
<td>Maree Grier</td>
<td>Adjunct Lecturer</td>
<td>School of Psychology</td>
<td>University of Queensland (2018-current)</td>
</tr>
<tr>
<td>RBWH Research Group/Department Lead Researchers</td>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Robyn Scheer</td>
<td>Nicole Andrews, Erin Molloy</td>
<td>The effect of limb position on leg circumference measurements in patients diagnosed with lower limb lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Robyn Scheer</td>
<td></td>
<td>The Lymphoedema Arm Measurement Study – Winter vs Summer</td>
<td></td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Teresa Brown, Rainbow Lai (UQ), Laura Moroney (SP), Jennifer Helios (SP), Brett Hughes (Cancer Care), Liz Kenny (Cancer Care), Anita Pelecanos (QIMR), Judy Bauer (UQ)</td>
<td>Nutrition outcomes and toxicities from tomotherapy in head and neck cancer patients</td>
<td></td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Teresa Brown, Laura Moroney (SP), Jennifer Helios (SP), Brett Hughes (Cancer Care), Liz Kenny (Cancer Care), Anita Pelecanos (QIMR)</td>
<td>Enteral Nutrition outcomes and toxicities from tomotherapy in head and neck cancer patients</td>
<td></td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Merrilynn Banks, Mark Appleyard (Gastroenterology)</td>
<td>Cost effectiveness of Dietitian-led PEG service</td>
<td></td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Teresa Brown</td>
<td>Evaluation of pre-treatment model of care in patients with head and neck cancer</td>
<td></td>
</tr>
<tr>
<td>Claire Blake</td>
<td>Elisse Treleaven, Ally di Bella, Teresa Brown, Adrienne Young, Jenni Leutenegger (Cancer Care), David Wyld (Cancer Care)</td>
<td>Implementation of patient-led malnutrition screening in the cancer care ambulatory setting</td>
<td></td>
</tr>
<tr>
<td>Joanne Hiatt</td>
<td>Teresa Brown, Merrilynn Banks, Judy Bauer (UQ)</td>
<td>Patient Experience of Nutrition Care across three treatment modalities for the management of head and neck cancer</td>
<td></td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrilynn Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Does early proactive enteral nutrition improve outcomes post allogeneic stem cell transplantation – a randomized comparison to standard care</td>
<td></td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrilynn Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Investigating the effect of enteral and parenteral nutrition on the gastrointestinal microbiome post allogeneic transplantation</td>
<td></td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrilynn Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Staff perceptions, barriers and enablers to enteral feeding during allogeneic stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Merrilynn Banks, Glen Kennedy (Cancer Care), Teresa Brown, Nicholas Weber (Cancer Care), Judy Bauer (UQ)</td>
<td>Nutrition support during allogeneic transplantation in Australian adult bone marrow transplantation units</td>
<td></td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Madison Jefferis (UQ), Cameron Curley (Cancer Care), Teresa Brown, Judy Bauer (UQ)</td>
<td>Investigating the effect of malnutrition on clinical outcomes post allogeneic stem cell transplantation</td>
<td></td>
</tr>
<tr>
<td>Teresa Brown</td>
<td>Aaron Chan (UQ), Kathleen Dwyer, Merrilynn Banks, Brett Hughes (Cancer Care), Judy Bauer (UQ), Charles Lin (Cancer Care), Liz Kenny (Cancer Care), Jane Crombie (Speech Path), Ann-Louise Spurgin (Speech Path)</td>
<td>Revalidation of swallow and nutrition guidelines in tomotherapy</td>
<td></td>
</tr>
<tr>
<td>Teresa Brown</td>
<td>Ray Chan (PAH), Angela Byrnes, Rebecca Fichera, Alex Molassiotis (Hong Kong), Patsy Yates (QUT), Gillian Nasato (Cancer Care), Elise Button (Cancer Care), Andrea Marshall (Griffith), Liz Isenring (Bond University), David Wyld (Cancer Care), Melissa Eastgate (Cancer Care) Nicole Gavin (Cancer Care)</td>
<td>A patient-family-centred intervention to promote nutrition in advanced cancer patients: a pilot randomised controlled trial</td>
<td></td>
</tr>
<tr>
<td>Teresa Brown</td>
<td>Louise Cooney (PAH), Louise Elvin-Walsh (PAH), Eliza Kern, Suzie Ahern, David Smith (QIMR), Liz Kenny (Cancer Care), Brett Hughes (Cancer Care), Sandro Porceddu (PAH), Ingrid Hickman (PAH), Bena Cartmill (PAH)</td>
<td>Comparison of nutrition and clinical outcomes in H&amp;N cancer patients following reactive and proactive nutrition support approaches</td>
<td></td>
</tr>
<tr>
<td>Emilie Croisier</td>
<td>Teresa Brown, Judy Bauer (UQ), Philip Chan (Cancer Care), Jeff Goh (Cancer Care), Alice Grigg (Cancer Care)</td>
<td>Retrospective observational cohort study to assess the clinical and nutritional outcomes of gynae- oncology patients undergoing pelvic radiotherapy</td>
<td></td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Elizabeth Ward (UQ), Jane Crombie, Jennifer Helios, Clare Burns, Ann-Louise Spurgin, Liz Kenny Brett Hughes (Cancer Care), Clare Blake</td>
<td>Dysphagia and related toxicities in head and neck patients undergoing Helical Intensity Modulated Radiotherapy (H-IMRT) +/- chemotherapy</td>
<td></td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Laura Moroney, Jennifer Helios, Elizabeth Ward (UQ), Jane Crombie, Anita Pelecanos (QIMR), Clare Burns, Ann-Louise Spurgin, Clare Blake, Liz Kenny (Cancer Care), Ben Chua, Brett Hughes (Cancer Care), Tracy Comans (UQ)</td>
<td>Implementation of the Head and Neck Cancer Low Risk Speech Pathology Pathway</td>
<td></td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clare Burns</td>
<td>Implementation of a telepractice service providing specialist swallowing, nutrition, and communication intervention for patients with head and neck cancer</td>
</tr>
<tr>
<td>Leonie Naumann</td>
<td>A telehealth model for education and monitoring of early lymphoedema detection and shoulder dysfunction in patients after breast cancer surgery: a pilot cohort study</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Judy Bauer (UQ)</td>
<td>Teresa Brown, Merrilyn Banks, Brett Hughes (Cancer Care), Charles Lin (Cancer care), Liz Kenny (Cancer Care), Louise Campbell (Qld PET Service)</td>
<td>Comparison of body composition methods in head and neck cancer patients undergoing chemoradiotherapy – PET-CT vs BIA</td>
</tr>
<tr>
<td>Melissa Eastgate (Cancer Care)</td>
<td>Shu Fen Lee (Cancer Care), David Wyld (Cancer Care), Teresa Brown</td>
<td>Patient perceptions of diet and cancer – survey of cancer care patients</td>
</tr>
<tr>
<td>Nicole Gavin (Cancer Care)</td>
<td>Glen Kennedy (Cancer Care), David Patterson (Infectious Diseases), Claire Rickard (Griffith Uni), Sarah Andersen, Elise Button (Cancer Care), Rebecca Lippiatt (Cancer Care)</td>
<td>Exploring changes in gastrointestinal tract microbiome and their influence on mucosal barrier injury laboratory confirmed bloodstream infection in patients diagnosed with high risk features of acute myeloid leukaemia</td>
</tr>
<tr>
<td>Nicole Gavin (Cancer Care)</td>
<td>Glen Kennedy (Cancer Care), Claire Rickard (Griffith Uni), Patrick Harris (UQ), Sarah Andersen, Elise Button (Cancer Care), Rebecca Lippiatt (Cancer Care)</td>
<td>Improving central-line associated bloodstream infection diagnosis in malignant haematology patients with parenteral nutrition (Improving CLABSI Trial)</td>
</tr>
<tr>
<td>Nicole Kiss (Deakin University)</td>
<td>Anna Boltong (Cancer Council), Merran Findlay (RPA), Belinda Steer (Peter Mac), Jenelle Loeliger (Peter Mac), Teresa Brown, Liz Isonring (Bond), Judy Bauer (UQ)</td>
<td>Australian cancer clinician’s awareness, perceptions and practices regarding to cancer-related malnutrition and sarcopenia</td>
</tr>
<tr>
<td>Haryana Dhillon (University of Sydney), Joanne Shaw (University of Sydney), David Kissane (Monash University), Danette Langbecker (UQ), Kim Hobbs (Westmead Hospital), Laura Kirsten (Nepean Cancer Care Centre), Lisa Beatty (Flinders Centre for Innovation in Cancer), Lisa Vaccaro (University of Sydney), Carrie Leithborg (St Vincent’s Hospital, Melbourne)</td>
<td>Maree Grier</td>
<td>Adjustment Working Group for the PoCoG Transforming Psychosocial Care of Patients in Australia: Implementation of a Comprehensive Training and Service Delivery Program</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Blake</td>
<td>Leadership in Education</td>
<td>CAHRLI, 20th June 2018</td>
</tr>
<tr>
<td>Shu Fen Lee, Melissa Eastgate, David Wyld, Teresa Brown</td>
<td>Best poster</td>
<td>2nd Victorian Cancer Survivorship Conference, 8-9th February, Melbourne</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>The National Foundation of Swallowing Disorders Award</td>
<td>Dysphagia Research Society, Annual Scientific Meeting, 17th March 2018</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Research Translation Award</td>
<td>Queensland Health Speech Pathology Advisory Committee Annual Awards September 2018</td>
</tr>
<tr>
<td>Clare Burns and Speech Pathology Led Telehealth Team</td>
<td>Highly Commended – Health Service and Implementation Research</td>
<td>MNHHS Research Excellence Awards, 22nd May 2018</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>CAHRLI New Researcher Award</td>
<td>CAHRLI Symposium, 20th June 2018</td>
</tr>
</tbody>
</table>
### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Blake, Ally di Bella, Teresa Brown, Adrienne Young, Jenni Leutenegger (Cancer Care), David Wyld (Cancer Care)</td>
<td>Nutrition and Dietetics; Cancer Care</td>
<td>Implementation of patient-led malnutrition screening in the cancer care ambulatory setting</td>
<td>RBWH Foundation Diamond Grant</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Ray Chan (Cancer Care), Alex Molassiotis (Hong Kong), Patsy Yates (QUT), Gillian Nasato (Cancer Care), Teresa Brown, Elise Button (Cancer Care), Andrea Marshall (Griffith), Liz Isenring (Bond University), David Wyld (Cancer Care), Melissa Eastgate (Cancer Care) Nicole Gavin (Cancer Care)</td>
<td>Cancer Care Services, Nutrition and Dietetics</td>
<td>A patient-family-centred intervention to promote nutrition in advanced cancer patients: a pilot randomised controlled trial</td>
<td>RBWH Foundation Diamond Care Grant</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Nutrition and Dietetics</td>
<td>Does early proactive enteral nutrition improve outcomes post allogeneic stem cell transplantation – a randomized comparison to standard care</td>
<td>RBWH Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
<tr>
<td>Sarah Andersen</td>
<td>Nutrition and Dietetics</td>
<td>Energy expenditure in patients undergoing allogeneic stem cell transplant: are we feeding them enough?</td>
<td>RBWH PPTF Research and Training Capital Funding Grant</td>
<td>$39,167</td>
<td>$39,167 (2018)</td>
</tr>
<tr>
<td>Clare Burns</td>
<td>Speech Pathology, Nutrition and Dietetics, and Cancer Care</td>
<td>Implementation and evaluation of a telespeech service providing specialist speech pathology and nutrition and dietetics intervention for patients with head and neck cancer</td>
<td>Post-Doctoral Fellowship Grant - RBWH Research Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Laura Moroney</td>
<td>Speech Pathology and Cancer Care</td>
<td>Dysphagia outcomes in head and neck cancer patients undergoing tomotherapy</td>
<td>RBWH Foundation PhD Scholarship</td>
<td>$36,864</td>
<td>$36,864 (2018)</td>
</tr>
</tbody>
</table>

### 2018 Research Publications

#### Journal Articles:


4. **Burns C** & Wall L. Using telepractice to support the management of Head and Neck Cancer: key considerations for speech-language pathology service planning, establishment, and evaluation. Perspectives of the ASHA Special Interest Groups, (2018) 2(13), 139-146. doi:10.1044/persp2.SIG13-139
Journal Articles (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:
2. Fox, S. It’s a strange thing to say, that a disease like this could be empowering: a qualitative study of head and neck cancer survivors. University of Queensland Social Work Research and Practices Day Program, June 2018

Poster Presentations:
2. Lee SF, Eastgate M, Wylde D, Brown T. Dietary patterns and attitudes in cancer survivors. 2nd Victorian Cancer Survivorship Conference, February 2018
CRITICAL CARE AND CLINICAL SUPPORT SERVICES
The RBWH Critical Care and Clinical Support Service team recognise the importance of research as a critical cornerstone to clinical excellence. The team embodies this principle with enthusiasm, a heartfelt passion and a sense of pride of place on the national and international research stage. The 2018 report demonstrates commitment from the entire team to advancing healthcare through research.

In 2018, as in previous years, our research team have been recognised for their work, by their peers and others within MNHHS, their partner organisation and by national expert panels and beyond. Our Critical Care and Clinical Support Services researchers hold pride of place amongst the world’s most highly cited research and scientific thought leaders. Our researchers’ work, trials and publications have, and continue to, influence the way clinical medicine is practiced nationally and across the world.

The Critical Care and Clinical Support Services team recognise that a focus on partnering and collaboration increases the capacity and capability for research and each and every service describes their partnerships within the 2018 report. Our team of clinicians and researchers are well published in their specialty areas in peer reviewed journals, text books and beyond. This report highlights their work and achievements over 2018. They, and I, are extremely proud of their achievements.
Emergency and Trauma Centre

The Emergency and Trauma Centre’s wide-ranging program of departmental and collaborative research activities continued throughout 2018. The year was notable for the development of new and exciting collaborative partnerships with external institutions that focus on novel research questions with potentially transformational outcomes.

We were very pleased to see substantial growth in emergency nurse-led research activities as well as research collaborations with pharmacy and allied health during the year. This was demonstrated by the development of several nurse-led projects and grant applications, good representation by nurses at local and national conferences, and the enrolment of two of our nurses in research higher degrees.

Congratulations go to Dr James Hughes, who completed his PhD on the treatment of pain in emergency departments, and to Dr Jaimi Greenslade for being awarded an Advance Queensland Fellowship. Congratulations also to Professor Louise Cullen, whose influential research into the use of biomarkers in the diagnosis of chest pain and her broader contributions to clinical research were recognised in the receipt of the Chief Executive’s Award at the 2018 MNHHS Research Excellence Awards and a “Citation of the Branch” from AMA, Queensland.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wahid Allihaibi</td>
<td>PhD, QUT (2015-2018)</td>
<td>A New Approach to Optimise Hospital Emergency and Inpatient Operations</td>
<td>Michael Cholette, Azharul Karim, John Burke</td>
</tr>
<tr>
<td>Kazi Ahsan</td>
<td>PhD, QUT (2014-2018)</td>
<td>Lean integrated optimisation model of emergency department for improved patient flow</td>
<td>Azharul Karim, Gerard Fitzgerald, Michael Cholette, John Burke, Doug Morel</td>
</tr>
<tr>
<td>Michael Chen</td>
<td>MEpi, UQ (2016-18)</td>
<td>Outcomes of patients with abdominal pain in the emergency department</td>
<td>Melinda Protani (UQ), Kevin Chu</td>
</tr>
<tr>
<td>Daniel Lancini</td>
<td>PhD, UQ (2016-2020)</td>
<td>Atrial fibrillation in hospitalised patients</td>
<td>Louise Cullen, Paul Martin</td>
</tr>
<tr>
<td>Laura Foran</td>
<td>MPhil, QUT (2017-2019)</td>
<td>Clinical presentation characteristics of Aboriginal and Torres Strait Islander patients presenting to an Emergency Department with suspected Acute Coronary Syndrome</td>
<td>Louise Cullen</td>
</tr>
<tr>
<td>Siegfried Perez</td>
<td>PhD, UQ (2016-2020)</td>
<td>Data Extraction from Electronic Health Records for a Chest Pain Clinical Data Registry</td>
<td>Louise Cullen, Jaimi Greenslade</td>
</tr>
<tr>
<td>Laura Scott</td>
<td>MPhil, UQ (2018-2020)</td>
<td>Long term outcomes for patients undergoing accelerated chest pain assessment strategies</td>
<td>Louise Cullen, Jaimi Greenslade</td>
</tr>
<tr>
<td>Min Yan Chen</td>
<td>MN, QUT (2016-2018)</td>
<td>Comparing time to first analgesic medication between cognitively impaired and non-cognitively impaired elderly patients with pain in the emergency department</td>
<td>James Hughes</td>
</tr>
<tr>
<td>Elizabeth Doran</td>
<td>MPhil, UQ (2018-2022)</td>
<td>ED pharmacists extended scope of practice</td>
<td>Louise Cullen</td>
</tr>
<tr>
<td>Brandon Allwood</td>
<td>MPhil, QUT (2018-2021)</td>
<td>Improving patient’s pain through a standardised nurse-initiated medication regime</td>
<td>Fiona Coyer, James Hughes</td>
</tr>
</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venkat Acholi</td>
<td>Emergency Physiotherapist</td>
<td>Physiotherapy defined scope of practice (prescribing)</td>
<td>UQ (2012 – current)</td>
</tr>
<tr>
<td>Daniel Bodnar</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2012 – current)</td>
</tr>
<tr>
<td>Anthony Brown</td>
<td>Professor of Emergency Medicine</td>
<td>Faculty of Medicine, Discipline of Anaesthesiology and Critical Care</td>
<td>UQ (2009 – current)</td>
</tr>
<tr>
<td></td>
<td>Adjunct Professor</td>
<td>School of Public Health and Social Work</td>
<td>QUT (2009 – current)</td>
</tr>
<tr>
<td>Nathan Brown</td>
<td>Honorary Senior Lecturer</td>
<td>Faculty of Medicine, Discipline of Anaesthesiology and Critical Care</td>
<td>UQ (2016 – current)</td>
</tr>
<tr>
<td>Julia Brownlie</td>
<td>Nurse Practitioner</td>
<td>Emergency nurse practitioner in early pregnancy</td>
<td></td>
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<tr>
<td>John Burke</td>
<td>Adjunct Associate Professor</td>
<td>School of Public Health and Social Work</td>
<td>QUT (2016 – current)</td>
</tr>
<tr>
<td>Kevin Chu</td>
<td>Adjunct Associate Professor</td>
<td>Faculty of Medicine</td>
<td>UQ (2011 – current)</td>
</tr>
<tr>
<td></td>
<td>Adjunct Associate Professor</td>
<td>School of Public Health and Social Work</td>
<td>QUT (2009 – current)</td>
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<tr>
<td>Louise Cullen</td>
<td>Adjunct Professor</td>
<td>Faculty of Health</td>
<td>QUT (2016 – current)</td>
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<tr>
<td>Jaimi Greenslade</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>UQ (2015 – current)</td>
</tr>
<tr>
<td></td>
<td>Adjunct Associate Professor</td>
<td>School of Public Health and Social Work</td>
<td>QUT (2012 – current)</td>
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<tr>
<td>Janelle Heine</td>
<td>Emergency Physiotherapist</td>
<td>Physiotherapy defined scope of practice (prescribing)</td>
<td></td>
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<tr>
<td>James Hughes</td>
<td>Conjoint Senior Nursing Research Fellow</td>
<td>Faculty of Nursing</td>
<td>QUT (2017 – current)</td>
</tr>
<tr>
<td>Catherine Hurn</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2008 – current)</td>
</tr>
<tr>
<td>Trent Lipp</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2014 – current)</td>
</tr>
<tr>
<td>Bill Lukin</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2008 – current)</td>
</tr>
<tr>
<td>Alexandra Markwell</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2012 – current)</td>
</tr>
<tr>
<td>Duncan McAuley</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2012 – current)</td>
</tr>
<tr>
<td>Kylie Mueller</td>
<td>Research Assistant</td>
<td>Medication-related emergency department presentations</td>
<td>2018</td>
</tr>
<tr>
<td>Philip Richardson</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2001 – current)</td>
</tr>
<tr>
<td>David Rosengren</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2006 – current)</td>
</tr>
<tr>
<td>Sean Rothwell</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2006 – current)</td>
</tr>
<tr>
<td>Rina Savage</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2017 – current)</td>
</tr>
<tr>
<td>Frances Williamson</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2012 – current)</td>
</tr>
<tr>
<td>Matilda Schmidt</td>
<td>Adjunct Lecturer</td>
<td>School of Paramedicine</td>
<td>QUT (2017 – current)</td>
</tr>
<tr>
<td>Brandon Allwood</td>
<td>Adjunct Lecturer</td>
<td>School of Nursing and Midwifery</td>
<td>Griffith University (2018 – current)</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sonia Osborne (QUT), Anthony Bell (The Wesley Hospital), Neil Cottrell (UQ), Ian Coombes (Pharmacy), Louise Cullen (ETC), David Brain (QUT)</td>
<td>Evaluation of clinical pharmacist medication review in ED and its impact on hospital length of stay for admitted older medical patients</td>
</tr>
<tr>
<td>James Hughes (ETC), Kim Lai (ETC), Julia Brownlie (ETC), Amy Arnold (Women's and Newborn Services)</td>
<td>Identifying the Usage and Appropriateness of Anti-D Immunoglobulin in the Pregnant Female Presenting to the Emergency Department</td>
</tr>
<tr>
<td>Judith Bellapart (DICM), Craig Winter (Neurosurgery), Rosalind Jeffree (Neurosurgery), Jeffrey Lipman (DICM), Jacobus Ungerer (Pathology Qld), Anita Pelecanos (QIMR Berghofer), Anthony Brown (ETC), Nathan Brown (ETC)</td>
<td>Timing of lumbar puncture for the detection of xanthochromia in suspected subarachnoid haemorrhage</td>
</tr>
<tr>
<td>Louise Cullen (ETC), William Parsonage (RBWH Cardiology), Nicholas Graves (QUT), Siegfried Perez (Logan Hospital), Fran Kinneir (TPCH), Christian Hamilton-Craig (TPCH), Niranjan Gaikwad (TPCH), Tracey Hawkins (ETC)</td>
<td>Limit of detection in the emergency department (LEGEND) trial: a pre-post intervention trial of a clinical decision rule to rule out acute myocardial infarction</td>
</tr>
</tbody>
</table>
2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group/Department</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louise Cullen</td>
<td>William Parsonage (Cardiology)</td>
<td>Basel Syncope Evaluation Study (Basel IX)</td>
</tr>
<tr>
<td>Louise Cullen</td>
<td>Jaimi Greenslade (ETC), William Parsonage (Cardiology), Adam Scott (Cardiology), Jacobus Ungerer (Pathology Queensland), Tracey Hawkins (ETC), Gerben Keijzers (GCUH), Julia Crilly (Griffith University), Nicholas Graves (QUT), Ariel Ho (UQ)</td>
<td>Examining translation of research into improved assessment for heart attack</td>
</tr>
<tr>
<td>Louise Cullen</td>
<td>John Fraser, Kiran Shekar, Liam Byrne, Obonyo Nchfatso, Connie Boon, Louise See Ho, Margaret Passmore, Kathryn Maitland</td>
<td>Too much of a good thing: Does fluid resuscitation worsen septic shock?</td>
</tr>
<tr>
<td>Louise Cullen</td>
<td>Tracey Hawkins (ETC), Jaimi Greenslade (ETC)</td>
<td>Cannulation rates in the Emergency Department intervention trial</td>
</tr>
<tr>
<td>Philip Richardson</td>
<td>Elizabeth Doran (Pharmacy), Kevin Chu (ETC), Jaimi Greenslade (ETC)</td>
<td>Medication and Fluid orders in the Emergency Department; examining the incidence of error and adverse events</td>
</tr>
<tr>
<td>Alexandra Markwell</td>
<td>Tegwen Howell (ETC), Carol Windsor (QUT), Anthony Bell (ETC), Kevin Chu (ETC), Angela O’Malia (Social Work)</td>
<td>Describing the experiences of social workers in a tertiary ED</td>
</tr>
<tr>
<td>Kevin Chu</td>
<td>Carol Winsor (QUT), Tegwen Howell (ETC)</td>
<td>Understanding the variability in the diagnostic approach to subarachnoid haemorrhage: a qualitative study</td>
</tr>
<tr>
<td>John Burke</td>
<td>Gerald Fitzgerald (QUT)</td>
<td>Four-hour rule project – validation and impact of the four hour rule in the ED: a large data linkage study</td>
</tr>
<tr>
<td>Julian Williams</td>
<td>David Paterson (Infectious Diseases Unit), Graeme Nimmo (Microbiology), Jaimi Greenslade (ETC), Katherine Doucet, Kevin Chu (ETC), Jeffrey Lipman (ICU), Anthony Brown (ETC)</td>
<td>Identifying risk factors for MRSA</td>
</tr>
<tr>
<td>Daniel Bodnar</td>
<td>Emma Bosley (QAS), Stephen Rashford (QAS), Mark Shirran (GCUH), Catherine Hurn (ETC), Matthew Meister, Glenn Ryan (PAH)</td>
<td>Queensland pre-hospital study identifying which trauma patients are at risk of bleeding to death</td>
</tr>
<tr>
<td>Daniel Bodnar</td>
<td>Zoe Stevens (UQ), Stephen Rashford (QAS), Michael Handy (Trauma Service), Sue Williams (RBWH Blood Bank)</td>
<td>A retrospective, observational study examining the coagulation, full blood count and blood gas profiles for trauma patients receiving pre-hospital packed red blood cell transfusions</td>
</tr>
<tr>
<td>Rina Savage</td>
<td>Taylor Kline, Caitlin Lock, Champika Pattullo, Anthony Bell</td>
<td>Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study</td>
</tr>
<tr>
<td>Kevin Chu</td>
<td>Anthony Nguyen (Australian eHealth Research Centre, CSIRO)</td>
<td>Preventing missed diagnoses through automated reconciliation of ED medical records</td>
</tr>
<tr>
<td>Tina Moriarty</td>
<td>Kevin Chu (ETC), Daniel Bodnar (ETC)</td>
<td>Roll-overs in field triage (RIFT)</td>
</tr>
<tr>
<td>Anthony Bell</td>
<td>John Burke (ETC), Gerald Fitzgerald (QUT), Sam Toloo (QUT), Julia Crilly (GCUH), Ged Williams (GCUH)</td>
<td>State-wide models of care in emergency departments (SWAMPED)</td>
</tr>
<tr>
<td>Debra Harcourt</td>
<td>Leonie Cartidge-Gaan (Internal Medicine), Clancy McDonald (ETC), John Burke (ETC), Anthony Nosbit (Patient Flow Unit), Amanda Dines (Executive Services)</td>
<td>Working together to connect care: emergency department frequent presenter’s response project</td>
</tr>
<tr>
<td>Julia Brownlie</td>
<td>Jaimi Greenslade (ETC), Jessica Suna (ETC), Louise Cullen (ETC)</td>
<td>Emergency nurse practitioner in early pregnancy</td>
</tr>
<tr>
<td>Mercedes Ray</td>
<td>Julian Williams (ETC), James Hughes (ETC), Melissa Dixon (ETC), Angela Hills (ETC), Jill Duncan (ETC), Dr Jacqui Harper (Path Qld)</td>
<td>Identification of blood culture quality and current practices in the emergency and trauma centre</td>
</tr>
<tr>
<td>Julian Williams</td>
<td>James Hughes (ETC), Melissa Dixon (ETC), Angela Hills (ETC), Jill Duncan (ETC), Dr Jacqui Harper, Dr Jaimi Greenslade (ETC)</td>
<td>A prospective intervention study to improve the quality of blood cultures in the Emergency and Trauma Centre – The Bugs in Bottles Project</td>
</tr>
<tr>
<td>James Hughes</td>
<td>Brandon Allwood (ETC), Jacqui Chiu (UQ), Kevin Chu (ETC), Nathan Brown (ETC)</td>
<td>Exploring Current Pain Practices in the Emergency and Trauma Centre</td>
</tr>
<tr>
<td>Leonie Higgs</td>
<td>Di Atkinson (ETC), Nathan Brown (ETC), Leanne Bennett (ETC), Dave Kramer (ETC), Greg Merlo (QUT), Linda Schnicter (QUT)</td>
<td>A pragmatic randomised controlled trial of the effects of therapeutic activity kits in emergency department patients with dementia and responsive behaviours</td>
</tr>
<tr>
<td>Louise Cullen</td>
<td>Nathan Brown (ETC), Jaimi Greenslade (ETC), Peter Donovan (Clinical Pharmacology), Ian Coombes (Pharmacy), Neil Cottrell (UQ), Bill Lukin (ETC), Anthony Bell (ETC), Elizabeth Doran (ETC), David Hughes (ETC)</td>
<td>Prevalence and characteristics of medication-related presentations to the emergency department</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doug Morel (Redcliffe Hospital)</td>
<td>Kevin Chu (ETC)</td>
<td>What influences the choice made by patients between emergency department and primary healthcare for acute illness?</td>
</tr>
<tr>
<td>Nam Nguyen (Royal Adelaide Hospital)</td>
<td>Anthony Brown (ETC)</td>
<td>The utility of the Glasgow-Blatchford score in predicting clinical outcome and stratifying the need for therapeutic intervention in hospitalised patients with upper gastrointestinal bleeding: a prospective validating study</td>
</tr>
<tr>
<td>Muhammad Alshyyab (QUT)</td>
<td>Kevin Chu (ETC)</td>
<td>Safety culture in the emergency department</td>
</tr>
<tr>
<td>Julia Crilly (Griffith University and GCUH)</td>
<td>David Rosengren (ETC), Sean Rothwell (ETC), Jill Duncan (ETC), Nathan Brown (ETC)</td>
<td>Evaluating the impact of alcohol on emergency department presentations (ETOH)</td>
</tr>
<tr>
<td>Shane George (GCUH)</td>
<td>Catherine Hurn (ETC), Anthony Holley (DICM)</td>
<td>Fibrinogen early in children with severe trauma study (FEISTY Junior)</td>
</tr>
<tr>
<td>James Winnears (GCUH)</td>
<td>Catherine Hurn (ETC), Anthony Holley (DICM)</td>
<td>Fibrinogen early in severe trauma study (FEISTY)</td>
</tr>
<tr>
<td>Thomas Torpie (GCUH)</td>
<td>Alex Markwell (ETC), James Hughes (ETC), James Ready (ETC)</td>
<td>Domestic and family violence screening in the emergency department</td>
</tr>
<tr>
<td>Richard Skoien (RBWH Gastroenterology)</td>
<td>Anthony Brown (ETC)</td>
<td>Examination of health outcomes associated with paracentesis in patients admitted with decompensated cirrhosis</td>
</tr>
<tr>
<td>Andrea Driscoll (Deakin University)</td>
<td>Louise Cullen (ETC)</td>
<td>Redesigning systems of care for heart failure patients to improve outcomes</td>
</tr>
<tr>
<td>William Crawford (TPCH)</td>
<td>Louise Cullen (ETC)</td>
<td>Impact of fluid volume resuscitation on nitric oxide-induced oxidative stress and cardiac dysfunction in an ovine septic shock model</td>
</tr>
<tr>
<td>Christopher Reid (Curtin University of Technology, WA)</td>
<td>Louise Cullen (ETC)</td>
<td>Centre for Research Excellence in Cardiovascular Outcomes Improvement</td>
</tr>
<tr>
<td>John Fraser (TPCH)</td>
<td>Louise Cullen (ETC)</td>
<td>Cardiovascular haemodynamics in an ovine model of brain stem death</td>
</tr>
<tr>
<td>Frances Kinnear (TPCH)</td>
<td>Kevin Chu (ETC)</td>
<td>A randomised controlled trial of interventional versus conservative treatment of primary spontaneous pneumothorax</td>
</tr>
<tr>
<td>Stephen Rashford (QAS)</td>
<td>Daniel Bodnar (ETC)</td>
<td>A prospective blinded evaluation of the sensitivity and specificity of pre-hospital Focused Abdominal Sonogram for Trauma (FAST)</td>
</tr>
<tr>
<td>Mark Cruickshank (RBWH Physiotherapy)</td>
<td>Venkat Acholi (ETC), Janelle Heine (ETC), David Kramer (ETC)</td>
<td>Physiotherapy defined scope of practice (prescribing)</td>
</tr>
<tr>
<td>Wahid Allilhaib (QUT)</td>
<td>John Burke (ETC)</td>
<td>A New Approach to Optimise Hospital Emergency and Inpatient Operations</td>
</tr>
<tr>
<td>Kasi Ahsan (QUT)</td>
<td>John Burke (ETC)</td>
<td>Lean integrated optimisation model of emergency department for improved patient flow</td>
</tr>
<tr>
<td>Julia Crilly (Griffith University and GCUH)</td>
<td>Jaimi Greenslade (ETC), James Hughes (ETC)</td>
<td>Morale, stress and coping strategies of staff working in the emergency department: a national and international comparison</td>
</tr>
<tr>
<td>Nicola Harper (RBWH Pharmacy)</td>
<td>Jessica Suna (ETC)</td>
<td>A pre- and post-evaluation of the impact of an Automated Medication Distribution System (AMDS) on medication administration in the RBWH Emergency Department</td>
</tr>
<tr>
<td>Paul Haber (RPAH, University of Sydney)</td>
<td>Clancy McDonald (ETC)</td>
<td>Reconnecting after a suicide attempt (RAFT) – feasibility study</td>
</tr>
<tr>
<td>Georgia Livesay (PAH)</td>
<td>James Hughes (ETC), Nathan Brown (ETC), Tegwen Howell (ETC)</td>
<td>Understanding the patterns, circumstance and outcomes of power tool injuries in occupational and domestic settings to inform a safety campaign</td>
</tr>
<tr>
<td>Mahender Samtani (RBWH Physiotherapy)</td>
<td>Jennifer Paratz (Physiotherapy), Shaun O’Leary (Physiotherapy), Venkat Acholi (ETC), Janelle Heine (ETC), David Kramer (ETC), Louise Cullen (ETC)</td>
<td>Comparison of two exercise approaches for the management of low back pain in the emergency department setting</td>
</tr>
<tr>
<td>Kirsten Vallmuur (QUT)</td>
<td>Nathan Brown (ETC)</td>
<td>Understanding serious quad bike-related injuries in Queensland and Northern Territory: comparing circumstances, patterns, severity, costs and outcomes</td>
</tr>
<tr>
<td>Fran Kinnear (TPCH)</td>
<td>Clancy McDonald (ETC), James Hughes (ETC), Amanda Petrie (USC)</td>
<td>Impact of legislation changes to involuntary orders on emergency department presentations: a retrospective chart audit</td>
</tr>
<tr>
<td>Flavia Huygens (QUT)</td>
<td>James Hughes (ETC), Julian Williams (ETC), Graeme Nimo (Pathology Qld)</td>
<td>Testing of InfectID® using blood samples</td>
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</table>
2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louise Cullen</td>
<td>Citation of the Branch</td>
<td>Australian Medical Association, Queensland</td>
</tr>
<tr>
<td>Louise Cullen</td>
<td>Chief Executive’s Award</td>
<td>Metro North Hospital and Health Service Research Excellence Awards 2018</td>
</tr>
<tr>
<td>Jaimi Greenslade</td>
<td>Highly Commended – Research Support Award</td>
<td>Metro North Hospital and Health Service Research Excellence Awards 2018</td>
</tr>
<tr>
<td>Tracey Greenslade</td>
<td>Research into practice award</td>
<td>International Conference for Emergency Nursing 2018</td>
</tr>
<tr>
<td>James Hughes</td>
<td>Best Research Presentation – Runner up</td>
<td>International Conference for Emergency Nursing 2018</td>
</tr>
<tr>
<td>Page CB, Parker LE,</td>
<td>John Gilroy Potts Award for Best Publication by</td>
<td>Australasian College for Emergency Medicine</td>
</tr>
<tr>
<td>Rashford SJ, Bosley E,</td>
<td>Isbister GK</td>
<td>35th Annual Scientific Meeting 2018</td>
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2018 Research Publications

Journal Articles:

Journal Articles: (cont):

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:
4. Schmidt M., To bleed or not to bleed, International Conference for Emergency Nursing, October 2018, Melbourne
Oral Presentations: (cont):

Poster Presentations:
2. Schmidt M, Brownlie J, Lai K, Arnold A, Hughes J. Anti-D use in the ED: identifying current practices and the appropriateness of use. 27th Annual RBWH Healthcare Symposium; Brisbane, Australia. 11-13 September 2018
3. Savage R. Quality, cost, value: ED OPIOID: the effects of an intervention on emergency department oxycodeone prescribing and communication at discharge. International Forum on Quality and Safety in Healthcare; Melbourne. 11-12 September 2018
4. Pattullo C, Lock C. Improvement Works in Progress: Opioid Prescribing Toolkit. International Forum on Quality and Safety in Healthcare; Melbourne. 11-12 September 2018
7. Lock C. Building capability and leadership: Qual-ED: creating a culture of value-driven quality in the emergency department. International Forum on Quality and Safety in Healthcare; Melbourne. 11-12 September 2018
8. Ho A, Greenslade J, Hawkins T, Cullen L. Troponin testing post-implementation of IMPACT, an accelerated chest pain protocol. 27th Annual RBWH Healthcare Symposium; Brisbane, Australia. 11-13 September 2018
12. Cruickshank M, Sam S, Heine J, Acholi V. Physiotherapy prescribing in emergency. 27th Annual RBWH Healthcare Symposium; Brisbane, Australia. 11-13 September 2018
13. Bodnar D, Brown NJ, Stevens Z, Williams S, Handy M, Rashford Sj. Hypofibrinogenaemia and hypocalcaemia in trauma patients are potential therapeutic targets during pre-hospital care. 27th Annual RBWH Healthcare Symposium; Brisbane, Australia. 11-13 September 2018
15. Marks J, Randell T, Hughes J. A retrospective audit of 12 months of domestic and family violence victim presentations to the Royal Brisbane and Women’s Hospital Emergency and Trauma Centre with access to 24-hour social work. 4th Stop Domestic Violence Conference; Gold Coast. 3-5 December 2018

Other Communications and Outputs:
Genetic Health Queensland

Genetic Health Queensland (GHQ) is a state-wide service which provides clinical genetics services for all age groups in the state of Queensland. GHQ contributes to national and international research projects, and educational sessions at RBWH, Queensland Children’s Hospital (QCH) and regional centres. GHQ clinical staff undertake presentations to other health professional groups and non-government organisations.

In 2018, the ICCon partnership projects, which began at GHQ in 2015, were completed. This includes the addition of all QLD carriers of an inherited cancer syndrome mutation, up to the 31 December 2016 (deidentified), into the national ICCon database.

This year, GHQ continued its close involvement in the Australian Genomic Health Alliance (AGHA) (a $25 million 5-year grant from the NHMRC) to prepare Australia for the Genomics Revolution in Healthcare. AGHA brings together more than 50 partner organisations committed to integrating genomic medicine into healthcare across Australia. This has included the appointment of GHQ Australian Genetics research staff including a project officer, Flagship Project Coordinator and two part-time Genetic Counsellors. In 2018, GHQ recruited >90 patients into the project at RBWH (combined total for Renal and ICCon flagships). GHQ Australian Genomics staff are also working with clinicians at QCH on several other AGHA flagships. In total, across all the flagships that GHQ AGHA staff are involved with, >200 patients have been recruited. Furthermore, staff are collaborating with researchers from organisations including QIMR-Berghofer, UQ, QGHA and others, locally and interstate, in programs regarding bioinformatics, workplace education, ethical and legal issues, implementation, health economics and policy associated with genomic medicine.

Further, the Cardiovascular Genetics AGHA Flagship has now commenced, led by GHQ Director Prof Julie McGaughran. This flagship will recruit and provide genomic testing of around 150 families that are being seen at GHQ with congenital heart disease, arrhythmia disorders and cardiomypathies. Furthermore, Prof McGaughran is involved in the Clinical Committee and Disease and Gene Selection Committee of MacKenzie’s Mission. Mackenzie’s Mission is a research study of reproductive genetic carrier screening for approximately 500 debilitating genetic conditions including Spinal Muscular Atrophy (SMA), fragile X syndrome and cystic fibrosis, which has been awarded $20 million by the Australian Government.

Several Research projects have commenced at Genetic Health Queensland this year including the CaPP3 clinical trial, BIG health Project (indigenous health), Young people with Li Fraumeni Syndrome and ELSI survey (QGHA).

The ELSI survey is a sub study of the Ethics, Legal and Social implication in genomics working stream of the Queensland Genomics Health Alliance (QGHA), which has been established to ensure the safe delivery of genomic medicine for Queenslanders. GHQ clinicians and Genetic counsellors involvement in national and international research collaborations has seen them author over 15 research publications this year and present at national and international conferences.

2018 was a productive year for GHQ and we continue to build and expand the foundation for ongoing important research collaborations both within the RBWH and with an increasing number of external institutions.

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Julie McGaughran</td>
<td>Professor Cardiovascular Genetic Disorders Flagship Co-Lead Committee Member</td>
<td>Australian Genomics Health Alliance (AGHA) Mackenzie’s Mission (Australian, Reproductive Carrier Screening Project)</td>
<td>UQ</td>
</tr>
<tr>
<td>Dr Michael Quinn</td>
<td>Queensland State Project Officer for Australian Genomics</td>
<td>AGHA</td>
<td>NA</td>
</tr>
<tr>
<td>Ms Melanie Tom</td>
<td>Genetic Counsellor for Australian Genomics</td>
<td>AGHA – Malformations of Cortical Development, Leukodystrophies, Neuromuscular and Epileptic Encephalopathy Flagships</td>
<td>NA</td>
</tr>
<tr>
<td>Dr Lindsay Fowles</td>
<td>Genetic Counsellor for Australian Genomics (Renal flagship)</td>
<td>AGHA</td>
<td>NA</td>
</tr>
<tr>
<td>Ms Rachel Austin</td>
<td>Clinical Research Assistant, Flagship Coordinator</td>
<td>AGHA – ICCon and Cardiac, RBWH Research Foundation, CaPP3, BIG project</td>
<td>NA</td>
</tr>
<tr>
<td>Dr Helen Marfan</td>
<td>Co-Investigator</td>
<td>AGHA, ICCon</td>
<td>NA</td>
</tr>
<tr>
<td>Dr Rachel Susman</td>
<td>Co-Investigator</td>
<td>AGHA, ICCon, Genetics of Sebaceous skin lesions</td>
<td>NA</td>
</tr>
<tr>
<td>Dr Chirag Patel</td>
<td>Co-Lead QLD Renal Genetic Program</td>
<td>KidGen Collaborative, AGHA Renal Genetics and HIDDEN Flagships</td>
<td>NA</td>
</tr>
</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Linda Wornam</td>
<td>AGHA Cardiac Genetic counsellor</td>
<td>AGHA Cardiac</td>
<td>NA</td>
</tr>
<tr>
<td>Ms Julie White</td>
<td>BIG project (CI)</td>
<td>Better Indigenous Genetic Health (BIG) Project</td>
<td>NA</td>
</tr>
<tr>
<td>A/Prof Andrew Mallett</td>
<td>Clinical Fellow, Co-Lead QLD Renal Genetics Program, National Director AGHA</td>
<td>KidGen Collaborative, AGHA Renal Genetics and HIDDEN Flagships</td>
<td>UQ</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Julie McGaughran</td>
<td>Prof Chris Semsarian (Co lead), AGHA Flagship</td>
<td>Cardiovascular Genetic Disorders Flagship (AGHA)</td>
</tr>
<tr>
<td>A/Prof Andrew Mallett</td>
<td>Prof Julie McGaughran, Dr Chirag Patel, AGHA Renal Flagship</td>
<td>Applying genomics to inherited tubulointerstitial and cystic kidney diseases in Australia (RBWH Foundation research grant)</td>
</tr>
<tr>
<td>A/Prof Andrew Mallett</td>
<td>Andrew Mallett, Mohammad Al-Shinnag, Helen Mar Fan, Rachel Susman</td>
<td>Clinical audit of BHD, HLRCC and VHL at RBWH</td>
</tr>
<tr>
<td>A/Prof Andrew Mallett</td>
<td>AGHA Renal Flagship Dr Chirag Patel (CI), Prof Julie McGaughran (PI), Dr Lindsay Fowles (GC)</td>
<td>KidGen – renal genetics flagship</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Kathryn North</td>
<td>Prof Julie McGaughran</td>
<td>Australia Genomics Health Alliance (AGHA)</td>
</tr>
<tr>
<td>AGHA ICCon Cancer Flagship</td>
<td>Prof Julie McGaughran, Dr Helen Marfan, Rachel Austin (CRA), Dr Rachel Susman, Jan Wakeling (GC)</td>
<td>AGHA: preparing Australia for genomic medicine</td>
</tr>
<tr>
<td>AGHA Cardiac Flagship, Chris Semsarian (Co-lead)</td>
<td>Prof Julie McGaughran (co-lead), Dr Michael Quinn, Rachel Austin (CRA), Linda Wornham (GC)</td>
<td>AGHA: preparing Australia for genomic medicine: rare disease flagships: Cardiovascular Genetic Disorders</td>
</tr>
<tr>
<td>COSA (Lead by Judy Do and Bettina Meiser)</td>
<td>Dr Helen Marfan</td>
<td>BRCA Mainstreaming project</td>
</tr>
<tr>
<td>IMPACT Geoffrey Lindeman (Lead)</td>
<td>Dr Rachel Susman</td>
<td>Identification of Men with a genetic predisposition to ProstAte Cancer: targeted screening in men at higher genetic risk and controls (IMPACT)</td>
</tr>
<tr>
<td>ICCon Partnership – Paul James and Gillian Mitchell (Leads)</td>
<td>Prof Julie McGaughran, Dr Rachel Susman, Rachel Austin (CRA)</td>
<td>The Inherited Cancer Connect (ICCon) partnership</td>
</tr>
<tr>
<td>Prof Finlay Macrae (lead)</td>
<td>Dr Helen Marfan (PI), Rachel Austin (CRA)</td>
<td>A randomised double-blind dose noninferiority, Trial of aspirin in Lynch syndrome. CaPP3</td>
</tr>
<tr>
<td>QGHA ELSI working group, Dr Miranda Vidgen (Lead)</td>
<td>Prof Julie McGaughran (PI)</td>
<td>The use of genomic data from medical records in research: Patient opinion survey (ELSI sub study)</td>
</tr>
<tr>
<td>BIG project team – Prof Margaret Kelaher (Lead)</td>
<td>Julie McGaughran (PI)</td>
<td>Better Indigenous Genetic (BIG) Health Services</td>
</tr>
<tr>
<td>Prof Ingrid Winship (Lead)</td>
<td>Dr Rachel Susman</td>
<td>Genetics of Sebaceous Skin Lesions Study</td>
</tr>
</tbody>
</table>
**2018 Research Grants – Awarded**

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Julie McGaughran (CI)</td>
<td>Genetic Health Queensland</td>
<td>AGHA: preparing Australia for Genomic Medicine</td>
<td>NHMRC</td>
<td>Nationally $5 million annually for 5 years</td>
<td>2016-2020</td>
</tr>
<tr>
<td>Andrew Mallett, Chirag Patel, Julie McGaughran</td>
<td>Renal department, Genetic Health Queensland</td>
<td>Applying genomics to inherited tubulointerstitial and cystic kidney diseases in Australia</td>
<td>RBWH Foundation</td>
<td>$40,000</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**2018 Research Publications**

**Journal Articles:**

1. Nguyen NMP...Patel C. et al., The genetics of recurrent hydatidiform moles: new insights and lessons from a comprehensive analysis of 113 patients. Modern Pathology, (2018) 31(7), 1116-1130

**Book Chapters / Letters:**

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
5. McGaughran J. Developing a national consent form for genomics. RCPA conference 2018. Sydney, Australia
10. McGrath, P. NPT vs Nuchal Translucency at Improving Outcomes: Queensland Mothers and babies. Translational research institute PA Hospital 2018. Brisbane, Australia
12. Patel C. Genomics in medicine: genomics in the Clinic. HGSA QLD Branch education meeting 2018. Brisbane, Australia
13. Mehta S. Inherited Cardiovascular Conditions: Cambridge Experience. HGSA QLD branch. Brisbane, Australia
14. Sane V. A Brief Overview of Genetic Counselling. Prince Charles Hospital. Brisbane, Australia

Oral Presentations:
2. Van Spaendonck-Zwarts K. Genetic Testing in DCM – don’t just look at the heart. CSANZ Annual Scientific Meeting 2018. Brisbane, Australia

Poster Presentations:
1. Higgins, M. J McGaughran Further delineation of Bainbridge-Ropers syndrome in five Australasian patients. HGSA Scientific Meeting 2018. Sydney, Australia, Manchester Dymorphology Meeting, 2018
2. Tom M, Edwards S, Boggs K, Wilkins E, de Silva M. Challenges and Successes in Research Genetic Counselling in an Australian National Program. HGSA Scientific Meeting 2018. Sydney, Australia
Hyperbaric Medicine Service

About this service:
The RBWH Hyperbaric Medicine Service provides inpatient and outpatient treatments in line with evidence based indications approved by the international scientific body, The Undersea and Hyperbaric Medicine Society. It is a subspecialty of the Australian and New Zealand College of Anaesthesia but indications are derived from multiple specialities. Approximately 50% of the current workload is provided in support of the late effects of therapeutic radiation induced tissue damage, both symptomatic treatment of and surgical intervention within. There are applications wherever microvascular disease impedes normal tissue metabolism. Support is provided for endovascular and tissue bubble injury, for example with decompression illness and CAGE, both within the recreational and commercial diving community and iatrogenic injury.

Highlights of 2018:
Work has continued around the newest indication for treatment with hyperbaric oxygen therapy, Idiopathic Sudden Sensorineural Hearing Loss. The timing and dose of the hyperbaric oxygen intervention is being investigated. A previously published paper by the department supported a Cochrane review highlighting Hyperbaric Oxygen as the most effective therapy in the treatment of Idiopathic Sudden Sensorineural Hearing Loss. A randomised RCT protocol is being developed to further the quality of evidence in this area. The department published a paper detailing the results of a double blind trial examining the utility of hyperbaric oxygen as an adjunct in the treatment of chronic venous leg ulcers. Despite being underpowered, the trial revealed a statistical and clinically significant reduction in wound healing trajectories with adjunct hyperbaric oxygen. The unit published an audit of CNS oxygen toxicity nationally and variations between treatment protocols nationally. The unit also published a prospective observational cohort study of 51 patients on the effect of hyperbaric oxygen therapy in treating radiation induced xerostomia. The unit continues to be involved in the development of a national and international data registry of outcome measures. Finally, a trial investigating the reliability and accuracy of delivery of B-Braun infusion pumps and syringe drivers under hyperbaric conditions has been completed and is awaiting publication.

Benefits for clinical practice:
The clinical outcome findings from the chronic venous leg ulcer trial have been incorporated into daily practice via the Choosing Wisely initiative. The B-Braun pumps and syringe drivers have been validated for use under hyperbaric conditions to 4 ATA. The local database will enable ongoing quality assurance programs and the national data registry will help better inform clinical decision making in the hyperbaric medicine area.

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susannah Sherlock Ken Thistlethwaite</td>
<td>David Kramer, Adam Storey</td>
<td>National data registry</td>
</tr>
<tr>
<td>Susannah Sherlock</td>
<td></td>
<td>CNS toxicity, a national audit of practise</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pelin Tufekci Biomedical Technology Services</td>
<td>Chrishley Goonawardena</td>
<td>The reliability and precision of B-Braun infusion pumps under hyperbaric conditions to 4 ATA</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:
1. Hyperbaric oxygen treatment for the management of radiation-induced xerostomia. Sherlock, Susannah; Way, Mandy; Tabah, Alexis. JOURNAL OF MEDICAL IMAGING AND RADIATION ONCOLOGY; DEC 2018; 62; 6; p841-p846
Intensive Care Services

Professor Michael Reade: the Cryopreserved vs. Liquid Platelet (CLIP) pilot trial was completed and submitted for publication, and the subsequent CLIP-II definitive trial was funded by the NHMRC with A$1.85 million over 4 years. This trial will establish the safety and cost-effectiveness of frozen platelets for surgical bleeding. Professor Reade was elected a Fellow of the Royal Institution of Australia.

ICS Research team: In March 2018 the first patient was enrolled into the BLING III study (7000 participants worldwide). Permanent positions gained for x3 research staff – previously temporary positions. Expansion of service provision including study monitoring, mentoring, medical student research facilitation, utilisation and development of REDCap data capture eCRF’s, project management for multi centred collaborative research. Successful commencement of health volunteer study. Recruitment reaching 50% target required.

Professor Jeffrey Lipman was one of the nine researchers named on the 2018 Clarivate Highly Cited Researchers List. Those on the list have demonstrated significant influence by publishing multiple highly cited papers during the last decade ranking in the top one per cent by citations for a publication field and year.

Associate Prof Jeremy Cohen: Publication of the ADRENAL trial – in New England Journal of Medicine. This was a 3800-patient study of the use of corticosteroids in septic shock and is currently the largest trial of septic shock ever conducted. Jeremy Cohen was one of the Chief Investigators and authors of the paper. Subsequently this trial was voted by the NEJM Editorial Staff studies as one of the 12 most influential studies of 2018.

Supervised Post–Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.) University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hajar Alasmari</td>
<td>PhD, Queensland University of Technology (2012-2018)</td>
<td>Examining Intensive Care Nurses’ Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia</td>
<td>Prof Ann Bonner, Prof Fiona Coyer FM</td>
</tr>
<tr>
<td>Sonia Hines</td>
<td>PhD, Queensland University of Technology</td>
<td>An educational intervention to improve nurses’ research literacy</td>
<td>Prof Joanne Rambootham, Prof Fiona Coyer FM</td>
</tr>
<tr>
<td>Sandra Johnston</td>
<td>PhD, Queensland University of Technology</td>
<td>Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education</td>
<td>Prof Fiona Coyer FM, Prof Robyn Nash</td>
</tr>
<tr>
<td>Lianne Dalgleish</td>
<td>PhD, Queensland University of Technology</td>
<td>The role of microcirculatory dysfunction and skin breakdown in the critically ill</td>
<td>Prof Fiona Coyer FM, Dr Jill Campbell, Dr Kathy Finlayson, Prof Andre VanZundert</td>
</tr>
<tr>
<td>Adrianna Hada</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Transforming patient outcomes through improved and effective nursing clinical handover</td>
<td>Prof Fiona Coyer FM, Dr Leanne Jack</td>
</tr>
<tr>
<td>Paul Jarrett</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Administration of antibiotics in the intensive care unit</td>
<td>Prof Fiona Coyer FM, Prof Sam Keogh, Prof Jason Roberts</td>
</tr>
<tr>
<td>Anthony Batterbury</td>
<td>PhD, Queensland University of Technology (2018-2023)</td>
<td>How sick is too sick and how heavy too heavy? Quantifying the clinical acuity and dependency of ward patients whom have triggered emergency response systems in order to understand service delivery boundaries and define thresholds for escalation or resource mobilisation</td>
<td>Prof Fiona Coyer FM, Clint Douglas</td>
</tr>
<tr>
<td>Hannauh Rheault</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: a mixed method study</td>
<td>Prof Ann Bonner, Prof Fiona Coyer FM</td>
</tr>
<tr>
<td>Leanne Stone</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Comparing &quot;Magnet&quot; attributes in nursing between Australia and the United States</td>
<td>Prof Fiona Coyer FM, Prof Ray Chan, Prof Alexandra McCarthy</td>
</tr>
<tr>
<td>Bryan Gregory</td>
<td>PhD, Queensland University of Technology (2018-2022)</td>
<td>The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury</td>
<td>Prof Fiona Coyer FM, Prof Jason Roberts, Prof Ann Bonner</td>
</tr>
<tr>
<td>Jessica Ingleman</td>
<td>Masters of Applied Science (Research), Queensland University of Technology (2016)</td>
<td>Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)</td>
<td>Prof Fiona Coyer FM, Dr Christina Parker</td>
</tr>
<tr>
<td>Name</td>
<td>Current Studies (e.g. PhD, Masters etc.)</td>
<td>University (duration)</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------</td>
<td>-----------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>David McIntyre</td>
<td>PhD, Queensland University of Technology (2016-)</td>
<td>Developing and validating haemodialysis nurse-sensitive indicators</td>
<td>Prof Ann Bonner, Prof Fiona Coyer FM</td>
</tr>
<tr>
<td>Elissa Milford</td>
<td>PhD, UQ</td>
<td>Effects on the glycolyx of resuscitation with immunomodulatory drugs and cryopreserved blood products in preclinical and clinical trauma</td>
<td>Michael Reade, John-Paul Tung</td>
</tr>
<tr>
<td>Gabrielle Simonova</td>
<td>PhD, UQ</td>
<td>Effect of storage conditions and duration on the clinical effect of platelet and red blood cell transfusion</td>
<td>John-Paul Tung, Melinda Dean, Michael Reade</td>
</tr>
<tr>
<td>Paul Lee-Archer</td>
<td>PhD, UQ</td>
<td>A randomised controlled trial of dexmedetomidine to lessen postoperative agitation in children undergoing elective surgery or radiology</td>
<td>Michael Reade, Debbie Long, Britta Regli-VonUngern</td>
</tr>
<tr>
<td>Adam Mahoney</td>
<td>PhD, UQ</td>
<td>A geospatial approach to quantitative quality assurance in trauma</td>
<td>Michael Reade, Kirsten Vallmuur</td>
</tr>
<tr>
<td>Anthony Holley</td>
<td>PhD, UQ</td>
<td>Observational studies of critical care practice in the management of severe burns patients in Australia and New Zealand</td>
<td>Jeremy Cohen, Jeff Lipman, Michael Reade</td>
</tr>
<tr>
<td>Andrew Flint</td>
<td>PhD, Monash</td>
<td>Retrospective analysis of the effect of platelet transfusion on infection complications in critical illness</td>
<td>Zoe McQuilten, Michael Reade</td>
</tr>
<tr>
<td>Gavin Day</td>
<td>MPH, QUT</td>
<td>Does a supervisor's leadership have an effect on burnout in Army clinicians? A multivariable analysis of two validated survey instruments</td>
<td>Michael Reade</td>
</tr>
<tr>
<td>John Parr</td>
<td>MD, UQ</td>
<td>Observational study of sedation practices in severe trauma and critical illness</td>
<td>Michael Reade</td>
</tr>
<tr>
<td>Patrick Biggins</td>
<td>MD, UQ</td>
<td>Does delay to neurosurgical intervention after trauma affect outcome? If so, what (if any) delay is acceptable? Analysis of Queensland Health data</td>
<td>Michael Reade, Kirsten Vallmuur</td>
</tr>
<tr>
<td>Terrance English</td>
<td>MBBS, Deakin</td>
<td>Predictors of platelet transfusions in cardiac surgical patients</td>
<td>Michael Reade, Zoe McQuilten</td>
</tr>
<tr>
<td>Jayesh Dhanani</td>
<td>PhD UQ</td>
<td>Study of the disposition of nebulised tobramycin</td>
<td>Jeremy Cohen</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>PhD UQ</td>
<td>Rotational Thromboelastography in Obstetrics</td>
<td>Jeremy Cohen</td>
</tr>
<tr>
<td>Anthony Holey</td>
<td>PhD UQ</td>
<td>Variability in Critical Care Burn Management</td>
<td>Jeremy Cohen</td>
</tr>
<tr>
<td>Alexis Tabah</td>
<td>PhD, UQ, 2018</td>
<td>Local and International epidemiology of Hospital Acquired Blood Stream Infections in the Critically Ill</td>
<td>Jeffrey Lipman, Jason Roberts</td>
</tr>
<tr>
<td>Christopher Anstey</td>
<td>PhD 2017-</td>
<td>Extramitochondrial metabolism of citrate metabolism in the critically ill</td>
<td>Bala Venkatesh, Jason Roberts</td>
</tr>
<tr>
<td>Andrew Burke</td>
<td>PhD 2018-</td>
<td>Pharmacokinetics of anti-myc drugs in patients with cystic fibrosis</td>
<td>Jason Roberts, Rachel Thomson, Scott Bell, Daniel Smith</td>
</tr>
<tr>
<td>Vesa Cheng</td>
<td>PhD 2018-</td>
<td>Optimising antibiotic dosing in critically ill patients on extracorporeal membrane oxygenation</td>
<td>Jason Roberts, Mohd Hafiz Abdul Aziz, Kieran Shekar</td>
</tr>
<tr>
<td>Tavey Dorofaeff</td>
<td>PhD 2016-</td>
<td>How to use antibiotics better in Paediatric Intensive Care using pharmacokinetic principles</td>
<td>Suzanne Parker, Mark Coulthard, Jason Roberts, Jeffrey Lipman</td>
</tr>
<tr>
<td>William Franks</td>
<td>MPhil 2017-</td>
<td>Pharmacokinetics of commonly used antimicrobials in lung transplant recipients</td>
<td>Jason Roberts, Mohd Hafiz Abdul Aziz, Menino Cotta</td>
</tr>
<tr>
<td>Yarmarly Guerra Valero</td>
<td>PhD 2016-</td>
<td>Translating microsampling techniques into better antibiotic dosing for critically ill children</td>
<td>Suzanne Parker, Jason Roberts, Steven Wallis, Jeffrey Lipman</td>
</tr>
<tr>
<td>Nilesh Kumta</td>
<td>PhD 2017-</td>
<td>Optimising antibiotic dosing for the treatment and prevention of central nervous system infections</td>
<td>Jeffrey Lipman, Jason Roberts</td>
</tr>
<tr>
<td>Rochelle Ryan</td>
<td>PhD 2018-</td>
<td>Perioperative pharmacokinetics of surgical antibiotic prophylaxis</td>
<td>Jason Roberts, Adrien Van Zundert, Jeffrey Lipman, Hildegard Wyssusek</td>
</tr>
</tbody>
</table>
### Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eko Setiawan</td>
<td>PhD 2018-</td>
<td>Strategies to Improve the Use of Antimicrobials in Hospitalized Indonesian Patients</td>
<td>Jason Roberts, Menino Cotta, Jeffrey Lipman</td>
</tr>
<tr>
<td>Angela Tognolini</td>
<td>MPhil 2018-</td>
<td>Intraoperative lignocaine infusions: development of an optimised infusion dosing regimen for obese patients</td>
<td>Victoria Eley, Jason Roberts</td>
</tr>
<tr>
<td>Paul Williams</td>
<td>PhD 2018-</td>
<td>What is the validity of altered dosing approaches for ensuring appropriate antibiotic dosing in the critically ill?</td>
<td>Jason Roberts, Menino Cotta</td>
</tr>
<tr>
<td>Gloria Wong</td>
<td>PhD 2012-</td>
<td>A pharmacokinetic-pharmacodynamic evaluation of beta-lactam antibiotics TDM guided dose adjustment in critically ill patients</td>
<td>Jason Roberts, Jeffrey Lipman</td>
</tr>
<tr>
<td>Sazlyn Lim</td>
<td>PhD 2018-</td>
<td>In Vitro Evaluation of Antimicrobials Used for Treatment of Carbapenem-Resistant Enterobacteriaceae Infections</td>
<td>Jason Roberts, Fekade Sime</td>
</tr>
<tr>
<td>Kamrul Islam</td>
<td>PhD 2018-</td>
<td>Optimising antibiotic dosing for resistant infections</td>
<td>Jason Roberts, Fekade Sime</td>
</tr>
<tr>
<td>Helmi Sulaiman</td>
<td>PhD 2017-</td>
<td>Optimization of alternative antibiotic dosing regimens for maximal antibacterial activity and suppression of emergence of resistance</td>
<td>Jason Roberts, Fekade Sime</td>
</tr>
<tr>
<td>Chandra Sumi</td>
<td>PhD 2016-</td>
<td>The microbiological effects of antimicrobial deescalation: an in-vitro evaluation in a dynamic infection model</td>
<td>Jason Roberts, Fekade Sime, Suzanne Parker</td>
</tr>
<tr>
<td>Saiyuri Naicker</td>
<td>PhD 2017-</td>
<td>Can TLR4 active metabolites of drugs administered to cancer surgery patient improve long term cancer outcomes</td>
<td>James Falconer, Peter Cabot, Fekade Sime, Jason Roberts</td>
</tr>
<tr>
<td>Aun Raza</td>
<td>PhD 2018-</td>
<td>The role of endothelial glyocalyx breakdown in human lung transplantation and the establishment of a porcine model to study mechanisms and evaluate therapeutic interventions</td>
<td>Dan Chambers, Stephanie Yerkovich, Jeffrey Lipman, Jonathan Hill</td>
</tr>
<tr>
<td>Timothy Sladden</td>
<td>PhD 2014-</td>
<td>Teaching Psycho-Motor Skills in Anaesthesia</td>
<td>Andre van Zundert, Jeffrey Lipman</td>
</tr>
<tr>
<td>Kersi Taraporewalla</td>
<td>PhD 2017-</td>
<td>Psychosocial outcomes post severe burn injuries in adults – an exploratory study</td>
<td>Peter Newcombe, Catherine Cameron, Jeffrey Lipman</td>
</tr>
<tr>
<td>Martha Druery</td>
<td>PhD 2014-</td>
<td>Psychosocial outcomes post severe burn injuries in adults – an exploratory study</td>
<td>Peter Newcombe, Catherine Cameron, Jeffrey Lipman</td>
</tr>
<tr>
<td>Caleb Economou</td>
<td>PhD 2012-</td>
<td>The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy</td>
<td>Jason Roberts, Jeffrey Lipman, Brent Richards</td>
</tr>
<tr>
<td>Bryan Gregory</td>
<td>MPhil 2016-</td>
<td>Efficacy of Incontinence-Associated Dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial</td>
<td>Fiona Coyer, Jason Roberts</td>
</tr>
<tr>
<td>Jawana Alawie</td>
<td>Hons 2018-</td>
<td>Institute for skin integrity and infection prevention</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Joash Tan</td>
<td>Hons 2018-</td>
<td></td>
<td>Jason Roberts</td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane-Louise Cook</td>
<td>Project Manager</td>
<td>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. Translating evidenced-based pressure injury prevention into the intensive care environment: the SUSTAIN trial</td>
<td>QUT (2014-2018)</td>
</tr>
<tr>
<td>Anna Doubrovsky</td>
<td>Project Manager</td>
<td>Efficacy of Incontinence-Associated Dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial</td>
<td>QUT (2016-2018)</td>
</tr>
<tr>
<td>Fiona Coyer FM</td>
<td>Visiting Professor</td>
<td>Institute for skin integrity and infection prevention</td>
<td>University of Huddersfield (2016–present)</td>
</tr>
</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Liu</td>
<td>Postdoctoral Research Fellowship</td>
<td>Clinical trials in critical illness (Supervisor: M. Reade)</td>
<td>UQ</td>
</tr>
<tr>
<td>Jeremy Cohen</td>
<td>Honorary Professorial Fellow</td>
<td></td>
<td>The George Institute</td>
</tr>
<tr>
<td>Jason Roberts</td>
<td>NHMRC Practitioner Fellowship</td>
<td>Redefining antibiotic dosing to reduce bacterial resistance</td>
<td>UQ (2017-2021)</td>
</tr>
<tr>
<td>Jason Roberts</td>
<td>Honorary Professor</td>
<td>Redefining antibiotic dosing to reduce bacterial resistance</td>
<td>The University of Liverpool</td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>Adjunct Professor</td>
<td>Infectious Diseases</td>
<td>Queensland University of Technology, 2010–present</td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>Adjunct Professor</td>
<td>Beta-Lactam dosing in critically ill patients</td>
<td>Chinese University of Hong Kong, 2012–present</td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>Adjunct Professor</td>
<td>Beta-Lactam dosing in critically ill patients</td>
<td>University of NSW, 2016–present</td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>Honorary Professorial Research Fellow</td>
<td>Beta-Lactam dosing in critically ill patients</td>
<td>University of the Witwatersrand, 2016–present</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Fiona Coyer FM (Nursing Research and Critical Care)</td>
<td>Jill Campbell (Skin Integrity)</td>
<td>Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial</td>
</tr>
<tr>
<td>Prof Fiona Coyer FM (Nursing Research and Critical Care)</td>
<td>Tony Parker (QUT), Jill Campbell (Skin Integrity), Anna Droubdovsky (QUT)</td>
<td>Biochemical characteristics and healing rates of medical device-related pressure injuries (the MEDICI study); a prospective observational pilot study</td>
</tr>
<tr>
<td>Prof Fiona Coyer FM (Nursing Research)</td>
<td>Stacey Watts (Intensive Care Unit), Jayesh Dhanani (Intensive Care Unit), Samantha Keogh (QUT)</td>
<td>Intensive care point of care testing for arterial gas analyses: The INCEPT audit</td>
</tr>
<tr>
<td>Michael Reade</td>
<td>McCalmom J, Kippen R, Reade MC, Shanks D, Hopper D.</td>
<td>Diggers to Veterans: risk, resilience and recovery in the First AIF</td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>Dulhunty J, Roberts J, Cotta</td>
<td>A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients</td>
</tr>
<tr>
<td>Jason Roberts</td>
<td>Cotta, Roberts J</td>
<td>Optimising ceftriaxone dosing for critically ill patients with severe pneumonia</td>
</tr>
<tr>
<td>Jason Roberts, Jeffrey Lipman</td>
<td>Roberts J, Lipman J</td>
<td>An Observational Pharmacokinetic study of Ceftolozane-Tazobactam in Intensive Care Unit in patients with and without continuous renal replacement therapy</td>
</tr>
<tr>
<td>Jason Roberts, Jeffrey Lipman</td>
<td>Roberts J, Lipman J</td>
<td>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</td>
</tr>
<tr>
<td>O'Donoghue/Roach</td>
<td>Pang G, Pincus J</td>
<td>An Observational Study to assess aspiration risk using gastric ultrasound in ventilated ICU patients prior to extubation</td>
</tr>
<tr>
<td>Jeremy Cohen, David Lui</td>
<td>Cohen J, Lui D</td>
<td>Pharmacokinetics of Transdermal Nicotine replacement therapy patches in the ICU: a prospective observational pharmacokinetic study of nicotine/cotinine concentrations in critically ill smokers receiving transdermal NRT patches</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jason Roberts/Kumta</td>
<td>Kumta N, J Lipman</td>
<td>The Pharmacokinetics of Ceftriaxone, Meropenem, Piperacillin-Tazobactam and Vancomycin in the Cerebrospinal Fluid of Critically Ill Patients with Uninflamed Meninges</td>
</tr>
<tr>
<td>Michael Reade, Cheryl Fourie</td>
<td>Reade M, Fourie C</td>
<td>International prospective observational StudY on iNtrAcranial PreSsurE in intensive care (ICU)</td>
</tr>
<tr>
<td>Jeffrey Lipman / Thomas</td>
<td>Lipman J</td>
<td>A Potential Taste Receptor Association with Myocardial Depression Susceptibility in Treated sEpis</td>
</tr>
<tr>
<td>Jeremy Cohen</td>
<td>Cohen J</td>
<td>A Comparison of the Total and Free Cortisol Response to a Standard Short Synacthen Test in Patients with Traumatic Brain Injury</td>
</tr>
<tr>
<td>Chu</td>
<td>Chu</td>
<td>Timing of Lumbar puncture for the selection of xanthochromia in subarachnoid haemorrhage</td>
</tr>
<tr>
<td>Judith Bellapart</td>
<td>Bellapart J</td>
<td>The prognostication value of plasma Endothelin-1 in sub arachnoid Haemorrhage</td>
</tr>
<tr>
<td>Jason Roberts</td>
<td>Cotta, Roberts J</td>
<td>Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage</td>
</tr>
<tr>
<td>Jeremy Cohen</td>
<td>Cohen J</td>
<td>A prospective multicentre observational study of aneurysmal subarachnoid haemorrhage in Australasian intensive care The PROMOTE-SAH Study</td>
</tr>
<tr>
<td>Denny</td>
<td>Lipman, J / Denny</td>
<td>Recognising Sepsis in SIRS Trial (RESIST)</td>
</tr>
<tr>
<td>Jeremy Cohen</td>
<td>Bala Venkatesh, David Evans, Simon Finer, John Myburgh, Manoj Saxena, Jacobus Ungerer, Carol Pretorius, Brett McWhinny, David Liu, John Moore</td>
<td>Free Cortisol, Aldosterone and Vitamin C in Septic Shock</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachael Bailey (Caboolture Hospital, ICU)</td>
<td>Alexis Tabah (Redcliffe Hospital, ICU), Manesh Ramanen (Redcliffe Hospital, ICU, Prof Fiona Coyer FM (Nursing Research and ICU))</td>
<td>Survey of family visiting in ICU – WELCOME – ICU Study</td>
</tr>
<tr>
<td>Kate Kynoch (Mater Hospital)</td>
<td>Prof Fiona Coyer FM (Nursing Research and ICU), Marian Mitchell (PAH/Gui), Gary Von Dohren (Redcliffe Hospital, ICU)</td>
<td>IVES family visiting study</td>
</tr>
<tr>
<td>Kathleen Finlayson (QUT)</td>
<td>Helen Edwards (QUT), Prof Fiona Coyer FM (Nursing Research)</td>
<td>Validity of laser speckle contrast imaging for assessment of superficial perfusion in the lower limb of patients with vascular leg and foot ulcers</td>
</tr>
<tr>
<td>Stijn Blot (Ghent Uni Belgium)</td>
<td>Sonia Labeau (Ghent Uni Belgium), Prof Fiona Coyer FM (Nursing Research), Wendy Chaboyer (Griffith), Frances Lin (Griffith)</td>
<td>DecubICUs one-day point-prevalence study on pressure injuries in ICUs</td>
</tr>
<tr>
<td>Helen Edwards (QUT)</td>
<td>Kerrie Coleman (Skin Integrity), Patricia Sinasac (TPCH), Kathleen Finlayson (QUT), Prof Fiona Coyer FM (Nursing Research), Christina Parker (QUT), Jessica Schuster (TPCH)</td>
<td>Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model – Protecting Skin Integrity (PSI)</td>
</tr>
<tr>
<td>Winearts</td>
<td>Anthony Holley (RBWH)</td>
<td>Fibrinogen Concentrate vs. Cryoprecipitate</td>
</tr>
<tr>
<td>Monash University</td>
<td>Michael Reade (RBWH), Anthony Holley (RBWH)</td>
<td>Pre-hospital Anti-fibrinolytics for Traumatic Coagulopathy and Haemorrhage (The PATCH Study) A multi-centre randomised, double-blind, placebo-controlled trial of pre-hospital treatment with tranexamic acid for severely injured patients at risk of acute traumatic coagulopathy</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>The George Institute</td>
<td>Jeffrey Lipman (RBWH)</td>
<td>A multi-centre, blinded, randomised, controlled trial (RCT) to determine whether fluid resuscitation and therapy with a “balanced” crystalloid solution (Plasma-Lyte 148®) decreases 90-day mortality in critically ill patients requiring fluid resuscitation when compared to the same treatment with 0.9% sodium chloride (saline)</td>
</tr>
<tr>
<td>Rogers, C</td>
<td>Jason Roberts (RBWH), Jeffrey Lipman (RBWH)</td>
<td>Screening Anti-Fungal Exposure in Intensive Care Units The SAFE-ICU Study An international, multi-centre prospective pharmacokinetic evaluation of antifungal drug exposure in intensive care unit patients receiving conventional dosing regimens</td>
</tr>
<tr>
<td>Eastwood, G</td>
<td>Michael Read (RBWH)</td>
<td>Targeted Therapeutic Mild Hypercapnia After Resuscitated Cardiac Arrest A Phase III Multi-Centre Randomised Controlled Trial</td>
</tr>
<tr>
<td>Merck</td>
<td>Jeffrey Lipman (RBWH), John Gowardman (RBWH)</td>
<td>A Phase III, Randomized, Double-Blind, Active Comparator-Controlled Clinical Trial to Study the Safety, Tolerability, and Efficacy of Imipenem/Cilastatin/Relebactam (MK-7655A) Versus Piperacillin/Tazobactam in Subjects with Hospital-Acquired Bacterial Pneumonia or Ventilator-Associated Bacterial Pneumonia</td>
</tr>
<tr>
<td>Chapman, A</td>
<td>Neil Widdecombe (RBWH)</td>
<td>Validation of a 10-minute spontaneous breathing trial to predict time to circulatory death in organ donation candidates</td>
</tr>
<tr>
<td>AKPA – Asahikasei</td>
<td>John Gowardman (RBWH)</td>
<td>A randomized, dougle-blind, placebo-controlled, phase 3 study to assess the safety and efficacy of ART-123 in subjects with seversis and coagulopathy</td>
</tr>
<tr>
<td>Kwok Ho</td>
<td>Anthony Holley (RBWH)</td>
<td>Detailed assessment of risks and benefits of inferior vena cava filters on patients with complicated injuries (the da Vinci Trial)</td>
</tr>
<tr>
<td>Koulenti, D</td>
<td>Jeffrey Lipman (RBWH)</td>
<td>International Study on No Socomial Pneumonia in Intensive Care An international multi-centre prospective observational cohort study of nosocomial pneumonia in intensive care units</td>
</tr>
<tr>
<td>Monash University</td>
<td>O’Donoghue</td>
<td>Early Goal Directed Sedation vs. Standard Care Sedation Sedation Practices in Intensive Care Evaluation: SPICE III: A Prospective Multicentre Randomised Controlled Trial of Early Goal Directed Sedation Compared with Standard Care in Mechanically Ventilated Patients in Intensive Care</td>
</tr>
<tr>
<td>Paterson/Harris/Schiebusch/</td>
<td>Jeffrey Lipman (RBWH)</td>
<td>Assessing the effects of antibiotic choice on gut microbiota of ICU pts – a metagenomic approach</td>
</tr>
<tr>
<td>Bala Venkatesh</td>
<td>Jeremy Cohen (RBWH)</td>
<td>Vascular Responsiveness in Shock</td>
</tr>
<tr>
<td>David Evans</td>
<td>Jeremy Cohen (RBWH)</td>
<td>Gene Expression in Septic Shock</td>
</tr>
<tr>
<td>Antje Blumenthal</td>
<td>Jeremy Cohen (RBWH)</td>
<td>WNT Expression in Sepsis</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Fiona Coyer FM (Nursing Research/Intensive Care Services)</td>
<td>Vice-Chancellor’s Award for Excellence</td>
<td>2018 Vice-Chancellor’s Award for Excellence ceremony, Queensland University of Technology, 20 July 2018</td>
</tr>
<tr>
<td>Michael Reade</td>
<td>Best Military-Academic Collaboration (Frozen platelet trial)</td>
<td>United States Military Health Symposium</td>
</tr>
<tr>
<td>Michael Reade</td>
<td>Elected a Bragg Fellow, Royal Institution of Australia</td>
<td></td>
</tr>
<tr>
<td>Jeffrey Lipman</td>
<td>2018 Warwick Parer Award for outstanding contribution to RBWH Medical Research</td>
<td>RBWH and RBWH Foundation Awards 2018</td>
</tr>
</tbody>
</table>
### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryan Gregory, Dwarakanathan Ranganathan, Fiona Coyer FM</td>
<td>Renal Medicine, Nursing and Midwifery Research Centre, Department of Intensive Care Services</td>
<td>The effects of renal replacement therapy on immunosuppressive drug concentrations</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Jill Campbell, Judith Eddy, Andrea Garrett, Kerri Coleman, Maree Grier, Cara Masterson, Fiona Coyer FM</td>
<td>Skin Integrity, Gynaecology Department, Gynaecology Oncology Department, Psychology Department, Physiotherapy Department, Nursing &amp; Midwifery Research Centre</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery; a feasibility study</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$13,322.66</td>
<td>$39,998 (2017-2019)</td>
</tr>
<tr>
<td>Kathleen Finlayson, Helen Edwards, Fiona Coyer FM</td>
<td>Critical Care and Clinical Support Services</td>
<td>Validity of laser speckle contrast imaging for assessment of superficial perfusion in the lower limb of patients with vascular leg and foot ulcers</td>
<td>QUT Institute of Health and Biomedical Innovation Mid-Career Research Grant</td>
<td>$9,554</td>
<td>$9,554 (2018)</td>
</tr>
<tr>
<td>Fiona Coyer FM, Tony Parker, Jill Campbell, Anna Doubrovsky</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Skin Integrity Services, Queensland University of Technology</td>
<td>Biochemical characteristics and healing rates of medical device-related pressure injuries (the MEDICI study); a prospective observational pilot study</td>
<td>Queensland University of Technology, School of Nursing Pilot Grant</td>
<td>$30,000</td>
<td>$30,000 (2018)</td>
</tr>
<tr>
<td>Fiona Coyer FM, Stacey Watts, Jayesh Dhani, Samantha Keogh</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Queensland University of Technology</td>
<td>Intensive care point of care testing for arterial gas analyses: the INCEPT audit</td>
<td>Queensland University of Technology, New Professor Grant</td>
<td>$25,000</td>
<td>$25,000 (2018)</td>
</tr>
<tr>
<td>Liu D, Pinicus J, Halt E, Reade MC</td>
<td>Michael Reade / Intensive Care</td>
<td>Clonidine at Low Dosage postoperatively to Nocturnally Enhance Sleep (CLONES) phase II pilot trial</td>
<td>RBWH Foundation</td>
<td>$45,000</td>
<td>$45,000 (2018)</td>
</tr>
<tr>
<td>Therese Starr</td>
<td>Intensive Care Services</td>
<td>Equipment request – centrifuge</td>
<td>Private Practice fund</td>
<td>$9,222.40</td>
<td>$9222.40 (2018)</td>
</tr>
<tr>
<td>Reed S, Jeffrey Lipman, Roberts JA, David Paterson, McCombe P, Wallis S</td>
<td>Intensive Care Services</td>
<td>Ion Mobility Separation of challenging clinical samples</td>
<td>University of Queensland Major Equipment and Infrastructure and NHMRC Equipment Grant</td>
<td>$84,983</td>
<td>$84,983 (2018-2019)</td>
</tr>
<tr>
<td>Blaskovich M, Cooper M, Hansford K, Jason Roberts, David Paterson</td>
<td>Intensive Care Services</td>
<td>Lipopeptide antibiotics for XDR Gram-negative infections</td>
<td>NHMRC Development Grant</td>
<td>$331,632</td>
<td>$994,897.15 (2018-2020)</td>
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</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
</table>

2018 Research Publications

Journal Articles:

12. Reade MC & Liu D. Optimising sleep in the ICU. ICU Management, 3-2018, 200-204
15. Cap AP, Badloe J, et al. incl. Reade MC. The use of frozen and deglycerolized red blood cells. Military Medicine, 2018; 183 (Suppl. 2): 52-54
18. Widdicombe N & Reade MC. Did epinephrine increase the number of organ donors after cardiac arrest? New England Journal of Medicine, in press, accepted 01 DEC 18
21. Woolley T, Stranedian R, et al. incl. Reade MC. Trauma Hemostasis and Oxygenation Research (THOR) Network position paper on the role of hypotensive resuscitation as part of remote damage control resuscitation. Journal of Trauma and Acute Care Surgery, 2018; 84(6), S3-S13


Cook DA, Widicombe N. Audit of ten years of donation after circulatory death experience in Queensland: observations of agonal physiology following withdrawal of cardiorespiratory support. *Anaesth Intensive Care*. 2018 Jul;46(4):400-403


Journal Articles: (cont):


74. Recovery rates of combination antibiotic therapy using in vitro microdialysis simulating in vivo conditions Dhanani, Jayesh A.| Parker, Suzanne L| Chan, Hak-Kim| Tang, Patricia| Ahern, Benjamin| J, Khan, Adeel| Bhattacharjee, Suchi| Goodman, Steven| Diab, Sara| Chaudhary, Jivash| Lipman, Jeffrey| Wallis, Steven C.| Barnett, Adrian| Che, Michelle| Fraser, John F| Roberts, Jason A. Journal of Pharmaceutical Analysis


77. Characterisation of 40 mg/ml and 100 mg/ml tobramycin formulations for aerosol therapy with adult mechanical ventilation Dhanani, Jayesh A| Tang, Patricia| Wallis, Steven C| Parker, Suzanne L| Pandey, Preeti| Fraser, John F| Cohen, Jeremy| Barnett, Adrian| Roberts, Jason R| Chan, Hak-Kim Pulmonary Pharmacology and Therapeutics


83. Tenorio-Cañamás T, Grau S, Luque S, Fortún J, Líaño F, Roberts JA. Pharmacokinetics of micaflunin in critically-ill patients receiving continuous veno-venous hemodialysis with high cut-off membranes. Ther Drug Monit 2018; in press (date accepted 24th October 2018; TDM018-095)


Journal Articles: (cont):
Lack of recognition and treatment of pain for people with incontinence-associated...
Invited Speaker: (cont):

12. Marks DC, Johnson L, Reade MC. Cold stored and cryopreserved platelets. Blood conference (combined Annual Scientific Meeting of the Haematology Society of Australia and New Zealand, Australian and New Zealand Society of Blood Transfusion, and the Thrombosis and Haemostasis Society of Australia and New Zealand), Brisbane, 2018

13. Reade MC. Military trauma: what might not translate into civilian practice? Australasian Trauma Society annual scientific meeting, Perth, 2018


17. Reade MC. The golden hour is fool's gold – so what trauma metric should we use? 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018

18. Reade MC. We need to co-enrol patients in trials. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018

19. Reade MC. Chemical warfare. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018

20. Reade MC. The SOSD phases of fluid management: salvage. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018


22. Reade MC. Military trauma registries are more than informative. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018

23. Reade MC. Lyophilised plasma and other new resuscitation options. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2018

24. Reade MC. The SYNAPSE observational study of intracranial pressure monitoring. ANZICS Clinical Trials Group Annual Meeting on Clinical Trials in Intensive Care, Noosa, 2018

25. Reade MC. Replacing the NATO 10:1:2 trauma metric with a 1:1 goal. Queensland Trauma Symposium, Brisbane, 2018

26. Reade MC. Clinical research is possible virtually anywhere – even during a war. Australian Academy of Health and Medical Sciences Clinical Science Symposium, Brisbane, 2018


28. Roberts JA. “Therapeutic Drug Monitoring of beta-lactams in ICU – is this ready for prime time?” Antimicrobial Pharmacokinetic-Pharmacodynamics (PKPD) Workshop, Kuala Lumpur, Malaysia, September 2018

29. Roberts JA. “Antibiotic dosing and optimization”. Antibiotic Masterclass, University of Malaya, Kuala Lumpur, Malaysia, September 2018

30. Roberts JA. “Meet the Expert: Treating the treatment: infections in critically ill patients requiring ECMO” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

31. Roberts JA. “Do we need beta-lactam TDM or can we just use prolonged infusions?” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

32. Roberts JA. “Challenging breakpoints with supranormal dosing: where is the limit in terms of side effects with higher dosing, and can toxidynamics help?” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

33. Roberts JA. “Posaconazole table and IV formulation: Clinical and Real World Evidence Overview” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

34. Lipman J. MASTER CLASS: KEY ISSUES IN SEPTIC SHOCK – “Using biomarkers in sepsis management”. Euro Asia European Society of Intensive Care Medicine, Hong Kong, 2018

35. Lipman J. MASTER CLASS: AKI AND RRT – “Drug dosing during RRT”. Euro Asia European Society of Intensive Care Medicine, Hong Kong, 2018


37. Lipman J. 34th World Congress of Internal Medicine, Cape Town, South Africa, October 2018

38. Lipman J. 31st Annual European Society of Intensive Care Medicine Meeting, Paris, France, October 2018

Oral Presentations:
1. Reade MC. Cryopreserved Platelets for Surgical Bleeding: Protocol for the CLIP-II Trial based on CLIP-I Pilot Data. American Association of Blood Banks Annual Congress, Boston, 2018. (Plenary session; ranked in top 1% of 600 abstracts accepted for presentation)
2. Reade MC. The Cryopreserved vs. Liquid Platelets trial (CLIP-II) protocol and practical implications. Australian and New Zealand College of Anaesthetists Clinical Trial Network Strategic Research Workshop, Sydney, 2018. (ranked the top proposal presented at the meeting)
5. The Steroid Story ANZICS ACCN ASM 2018 Adelaide. Cohen J.

Poster Presentations:
1. Simonova G, Marks DC, Johnson L, Reade MC, Tung JP. Characterisation of microparticles present in cryopreserved sheep platelet concentrates Blood conference, Brisbane, 2018
2. Simonova G, Marks DC, Johnson L, Reade MC, Tung JP. Sheep platelet microparticles: comparison to human platelet microparticles and investigation of storage-associated changes. Blood conference, Brisbane, 2018

Other communications and outputs:
Grant Reviews
Jason Roberts
1. French Ministry of Health Clinical Research Program, Grant Reviewer, Bureau Innovation et Recherche Clinique, 2018
2. Finovi, Foundation Innovations In Infection, External Grant Reviewer, University of Lyon, France, 2018
3. Thesis Reviewer, PhD, University of Technology Sydney, Australia, 2018
4. Intensive Care Foundation, Grant Reviewer, 2018
5. NHMRC Practitioner Fellowship Panel, Panel member, 2018.

Media Activities
Jason Roberts
Nursing and Midwifery Services, Intensive Care Services – Prof Fiona Coyer

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hajar Alasmari</td>
<td>PhD, Queensland University of Technology (2012-2018)</td>
<td>Examining Intensive Care Nurses’ Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Sonia Hines</td>
<td>PhD, Queensland University of Technology</td>
<td>An educational intervention to improve nurses’ research literacy</td>
<td>Prof Joanne Ramsbotham, Prof Fiona Coyer,</td>
</tr>
<tr>
<td>Sandra Johnston</td>
<td>PhD, Queensland University of Technology</td>
<td>Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education</td>
<td>Prof Fiona Coyer, Prof Robyn Nash</td>
</tr>
<tr>
<td>Lizzanne Dalgleish</td>
<td>PhD, Queensland University of Technology</td>
<td>The role of microcirculatory dysfunction and skin breakdown in the critically ill</td>
<td>Prof Fiona Coyer, Dr Jill Campbell, Dr Kathy Finlayson, Prof Andre VanZundert</td>
</tr>
<tr>
<td>Adrianna Hada</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Transforming patient outcomes through improved and effective nursing clinical handover</td>
<td>Prof Fiona Coyer, Dr Leanne Jack</td>
</tr>
<tr>
<td>Paul Jarrett</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Administration of antibiotics in the intensive care unit</td>
<td>Prof Fiona Coyer, Prof Sam Keogh, Prof Jason Roberts</td>
</tr>
<tr>
<td>Anthony Batterbury</td>
<td>PhD, Queensland University of Technology (2018-2023)</td>
<td>How sick is too sick and how heavy too heavy? Quantifying the clinical acuity and dependency of ward patients whom have triggered emergency response systems in order to understand service delivery boundaries and define thresholds for escalation or resource mobilisation</td>
<td>Prof Fiona Coyer, Clint Douglas</td>
</tr>
<tr>
<td>Hannauh Rheault</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: a mixed method study</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Leanne Stone</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Comparing “Magnet” attributes in nursing between Australia and the United States</td>
<td>Prof Fiona Coyer, Prof Ray Chan, Prof Alexandra McCarthy</td>
</tr>
<tr>
<td>Bryan Gregory</td>
<td>PhD, Queensland University of Technology (2018-2022)</td>
<td>The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury</td>
<td>Prof Fiona Coyer, Prof Jason Roberts, Prof Ann Bonner</td>
</tr>
<tr>
<td>Jessica Ingleman</td>
<td>Masters of Applied Science (Research), Queensland University of Technology (2016-)</td>
<td>Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)</td>
<td>Prof Fiona Coyer, Dr Christina Parker</td>
</tr>
<tr>
<td>David McIntyre</td>
<td>PhD, Queensland University of Technology (2016-)</td>
<td>Developing and validating haemodialysis nurse-sensitive indicators</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jessica Ingleman</td>
<td>Project Manager</td>
<td>The effect of time spent in a position on critically ill patient’s skin: the EXTREME pressure 2 study.</td>
<td>QUT (2014-2018)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Extreme pressure study: exploring pressures, tissue reperfusion and body positioning – a pilot evaluation among critically ill patients</td>
<td></td>
</tr>
<tr>
<td>Jane-Louise Cook</td>
<td>Project Manager</td>
<td>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 Translating evidenced-based pressure injury prevention into the intensive care environment: the SUSTAIN trial</td>
<td>QUT (2014-2018)</td>
</tr>
<tr>
<td>Anna Doubrovsky</td>
<td>Project Manager</td>
<td>Efficacy of Incontinence-Associated Dermatitis intervenTionS for critically ill patients in intensive care; the Distinct pilot randomised control trial</td>
<td>QUT (2016-2018)</td>
</tr>
<tr>
<td>Fiona Coyer</td>
<td>Visiting Professor</td>
<td>Institute for skin integrity and infection prevention</td>
<td>University of Huddersfield (2016-present)</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Fiona Coyer (Nursing Research and Critical Care)</td>
<td>Jill Campbell (Skin Integrity)</td>
<td>Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial</td>
</tr>
<tr>
<td>Prof Fiona Coyer (Nursing Research and Critical Care)</td>
<td>Tony Parker (QUT), Jill Campbell (Skin Integrity), Anna Doubrovsky (QUT)</td>
<td>BiocheMical characteristics and hEaling rates of medical device-related pressure Injuries (the MEDICI study); a prospective observational pilot study</td>
</tr>
<tr>
<td>Prof Fiona Coyer (Nursing Research)</td>
<td>Stacey Watts (Intensive Care Unit), Jayesh Dhanani (Intensive Care Unit), Samantha Keogh (QUT)</td>
<td>Intensive care point of care testing for arterial gas analyses; the INCEPT audit</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachael Bailey (Caboolture Hospital, ICU)</td>
<td>Alexis Tabah (Redcliffe Hospital, ICU), Manesh Ramanen (Redcliffe Hospital, ICU), Prof Fiona Coyer (Nursing Research and ICU)</td>
<td>Survey of family visiting in ICU – WELCOME – ICU Study</td>
</tr>
<tr>
<td>Kate Kynoch (Mater Hospital)</td>
<td>Prof Fiona Coyer (Nursing Research &amp; ICU), Marian Mitchell (PAH/GU), Gary Von Dohren (Redcliffe Hospital, ICU)</td>
<td>IvES family visiting study</td>
</tr>
<tr>
<td>Kathleen Finlayson (QUT)</td>
<td>Helen Edwards (QUT), Prof Fiona Coyer (Nursing Research)</td>
<td>Validity of laser speckle contrast imaging for assessment of superficial perfusion in the lower limb of patients with vascular leg and foot ulcers</td>
</tr>
<tr>
<td>Stijn Blot (Ghent Uni Belgium)</td>
<td>Sonia Labeau (Ghent Uni Belgium), Prof Fiona Coyer (Nursing Research), Wendy Chaboyer (Griffith), Frances Lin (Griffith)</td>
<td>DecubIcUs one-day point-prevalence study on pressure injuries in ICUs</td>
</tr>
<tr>
<td>Helen Edwards (QUT)</td>
<td>Kerrie Coleman (Skin Integrity), Patricia Sinasac (TPCH), Kathleen Finlayson (QUT), Prof Fiona Coyer (Nursing Research), Christina Parker (QUT), Jessica Schluter (TPCH)</td>
<td>Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model – Protecting Skin Integrity (PSI)</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Fiona Coyer (Nursing Research/Intensive Care Services)</td>
<td>Vice-Chancellor’s Award for Excellence</td>
<td>2018 Vice-Chancellor’s Award for Excellence ceremony, Queensland University of Technology, 20 July 2018</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryan Gregory, Dwarakanathan Ranganathan, Fiona Coyer</td>
<td>Renal Medicine, Nursing and Midwifery Research Centre, Department of Intensive Care Services</td>
<td>The effects of renal replacement therapy on immunosuppressive drug concentrations</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Jill Campbell, Judith Eddy, Andrea Garrett, Kerri Coleman, Maree Grier, Cara Masterson, Fiona Coyer</td>
<td>Skin Integrity, Gynaecology Department, Gynaecology Oncology Department, Psychology Department, Physiotherapy Department, Nursing and Midwifery Research Centre</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery; a feasibility study</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$13,332.66</td>
<td>$39,998 (2017-2019)</td>
</tr>
<tr>
<td>Kathleen Finlayson, Helen Edwards, Fiona Coyer</td>
<td>Critical Care and Clinical Support Services</td>
<td>Validity of laser speckle contrast imaging for assessment of superficial perfusion in the lower limb of patients with vascular leg and foot ulcers</td>
<td>QUT Institute of Health and Biomedical Innovation Mid-Career Research Grant</td>
<td>$9,554</td>
<td>$9,554 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiona Coyer, Tony Parker, Jill Campbell, Anna Doubrovsky</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Queensland University of Technology</td>
<td>Biochemical characteristics and healing rates of medical device-related pressure injuries (the MEDICI study); a prospective observational pilot study</td>
<td>Queensland University of Technology, School of Nursing Pilot Grant</td>
<td>$30,000</td>
<td>$30,000 (2018)</td>
</tr>
<tr>
<td>Fiona Coyer, Stacey Watts, Jayesh Dhaní, Samantha Keogh</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Queensland University of Technology</td>
<td>Intensive care point of care testing for arterial gas analyses: the INCEPT audit</td>
<td>Queensland University of Technology, New Professor Grant</td>
<td>$25,000</td>
<td>$25,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

The Professor Tess Cramond Multidisciplinary Pain Centre (PTCMPC) has continued to build research involvement and collaborations throughout 2018. It is the vision of this Centre to continue this growth.

The Highlights for 2018 were:

- Dr Nicole Andrews (Occupational Therapist) being awarded a ‘Rising Star Award’ at the 2018 Metro North Research Excellence Awards evening on 22 May 2018. This was a well-deserved award as she continues her work in developing and validating an activity App to be used in patients with persistent pain. Dr Andrews is involved in many other research initiatives that are detailed in this report.

- A new collaboration in 2018 is with the Occupational Therapy Department and this includes research projects around virtual reality distraction during dressing changes in the burn-injured patient and a PhD on ‘Is sensory sensitivity a factor in non-adherence with compression garments post-burn’.

- A further collaboration from 2018 is with the Trauma Service looking at, ‘An investigation of the prevalence, impact, and management of chronic pain post trauma at a tertiary public hospital’. Further work in this area will look at opioid stewardship following major trauma.

The PTCMPC is excited and committed to developing new and ongoing research initiatives and collaborations. This is especially so as the Centre prepares for the move to the Surgical, Treatment and Rehabilitation Services building in 2020.

**Supervised Post-Graduate Research Students**

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genevieve O’Donoghue</td>
<td>PhD CQU (2018-2020)</td>
<td>Couples, attachment and chronic pain</td>
<td>Pamela Meredith (CQU), Jenny Strong (OT), Nicole Andrews</td>
<td></td>
</tr>
<tr>
<td>Erin Molloy</td>
<td>MPhil (2018 – present)</td>
<td>Is sensory sensitivity a factor in non-adherence with compression garments post-burn</td>
<td>Pamela Meredith (CQU), Jenny Strong (OT), Paul Gray</td>
<td></td>
</tr>
<tr>
<td>Siti Sarah Fazalul Rahiman</td>
<td>PhD (2013-2017)</td>
<td>The potential role of DYN A (1-17) fragments as an immunotherapeutic target in peripheral inflammation. Research based at PACE</td>
<td>Peter Cabot, Paul Gray</td>
<td></td>
</tr>
</tbody>
</table>

**2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews</td>
<td>Postdoctoral Research Fellow, RBWH Postdoctoral Research Fellow</td>
<td>RECOVER Injury Research Centre, Towards understanding how much activity is too much for individuals with chronic pain</td>
<td>The University of Queensland (2018-2019)</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews</td>
<td>Marlien Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Towards understanding how much is too much for individuals with chronic pain</td>
</tr>
<tr>
<td>Nicole Andrews</td>
<td>Belinda Long (OT), Jenny Strong (OT), Sue Laracy (OT)</td>
<td>Evaluation of occupational therapy interventions within the orthopaedic physiotherapy screening clinic</td>
</tr>
<tr>
<td>Nicole Andrews</td>
<td>Olivia Zheng (Trauma Service), Jodie Ross (Trauma Service), Venerina Johnston (UQ), Elise Gane (UQ), Esther Smits (UQ), Charlotte Brakenridge (UQ), Paul Gray, Michael Rudd (Trauma Service)</td>
<td>An investigation of the prevalence, impact, and management of chronic pain post trauma at a tertiary public hospital</td>
</tr>
<tr>
<td>Robyn Scheer (OT)</td>
<td>Nicole Andrews, Erin Molloy (OT)</td>
<td>The effect of limb position on leg circumference measurements in patients diagnosed with lower limb lymphoedema</td>
</tr>
<tr>
<td>Erin Molloy</td>
<td>Pamela Meredith (CQU), Jenny Strong (OT), Paul Gray</td>
<td>Is sensory sensitivity a factor in non-adherence with compression garments post-burn</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlotte Brakenridge (UQ), Venerina Johnston (UQ), Esther Smits (UQ), Elise Gane (UQ)</td>
<td>Nicole Andrews</td>
<td>Impact of interventions on work-related outcomes for individuals with musculoskeletal injuries after road traffic crash: a systematic review protocol</td>
</tr>
<tr>
<td>Elise Gane (UQ), Venerina Johnston (UQ), Esther Smits (UQ), Charlotte Brakenridge (UQ)</td>
<td>Nicole Andrews</td>
<td>Exploring the perspectives of key stakeholders in return to work after road traffic crash</td>
</tr>
<tr>
<td>Esther Smits (UQ), Venerina Johnston (UQ), Charlotte Brakenridge (UQ), Elise Gane (UQ)</td>
<td>Nicole Andrews</td>
<td>Recovery following a road traffic crash – a Delphi Study</td>
</tr>
<tr>
<td>Jessica Thackeray (UQ), Sophie Bowen (UQ), Cory Poll (UQ), Pamela Meredith (CQU)</td>
<td>Jenny Strong (OT), Nicole Andrews</td>
<td>“Can Sensory- and Attachment-Informed approaches be used to modify perceptions of pain?”</td>
</tr>
<tr>
<td>Louise Burgess (Bournemouth University, UK), Thomas Wainwright (Bournemouth University, UK)</td>
<td>Nicole Andrews</td>
<td>What is the evidence for occupational therapy interventions in general surgical pathways and do they have a role in ERAS pathways? A systematic review.</td>
</tr>
<tr>
<td>Lynn DeBar (Kaiser Permanente Centre for Health Research, Portland, USA), Meghan Mayhew (Kaiser Permanente Centre for Health Research, Portland, USA)</td>
<td>Nicole Andrews</td>
<td>PPACT Administrative Supplement for Research on Sleep Disturbances and Impact on Chronic Pain</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews</td>
<td>Rising Star Award</td>
<td>2018 Metro North Research Excellence Awards, 22 May 2018</td>
</tr>
</tbody>
</table>
## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
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<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Andrews, Marlien Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Occupational Therapy, OPSC, and the Professor Tess Cramond Multidisciplinary Pain Centre</td>
<td>The development and implementation of a mobile health platform to support activity pacing implementation in chronic pain</td>
<td>Metro North LINK funding scheme</td>
<td>$7,137</td>
<td>$60,000 (2017-2018)</td>
</tr>
<tr>
<td>Erin Molloy (OT), Paul Gray, Amber Jones (OT)</td>
<td>OT/Pain</td>
<td>Immersive virtual reality in immersive wound care</td>
<td>CAHRLI Innovation Challenge 2017-2018</td>
<td>$2,000</td>
<td>$2,000 (2018)</td>
</tr>
<tr>
<td>Nicole Andrews, Marlien Varnfield (CSIRO), David Ireland (CSIRO)</td>
<td>Occupational Therapy, OPSC, and the Professor Tess Cramond Multidisciplinary Pain Centre</td>
<td>The development and implementation of a mobile health platform to support activity pacing implementation in chronic pain</td>
<td>RBWH Foundation Postdoctoral Fellowship</td>
<td>$50,000</td>
<td>$50,000 (2018)</td>
</tr>
<tr>
<td>Julia Lee, Paul Gray, Rebecca Kimble</td>
<td>Department of Anaesthesia and Perioperative Medicine</td>
<td>ROTEM and platelet function in pre-eclamptic obstetric patients</td>
<td>CSL Behring ANZCA Research Award</td>
<td>$70,000</td>
<td>$70,000 (2018)</td>
</tr>
</tbody>
</table>

## 2018 Research Publications

**Journal Articles:**

## 2018 Conference Presentations – Invited Speaker, Oral and Poster

**Invited Speaker:**
1. Andrews N. Overactivity in chronic pain: myth or reality? 17th World Congress on Pain, September 2018
2. Andrews N. The development and implementation of a mobile health platform to support activity pacing in chronic pain. Australian Pain Society 38th and New Zealand Pain Society Conjoint Annual Scientific Meeting, April 2018

**Oral Presentations:**

**Poster Presentations:**
Skin Integrity Services

Skin Integrity Services are involved in wide ranging research into all aspects skin integrity and wound management – pathophysiology, diagnostics and interventions.

Skin Integrity Services undertakes its own research activities and partners with researchers from a number of Australian Universities.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerrie Coleman</td>
<td>PhD Candidate, CQU</td>
<td></td>
<td>The lived experience of intimacy as described by persons living with chronic wounds</td>
<td>Professor Kerry Reid-Searl, Dr Matt Eliot</td>
</tr>
<tr>
<td>Lizanne Dalgliesh</td>
<td>PhD Candidate, QUT</td>
<td></td>
<td></td>
<td>Jill Campbell</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

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<th>Type of Fellowship</th>
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<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monica Stankiewicz</td>
<td>Honorary Research Fellow</td>
<td>RBWH</td>
<td>QUT</td>
</tr>
<tr>
<td>Dr Jill Campbell</td>
<td>Visiting Fellow</td>
<td>QUT</td>
<td></td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

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<tbody>
<tr>
<td>Dr Jill Campbell</td>
<td>Kerrie Coleman, Kathy Hocking</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery; a feasibility study. The Optimise study</td>
</tr>
<tr>
<td>Dr Jill Campbell</td>
<td>Brigid Gillespie, Rachel Walker, Wendy Chaboyer, Marie Cooke, and Jennifer Whitty, Al: Lukman Thalib, Sharon Latimer, Donna McLean, Rosalind Probert</td>
<td>Efficacy and Effectiveness of Prophylactic ICam dressings in the prevention of saCr al pressure injuries in at-risk hospitalised patients: the EEPOC Trial. National Health and Medical Research Council (NHMRC) Project Grant (2018)</td>
</tr>
<tr>
<td>Dr Dianne Smith</td>
<td>Kerrie Coleman</td>
<td>ELECT, Randomised Controlled Trial comparing wound healing with compression therapy to Electrical Stimulation La Trobe University – recruitment underway</td>
</tr>
<tr>
<td>Dr Dianne Smith</td>
<td>Kerrie Coleman</td>
<td>Feasibility study Perfusion measures matched up with clinical assessment of CVI and PAD; using a laser speckle contrast imaging camera – associate investigator; Principle Investigator Professor Helen Edwards QUT</td>
</tr>
<tr>
<td>Kerrie Coleman</td>
<td>Pat Sinasac; Dr Alison Mudge</td>
<td>Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model – protecting Skin Integrity (PSI) – Associate Investigator; Principle Investigator Kathleen Finlayson QUT</td>
</tr>
<tr>
<td>Dr Dianne Smith</td>
<td>Kerrie Coleman</td>
<td>An adaptive trial of the effectiveness of topical anti-inflammatory agents on pain in patients with chronic venous leg ulcers: pilot study Principle Investigator Kathleen Finlayson QUT (QUT recruiting)</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

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<tr>
<th>Investigators</th>
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<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jill Campbell</td>
<td>Skin Integrity Services</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery; a feasibility study. The Optimise study</td>
<td>RBWH Foundation Project Grant</td>
<td>$39,000</td>
<td>$39,000 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:

1. Webster, J., Scuffham, P., Stankiewicz, M., & Chaboyer, W. P. Negative pressure wound therapy for skin grafts and surgical wounds healing by primary intention. The Cochrane Library. Current review – accepted and awaiting publication 2018


Invited Speaker


Other Communications and Outputs:

Dr Jill Campbell – author for Cochrane Nursing Care Field. Three Cochrane Review summaries under review.

Dr Jill Campbell recipient of the Janelle and Robert Bird Early Career Fellowship RBWH Foundation.

Elect Trial (LaTrobe – recruiting)
Speckle (QUT – awaiting ethics)
FICLUS (QUT – completed)
PSI (QUT – underway)
Anti-inflammatory dressings trial (QUT recruiting)

Dr Jill Campbell is the lead AI for RBWH for the following project.

Internal Medicine Services has a deep history of involvement in advancing healthcare through research. This is achieved through the tireless efforts of dedicated staff across many disciplines and in all departments. In 2018, collaborations continued to be strong with our university and industry partners, as well as historical links with other health care providers and facilities both in Queensland and across Australia. IMS researchers also have many international collaborators that ensure that our contributions are benefiting not only our own patients, but also health care across the globe.

Having an active research culture not only adds to the body of knowledge of health care, however, also allows our patients to be involved in the latest therapies and diagnostics, have access to the newest medicines, and also to the best models of care under tight monitoring conditions.

IMS staff across all disciplines actively participate and share their research outcomes within the RBWH Symposium, national and international conferences, publications and health forums. The IMS Research teams have received many grants and awards to support their research endeavours through the, RBWH Foundation Research Awards, Special Grants and funding from sources such as NHMRC, among others.

Each department has highlighted their Research achievements, listed those staff involved, documented their publications and presentations and nominated Post Graduate Research Students. This exhaustive list, while extremely impressive, still does not highlight the hours and hours of work that goes into each and every piece of research that is undertaken within this campus. On behalf of the IMS Executive team I would like to express our acknowledgment and gratitude for all staff within Internal Medicine Services that contribute to the Research outcomes that benefit our patients. We are all very proud of your achievements.
Department of Cardiology

About this service:
The cardiology department has a broad investigator-driven research program with a focus on health service research/evaluation. Much of this research has grown from the efforts of clinicians to improve models of care with interdisciplinary collaboration.

Highlights of 2018:
A telehealth model of stress testing and Holter monitoring has been developed through innovation funding to provide services to regional centres throughout Queensland, where the joint supervision and reporting of tests is provided by RBWH Cardiology staff through video link.

To promote ongoing education of doctors and cardiac scientists, the inaugural Cardiac Imaging in Cardiomyopathies and Heart Failure meeting, showcasing the expertise built up around the state-wide Cardiomyopathy clinic at the RBWH, was held at the Edwin Tooth Centre, and drew delegates from other states as well as New Zealand.

We have unique cardiac obstetric (collaboration with Internal Medicine and Obstetric Medicine) and cardiac genetic (collaboration with Genetic Health Queensland) clinics that receive state-wide referrals.

Other research interests include chest pain evaluation (collaboration with Emergency and Internal Medicine departments), using salivary biomarkers to detect presymptomatic heart disease (collaboration with QUT), and investigating the feasibility of training nurses to perform echocardiography to assess left ventricular function.

Benefits for clinical practice:
Tele-stress testing and Holter monitoring has reduced waiting times, increased access and improved service quality for regional centres. Accelerated Chest Pain Risk Evaluation (ACRE) is being actively translated into clinical practice throughout Queensland. We have a Cardiac Catheter Laboratory database with comprehensive mandatory complication tracking, which informs the Queensland Cardiac Outcomes Registry. We informed the development of the Heart Failure Reporting Outcomes (NERO) 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
- Metro North Heart Lung Executive
- Associate Editor, Heart Lung Circulation (2 staff members)
- Editorial board for Cardiac Failure Review
- Editorial board for Medicine Today
- Editorial board for Cardiology Today
- Associate Cardiac Editor, Australasian Journal of Ultrasound in Medicine
- European Cardiac Obstetric Registry (only Australian representative)
- 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 Scientific Committee
- CSANZ Queensland Regional Secretary
- European Society of Cardiology Congress Abstract Review Committee
- Medicare Benefits Schedule Review Cardiac Services Clinical Committee
- Australian Government Department of Health Clinical Quality Registries Expert Advisory Group
- Australian Genomics Health Alliance- Cardiovascular Genetic Disorders Flagship
- Australian Cardiac Genetic Testing (AGCT) collaborative
- Australia and New Zealand Alliance for Cardiovascular Trials Scientific Advisory Committee
- Brisbane Diamantina Health Partners Evidence and Innovation in Clinical Care Theme Leadership Group
- Queensland Heart Failure Service Steering Committee (Co-chair)
- Queensland Cardiovascular Research Network Steering Committee.
### Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roberts, Tiffany</td>
<td>MPhil</td>
<td></td>
<td>Rural Hospital Chart Audit on Cardiac Investigations</td>
<td>Adam Scott, Robert Mullins</td>
</tr>
<tr>
<td>Martin, Curtis</td>
<td>Honours</td>
<td></td>
<td>Remote Control Exercise Stress Testing</td>
<td>Adam Scott</td>
</tr>
<tr>
<td>Poulter, Rohan</td>
<td>PhD, UQ (from 2012) (part-time, deferred)</td>
<td></td>
<td>Evaluating the diagnostic performance of dual energy cardiac computed tomography</td>
<td>John Atherton, John Younger</td>
</tr>
<tr>
<td>Lo, Ada</td>
<td>PhD, UQ (from 2014) (part-time)</td>
<td></td>
<td>Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression</td>
<td>John Atherton, Arnold Ng, William Wang, Kristyan Guppy-Coles, Sandhir Prasad</td>
</tr>
<tr>
<td>Lancini, Daniel</td>
<td>PhD, UQ (from 2015) (part-time)</td>
<td></td>
<td>Atrial fibrillation in the hospital setting</td>
<td>Paul Martin, Sandhir Prasad, John Atherton, Louise Cullen, Robert Boots</td>
</tr>
<tr>
<td>Prasad, Sandhir</td>
<td>PhD, UQ (from 2017) (part-time)</td>
<td></td>
<td>Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis</td>
<td>John Atherton, John Younger, Kristyan Guppy-Coles</td>
</tr>
<tr>
<td>Conradie, Andre</td>
<td>MPhil, UQ (from 2016) (part-time)</td>
<td></td>
<td>Determining an absolute risk model (calculator) to optimise the use of DAPT in patients presenting with acute coronary artery syndromes. use of DAPT in patients presenting with acute coronary artery syndromes</td>
<td>John Atherton, Stephen Worthley, D Eccleston</td>
</tr>
<tr>
<td>McCreanor, Victoria</td>
<td>PhD, QUT</td>
<td></td>
<td>Identifying high value care for stable coronary artery disease in Australia. Prof Nick Graves</td>
<td>N Graves, A Barnett, William Parsonage</td>
</tr>
<tr>
<td>Foran, Laura</td>
<td>MPhil, QUT</td>
<td></td>
<td>Clinical presentation characteristics of Aboriginal and Torres Strait Islander patients presenting to an Emergency Department with suspected Acute Coronary Syndrome</td>
<td>R Mahoney, William Parsonage, M Gatton, L Cullen</td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Parsonage</td>
<td>Professor and Clinical Director</td>
<td>Australian Centre for Health Service Innovation</td>
<td>QUT (2016-)</td>
</tr>
<tr>
<td>Adam Scott</td>
<td>Adjunct Professor</td>
<td>Faculty of Health</td>
<td>QUT (2009–2021)</td>
</tr>
<tr>
<td>John Atherton</td>
<td>Professor of Cardiology and Heart Failure Management</td>
<td>Faculty of Science, Health, Education and Engineering</td>
<td>University of Sunshine Coast (2017-2020)</td>
</tr>
<tr>
<td>John Atherton</td>
<td>Adjunct Professor</td>
<td>Faculty of Health</td>
<td>QUT (2018-2020)</td>
</tr>
<tr>
<td>John Atherton</td>
<td>Honorary Fellow</td>
<td>Department of Medicine, Royal Melbourne Hospital, Faculty of Medicine, Dentistry and Health Sciences</td>
<td>The University of Melbourne (2017-2021)</td>
</tr>
<tr>
<td>Arun Dahiya</td>
<td>Adjunct Associate Professor</td>
<td>Faculty of Health</td>
<td>Griffith University (2015-current)</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Scott</td>
<td>Adam Scott, Alice McDonald, Tiffany Roberts, John Atherton, Paul Scuffham</td>
<td>Tele-Cardiac Investigations to support rural/regional hospitals</td>
</tr>
<tr>
<td>Kristyan Guppy-Coles, John Atherton, Sandhir Prasad</td>
<td>Arun Dahiya, Arnold Ng, Kym Smith, Ada Lo, Sam Hillier</td>
<td>Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening</td>
</tr>
<tr>
<td>Ada Lo, John Atherton, Kristyan Guppy-Coles</td>
<td>Arnold Ng, William Wang, Sandhir Prasad</td>
<td>Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression</td>
</tr>
<tr>
<td>Sandhir Prasad, John Atherton, John Younger, Kristyan Guppy-Coles</td>
<td>Liza Thomas, Tony Stanton, James Anderson, Ada Lo, Joanne Sippel, Christopher Kwan, Kym Smith</td>
<td>Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandhir Prasad, John Atherton, Kristyan Guppy-Coles, Po-Ling Inglis, Joanne Sippel</td>
<td>Kym Smith, Ada Lo, Arun Dahiya</td>
<td>Evaluation of oncology staff performing 3D-echocardiographic left ventricular function assessment for monitoring chemotherapy-induced cardiotoxicity</td>
</tr>
<tr>
<td>Kristyan Guppy-Coles, Sandhir Prasad, John Atherton, Ada Lo</td>
<td>Kym Smith, Patrick Beard, James Armstrong, Terena Truloff</td>
<td>Feasibility and accuracy of assessing left ventricular systolic function by measuring mitral annular excursion using a hand-held echocardiography device with an automated aorto-ventricular-plane tracking algorithm</td>
</tr>
<tr>
<td>Sanjoy Paul, Olga Montvilda, John Atherton</td>
<td>Kerenafaili Klein, Julius Agebe</td>
<td>Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes</td>
</tr>
<tr>
<td>Daniel Lancini, Paul Martin, Sandhir Prasad</td>
<td>Rob Boots</td>
<td>New onset atrial fibrillation in the critically ill</td>
</tr>
<tr>
<td>Daniel Lancini, Paul Martin, Sandhir Prasad</td>
<td>Louise Cullen, Jaimi Greenslade</td>
<td>Atrial fibrillation in the emergency chest pain presentation</td>
</tr>
<tr>
<td>Arun Dahiya, Rick Jackson (Logan Hospital)</td>
<td>Arun Dahiya</td>
<td>Advanced Cardiovascular Imaging in Patients with Myotonic Dystrophy</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alison Mudge, Charles Denaro, Adam Scott, Julie Adsett, Robert Mulligans, G Javorsky, John Atherton, Paul Scuffham, Thomas Marwick, Peter O’Rourke (Department of Internal Medicine and Aged care)</td>
<td>Adam Scott, John Atherton</td>
<td>A supervised exercise programme following hospitalisation for heart failure: does it add to disease management?</td>
</tr>
<tr>
<td>Jo Wu, John Atherton, Anne Chang, Mary Courtney, Esben Strodl, Steven McPhail (QUT)</td>
<td>John Atherton</td>
<td>Improving delivery by Ehealth-Assurance for Life (IDEAL)</td>
</tr>
<tr>
<td>Chaminind Punyadeera, John Atherton, Benjamin Schulz, Goce Dimeski, Karam Kostner (QUT)</td>
<td>John Atherton</td>
<td>Novel diagnostics for heart failure</td>
</tr>
<tr>
<td>Robyn Clark, Alexandra McCarthy, John Atherton, Bogda Koczwarz, Narelle Berry, Tania Marin, Kerri Gillespie, Jonathon Foote, Sina Vatandoust (Flinders University)</td>
<td>John Atherton</td>
<td>Development of a cardiotoxicity cardiovascular risk assessment tool</td>
</tr>
<tr>
<td>Sanjoy Paul, Olga Montvilda, John Atherton, Kerenafaili Klein, Julius Agebe (QIMR)</td>
<td>John Atherton</td>
<td>Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes</td>
</tr>
<tr>
<td>Joseph Selvanayagam, Sanjay Prasad, Andrew McGavigan, Graham Hills, Werner Jung, Laurent Billot, Suchi Grover, John Atherton (SAHMRI)</td>
<td>John Atherton, John Younger, Paul Martin</td>
<td>Cardiovascular Magnetic Resonance GUIDEd management of mild-moderate left ventricular systolic Heart Failure (CMR GUIDE HF)</td>
</tr>
<tr>
<td>Elizabeth Sullivan, Rachael Cordina Dominica Zentner, Michael Peek Rachael Cordina, Lisa Simmons Lawrence Lam, David Celermajer, Wendy Pollock, Karin Lust, Jon Hyett, William Parsonage, Zhumoyang Li</td>
<td>William Parsonage</td>
<td>Australasian Maternity Outcomes Surveillance System (AMOSS) longitudinal study of first-time NSW/ACT mothers with heart disease and their babies</td>
</tr>
<tr>
<td>Tom Marwick, Liza Thomas, Andrew Taylor, Andrew Spencer, Andre La Gerche, Con Tam, Sherene Loi, Peter Mollee, John Atherton, Paul Hamett (Baker IDI)</td>
<td>John Atherton, Sandhir Prasad, Joanne Sippel, Arun Dahiya, Louise McCormack, John Younger</td>
<td>Benefit of 2D-strain surveillance in improving cardiovascular outcomes in cancer patients undergoing cardiotoxic chemotherapy</td>
</tr>
<tr>
<td>Sanjeeva Kularatna, Nicholas Graves, William Parsonage (AusHSI/QUT)</td>
<td>William Parsonage</td>
<td>Feasibility of using Smartphone app to collect patient reported outcome measurement on patients with cardiovascular disease</td>
</tr>
<tr>
<td>Sanjeeva Kularatna, Paul Scuffham, William Parsonage, Joshua Byrnes, Gang Chen, John Atherton (AusHSI, QUT, Griffith)</td>
<td>William Parsonage, John Atherton</td>
<td>Development of cardiovascular disease specific multi attribute utility instrument to assist utility measurement in cardiovascular conditions; a case for economic evaluations</td>
</tr>
</tbody>
</table>
2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandhir Prasad</td>
<td>Australasian Sonologist of the Year 2018</td>
<td>Australasian Society of Ultrasound in Medicine</td>
</tr>
<tr>
<td>Stephen Tomlinson (Supervisor Sandhir Prasad)</td>
<td>Queensland Case of the Year</td>
<td>Cardiac Society of Australia and New Zealand Queensland Regional Branch</td>
</tr>
<tr>
<td>Tele-Cardiac Investigations, (Adam Scott, Alice McDonald, Tiffany Roberts, Justin O’Connor)</td>
<td>Winner – Metro North Staff Excellence Award</td>
<td>Metro North Staff Excellence Awards</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Marwick, L Thomas, A Taylor, A Spencer, A La Gerche, C Tam, S Loi, P Mollee, J Atherton, P Hamett</td>
<td>Cardiology and Oncology</td>
<td>Benefit of 2D-strain surveillance in improving cardiovascular outcomes in cancer patients undergoing cardiotoxic chemotherapy</td>
<td>National Health and Medical Research Council (Project Grant APP 1119955)</td>
<td>$478,395.80</td>
<td>$2,391,979.00 (2017-2021)</td>
</tr>
<tr>
<td>Adam Scott, John Atherton</td>
<td>Tele-Cardiac Investigations, Cardiology RBWH</td>
<td>Statewide Tele-Cardiac Investigations</td>
<td>Health Improvement Unit, Metro North HHS, Qld Health</td>
<td>$543,000.00</td>
<td>$1,629,000.00 (2017-2019)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal articles:

5. Prasad SB, Holland DJ, Atherton J. Diastolic stress echocardiography: from basic principles to clinical applications. Heart 2018; 104:1739-48


Journal Articles: (cont):

Book Publications:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker (J Atherton):
4. ThinkGP Webinar, Reed Medical Education, November 2018. Topic: Australian 2018 Heart Failure Guidelines. What’s new and how to incorporate into clinical practice
7. Iron Academy (Vifor), Melbourne, October 2018. Topic: evidence-based guidelines for the use of IV iron in heart failure
9. South Australian Health and Medical Research Institute (SAHMI) Clinical Trial Forum, Munich, Germany, September 2018. Topic: heart failure at the ESC 2018
10. European Society of Cardiology (ESC) Congress 2018, Munich, Germany, August 2018. Late breaking science in heart failure-discussant
11. 66th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Brisbane Convention and Exhibition Centre, Brisbane, August 2018. Topic: Heart Failure Reporting of Outcomes (HERO) Registry
12. 66th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Brisbane Convention and Exhibition Centre, Brisbane, August 2018. Topic: National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand (NHFA/CSANZ): Guidelines for the prevention, detection and management of heart failure in Australia 2018
13. 66th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Brisbane Convention and Exhibition Centre, Brisbane, August 2018. Topic: Genetic testing for the general cardiologist
14. 66th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand Heart Failure Council, Brisbane Convention and Exhibition Centre, Brisbane, August 2018. Topic: National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand (NHFA/CSANZ): Guidelines for the prevention, detection and management of heart failure in Australia 2018 – Introduction and Devices; Surgery and percutaneous procedures
15. Australian Cardiovascular Health and Rehabilitation Association (ACRA) Annual Scientific Meeting, Hotel Grand Chancellor, Brisbane, August 2018. Topic: management of renal impairment in the heart failure patient. The cardiologist perspective
16. Australian Cardiovascular Health and Rehabilitation Association (ACRA) Annual Scientific Meeting, Hotel Grand Chancellor, Brisbane, August 2018. Topic: emerging treatments in heart failure
19. Expert Scientific Forum on MRA’s in Heart Failure- following CSANZ New Zealand Annual Scientific Meeting opening ceremony, Christchurch, New Zealand, June 2018. Topic: Mineralocorticoid receptor antagonists and HFpEF. (Declined offer for flights and accommodation-talk given via video conferencing)
Invited Speaker (J Atherton) (cont):
24. 4th International 4 Corners of Cardiology Meeting, Melbourne, February 2018. Topic: neurohormonal antagonists: the past, present and future
25. 4th International 4 Corners of Cardiology Meeting Novartis Symposium, Melbourne, February 2018. Topic: practicalities of treating heart failure patients and considerations when prescribing sacubitril/valsartan
26. 2nd Australia New Zealand Alliance of Cardiovascular Trials (ANZACT): Co-chair of the Discussion Group on Proposed and Ongoing Trials in Primary Care/Prevention/Heart Failure, followed by report to the whole group to identify trials suitable for “support/endorsement/promotion” from ANZACT, Melbourne, February 2018.

Invited Speaker (C Hammett):
4. Cardiac Society of Australia and New Zealand 66th Annual Scientific Meeting, Brisbane 3 August 2018. Breakfast Symposium. Topic: Out with the Old and In with the New – Atrial Fibrillation and PCI – Challenges and Perspectives
5. University of Sydney NHMRC Clinical Trials Centre Masterclass on Diabetes and Vascular Disease, Sydney 17 June 2018. Topic: Triple Antithrombotic Therapy in Problem Patients
7. ADVANCE Symposium (Cardiology Advanced Trainee Symposium), Sydney 5-6 May 2018. Topic: Acute Coronary Syndromes – Secondary Prevention

Invited Speaker (S Prasad):
1. Cardiac Society of Australia and New Zealand ASM, Brisbane, August 2018. Topic: Stress Echocardiography in HFpEF
2. Australasian Society of ultrasound in Medicine Annual Scientific Meeting Auckland, NZ, August 2018. Topic: Beyond the Filling – Advances in the Assessment of Diastolic Function
3. Australasian Society of Ultrasound in Medicine Annual Scientific Meeting, Auckland, NZ, August 2018. Topic: Mechanical Complications of myocardial Infarction

Invited Speaker (A Dahlia):

Invited Speaker: (A Lo)
Invited Speaker: (Others)


2. Cardiac Imaging in Cardiomyopathies and Heart Failure, Royal Brisbane and Women's Hospital Edwin M Tooth Auditorium, November 2018 (Australasian Society for Ultrasound in Medicine (ASUM) Course: 6.75 myASUM CPD/CME points). Topic: Cardiac Sarcoid. (Charles Chao)


Other Communications and Outputs:

Journal Abstracts:


15. Razak AK, Hawkins AM, Khoo TK, Burrage MK, Atherton JJ, Challa VRP, Jackson RV, Dahiya A. Early detection of cardiac structural and functional abnormalities in adult myotonic dystrophy type 1 patients using advanced cardiac magnetic resonance imaging. Cardiac Magnetic Resonance (CMR) 2018, Barcelona, Spain, February 2018 (poster presentation)


Department of Clinical Immunology and Allergy

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrew Redmond, Yannick Emond, Amy Legg, Peter Groom, Roger Prentice</td>
<td></td>
<td>Recognition and Evaluation of Antibiotic Allergies to improve patient Care in Hospital (REAACH)</td>
</tr>
<tr>
<td>Dwaaraka Ranganathan, Yumi Oh, Katharine Foster, Daniel Schuster</td>
<td></td>
<td>Retrospective study of prevalence and type of infections in patients with renal ANCA associated vasculitis and their risk factors</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

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. Clinical Pharmacology continues to work collaboratively with other hospitals within Metro North Hospital and Health Service (Prince Charles Hospital) and Brisbane (Princess Alexandra Hospital). In addition, the department continues 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 continues with her PhD studies. A particular focus of medication safety relates to inpatient anticoagulant use. A RBWH foundation grant was utilised to attempt to elucidate a therapeutic range for enoxaparin in renal impairment, a Metro North SEED grant is being used to pilot a Support Service for anticoagulant use in two units at RBWH and a systematic review is being undertaken to establish the evidence base for other interventions to improve this practice. Further, we have started a large study, in collaboration, assessing the benefits of implementing an electronic prescribing system at RBWH and Caboolture Hospital. Research is also expanding into the safe and appropriate use of opioids within not only within RBWH, but Metro North and Queensland. Lastly, 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, including a successful NHMRC project grant in collaboration with, amongst others, QIMR Berghofer.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brooke Myers</td>
<td>PhD, UQ</td>
<td>(2014 – current)</td>
<td>Role of the Pharmacist on the Medical Post-Take Ward Round</td>
<td>Ian Coombes, Charles Mitchell, Peter Donovan, Jennifer Whitty</td>
</tr>
<tr>
<td>Karen Davies</td>
<td>PhD, UQ</td>
<td>(2016 – current)</td>
<td>Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review and inter-rater and intra-rater reliability testing</td>
<td>Karen Whitfield, Ian Coombes, Samantha Keogh</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
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</thead>
<tbody>
<tr>
<td>Karen Davies</td>
<td>Karen Whitfield, Ian Coombes, Samantha Keogh</td>
<td>Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review and inter-rater and intra-rater reliability testing</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Michael Barras, (Princess Alexandra Hospital), Ian Coombes, Jason Roberts, Ms Carla Scuder (Pharmacy), Charles Denaro (Internal Medicine), John Atherton, Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)</td>
<td>Development of a therapeutic range for enoxaparin in patients with renal impairment</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Ian Coombes, Glen Kennedy (Cancer Care Services), Alison Mudge (Internal Medicine), Champika Pattullo (Clinical Pharmacology), Bonnie Tai (Prince Charles Hospital)</td>
<td>Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Alison Mudge, Jenny Martin (Uni Newcastle), Michael Barras (Princess Alexandra Hospital), James Rowland, Champika Pattullo</td>
<td>Interventions to improve safety and quality in the management of anticoagulants for therapeutic indications in hospital inpatients: systematic review</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Nicola Harper, Dr Danielle Stowasser, Natasha Truloff (Metro North 17), Ian Coombes, (Pharmacy), Charles Denaro (Internal Medicine), Timothy Dunn (Caboolture Hospital Pharmacy), Anita Pelecanos (QIMR Berghofer)</td>
<td>Evaluation of the Implementation of Electronic Prescribing using Interrupted Time-Series Analysis at Two Hospitals in Queensland</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Champika Pattullo, Anthony Bell, David Arroyo</td>
<td>Trends in Opioid Prescribing in Australia: a Systematic Review</td>
</tr>
</tbody>
</table>
### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children’s Research Institute), Dr Katrina Spilsbury (Curtin University of Technology)</td>
<td>Peter Donovan</td>
<td>IMPROVE – Investigating Medication Re-Purposing to Reduce risk of Ovarian cancer and Extend survival</td>
</tr>
<tr>
<td>Louise Cullen (Emergency and Trauma Centre)</td>
<td>Nathan Brown, Peter Donovan, Ian Coombes, Jaimi Greenslade, David Hughes, Elizabeth Doran</td>
<td>Prevalence and characteristics of medication-related presentations to the emergency department. Emergency and Trauma Centre, Royal Brisbane and Women’s Hospital</td>
</tr>
<tr>
<td>Phillip Robinson (Rheumatology)</td>
<td>Peter Donovan, Nicola Dalbeth (University of Auckland, Auckland Hospital)</td>
<td>A Health Economic Analysis Colchicine Therapy for Gout Prophylaxis</td>
</tr>
<tr>
<td>Ian Coombes (Pharmacy)</td>
<td>Peter Donovan, Charles Mitchel (UQ), Brooke Merry, Christy Noble, (Gold Coast University Hospital, Griffith University)</td>
<td>Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback</td>
</tr>
<tr>
<td>Don McLeod (Endocrinology)</td>
<td>Peter Donovan, Roger Allison (Cancer Care), Susan Thomas (Cancer Care), Lee Tripcony (Cancer Care)</td>
<td>Validating a response to therapy risk stratification system for Medullary Thyroid Cancer</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karen Davies</td>
<td>Clinical Pharmacology</td>
<td>Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review and inter-rater and intra-rater reliability testing</td>
<td>RBWH Foundation Scholarship</td>
<td>$36,863.96</td>
<td>$36,863.96 (2018)</td>
</tr>
<tr>
<td>Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children’s Research Institute), Dr Katrina Spilsbury (Curtin University of Technology), Dr Peter Donovan</td>
<td>Clinical Pharmacology, Internal Medicine and Aged Care</td>
<td>IMPROVE – Investigating Medication Re-Purposing to Reduce risk of Ovarian cancer and Extend survival</td>
<td>National Health and Medical Research Council</td>
<td>$95,104</td>
<td>$438,313.20 (2017-2021)</td>
</tr>
<tr>
<td>Louise Cullen, Nathan Brown, Peter Donovan, Ian Coombes, Jaimi Greenslade, David Hughes, Elizabeth Doran</td>
<td>Emergency and Trauma Centre, Pharmacy, Clinical Pharmacology, Internal Medicine and Aged Care</td>
<td>Prevalence and characteristics of medication-related presentations to the emergency department. Emergency and Trauma Centre, Royal Brisbane and Women’s Hospital</td>
<td>Emergency Medicine Foundation</td>
<td>$31,410</td>
<td>$31,410 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:

Poster Presentations:
2. Ian Coombes, Peter Donovan, Brooke Myers, Christy Noble, Charles Mitchell. Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback. Australasian Society of Experimental and Clinical Pharmacologist and Toxicologist Annual Scientific Meeting, Nov 2018
Department of Endocrinology and Diabetes

The Department of Endocrinology and Diabetes conducts a number of research activities within the department and collaborates with a number of other research units within the hospital and in other institutions.

The Department has an active clinical trials centre undertaking a number of externally funded clinical trials in focusing on diabetes and in particular on the prevention of cardiovascular disease in diabetes with Assoc Prof Michael d’Emden being the principle investigator. The unit has participated in several of the landmark trials which have changed the practice of medicine – TNT, LIPID, FIELD, EMPA-REG, DECLARE to mention a few.

Professor Emma Duncan has a major role within the Department to promote and undertake research. There are now 3 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
- Phaeochromocytoma and bone disease
- Genetics of Phaeochromocytoma
- 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 and has a major on-going study looking at auto-immune thyroid disease in the United States armed forces, a model of stress-induced auto-immunity.

Associate Professor Kerry Richard who supervises the endocrine division of the conjoined internal medical laboratory continues to be a world leader in the study of thyroid hormone transport in the placenta and was invited to be a “meet the professor” at the most recent American Thyroid Association meeting.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies/University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aideen McInerney-Leo</td>
<td>PhD; UQ (2014-2018)</td>
<td>Exome sequencing for gene discovery and genetic testing in Mendelian disorder</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Stephanie Johnson</td>
<td>PhD; UQ; (2014-2018)</td>
<td>Disorders of insulin secretion</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Xiao Bao</td>
<td>PhD; Uni of Zhengzhou; (2014-2018)</td>
<td>The genetics of complex diseases including osteoporosis and cervical cancer</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Naomi Achoong</td>
<td>PhD studies; UQ; (2014-2018)</td>
<td>Insulin secretion in pregnancy and the postpartum period</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Sheila Cook</td>
<td>PhD studies; UQ; (2018-)</td>
<td>The effect of a low carbohydrate diet on clinical outcomes for patients with Type 1 Diabetes Mellitus</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Andrea Fernandes</td>
<td>PhD; UQ; (2018-)</td>
<td>The Endocrinology of Chronic Renal Disease</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Jessica Harris</td>
<td>MSc; UQ; (2017-2018)</td>
<td>Genetics of Endocrine Tumours</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Fiona Britten</td>
<td>MSc; UQ; (2014-)</td>
<td>Breastfeeding in mothers with type 2 diabetes mellitus</td>
<td>Emma Duncan</td>
</tr>
<tr>
<td>Kelly Carruthers</td>
<td>MSc; UQ; (2016-)</td>
<td>The Genetics of Familial Non-Medullary Thyroid Cancer</td>
<td>Emma Duncan</td>
</tr>
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</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helen Legg</td>
<td>Clinical Trials Coordinator</td>
<td>Diabetes and Cardiovascular Disease</td>
<td></td>
</tr>
<tr>
<td>Liz Lahz</td>
<td>Clinical Trials Coordinator</td>
<td>Diabetes and Cardiovascular Disease</td>
<td></td>
</tr>
<tr>
<td>Erika Tapp</td>
<td>Clinical Trials Coordinator</td>
<td>Diabetes and Cardiovascular Disease</td>
<td></td>
</tr>
</tbody>
</table>
2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emma Duncan</td>
<td>Using large scale genome-wide association studies to identify pharmacological targets for osteoporosis intervention</td>
<td></td>
</tr>
<tr>
<td>Emma Duncan</td>
<td>The Role of ‘Orphan’ Solute Carrier Transporter Slc37a2 in Bone Homeostasis and Disease</td>
<td></td>
</tr>
<tr>
<td>Don McLeod</td>
<td>Does stress cause Graves’ disease</td>
<td></td>
</tr>
<tr>
<td>Kerry Richard</td>
<td>Kelly Landers, Michael d’Emden The influence of maternal health and lifestyle on placental thyroid hormone transport and metabolism</td>
<td></td>
</tr>
<tr>
<td>Kerry Richard</td>
<td>Kelly Landers, Michael d’Emden The role of the high density lipoprotein receptor scavenger receptor class B member 1 (SR-B1) in placental transfer of thyroid hormone</td>
<td></td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

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<tr>
<th>Investigators (RBWH staff in bold)</th>
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<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emma Duncan</td>
<td>Endocrinology</td>
<td>Using large scale genome-wide association studies to identify pharmacological targets for osteoporosis intervention</td>
<td>NHMRC</td>
<td>$270,000</td>
<td>$270,000</td>
</tr>
<tr>
<td>Emma Duncan</td>
<td>Endocrinology</td>
<td>The Role of ‘Orphan’ Solute Carrier Transporter Slc37a2 in Bone Homeostasis and Disease</td>
<td>NHMRC</td>
<td>$220,000</td>
<td>$675668.40</td>
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<tr>
<td>Emma Duncan</td>
<td>Endocrinology</td>
<td>Cancer Care Program</td>
<td>QUT</td>
<td>$10,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>Emma Duncan</td>
<td>Endocrinology</td>
<td>Non-invasive assessment of osteoporosis and bone health in individuals with chronic kidney disease</td>
<td>Amgen</td>
<td>$40,000</td>
<td>$40,000</td>
</tr>
<tr>
<td>Don McLeod</td>
<td>Endocrinology</td>
<td>Does stress cause Graves’ disease</td>
<td>NHMRC</td>
<td>$190,000</td>
<td>$565,000</td>
</tr>
<tr>
<td>Kerry Richard</td>
<td>Endocrinology</td>
<td>The role of the high density lipoprotein receptor scavenger receptor class B member 1 (SR-B1) in placental transfer of thyroid hormone</td>
<td>Science and Education Research Committee</td>
<td>$50,000</td>
<td>$50,000</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


Journal Articles: (cont):
21. Willems, SM., Wright DJ, Day FR et al. (including Duncan EL as AOGC lead for GFESO) (2017) "Large-scale GWAS identifies multiple loci for hand grip strength providing insights into muscular fitness." *Nature Communications*, 8 16015
25. Landers KA, Li H, Mortimer RH, McLeod DSA, d’Emden MC, Richard K. Transthyretin uptake in placental cells is regulated by the high-density lipoprotein receptor, Scavenger Receptor class B member 1. *Molecular and Cellular Endocrinology*. 2018; 474: 89–96
29. Lim WH and Duncan EL (2017) "Is there a role or target value for nutritional vitamin D in chronic kidney disease?" *Nephrology (Carlton)* 22 Suppl 2: 57-64
Journal Articles: (cont):
30. Clarke M, Dover T, Duncan EL (2017) "New and emerging therapies for osteoporosis." Endocrinology Today

Book Chapters / Letters:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. International Osteoporosis Society Regional Conference – Sydney, December 2018
4. 5th International Symposium on Phaeochromocytoma-Paraganglioma, Sydney, 2017. Emma Duncan

Oral Presentations:
1. Annual Scientific Meeting of the Endocrine Society of Australia, Adelaide, 2018. Emma Duncan
2. Annual Scientific Meeting of the Australasian Menopause Society, Brisbane, August 2018. Emma Duncan
3. Annual Scientific Meeting of the Australasian College of Dermatology, Gold Coast, May 2018. Emma Duncan

Other Communications and Outputs:

Professor Emma Duncan
Conference Leadership

International:
• American Society of Bone and Mineral Research:
  — Chair of the Genomics, Transcriptomics, Proteomics and Metabolomics of Musculoskeletal Disease category 2018.
• Joint Australian and New Zealand Bone and Mineral Society International Federation of Musculoskeletal Research Societies, in conjunction with the Japanese Bone and Mineral Society Brisbane 2017:
  — Lead chair of Executive Organising Committee:
    • Budget >$1 million.
• International Symposium on Phaeochromocytoma and Paraganglioma 2017:
  — Local Organising Committee member.

National/Australasian:
• Member, Programme Organising Committee, Endocrine Society of Australia Annual Scientific meeting, 2018
• Member, Programme Committee for ANZBMS Annual Postgraduate Meeting, 2017.

Local:
• Committee member (representing Internal Medicine), Royal Brisbane and Women’s Hospital Annual Scientific Meeting, 2018.

Conference Session Chairperson (International and National):
• American Society for Bone and Mineral Research Annual Scientific Meeting 2018, 2017:
  — Australian Rheumatology Association Annual Scientific Meeting – joint session with Australian and New Zealand Bone and Mineral Society and Endocrine Society of Australia, Melbourne 2018
  — Australian and New Zealand Bone and Mineral Society Annual Scientific Meeting, 2017, 2018
  — Judge, Young Investigators Presentations, 2018.

On-Line Opinion Pieces
1. Emma L Duncan "Why do we have bones?". Published online, 29 January 2018
Department of Gastroenterology and Hepatology

The Gut Health Research group (QIMR Berghofer MRI), working in collaboration with the Department of Gastroenterology at RBWH, and local, national and international colleagues, has focussed on the development of predictors of gut health over the past 12 months. This includes a risk assessment tool for significant colorectal disease, to assist in colonoscopy triage, a risk predictor for high-risk Crohn’s disease, and identification of a genetic polymorphism that predicts a healthy gut microbiome. Two of these studies have been published and presented at international meetings. Our team also made it to the finals of the Metro North Research Excellence Awards.

Within the research group focussed on molecular genetics of colorectal cancer, major highlights were publications in the 2 leading journals of the specialty: Gastroenterology and Gut. The Gut publication was in collaboration with Dan Worthley who completed his PhD with our group before taking up a NHMRC fellowship and it used cutting edge organoid technology to demonstrate the genetic changes which cause a serrated polyp to progress to cancer. The Gastroenterology publication showed for the first time that the cancer risk of serrated polyps is heavily dependent on the age of the patient in which the polyp occurs. Polyps of identical size and histology have a much higher risk of progressing if they occur in the proximal colon of older patients. This exciting finding not only opens the door to better understanding of how older tissue is primed for malignancy but can be translated into more efficient surveillance and less colonoscopy.

In 2018, Dr Richard Skoien has presented his basic science research in microRNAs as potential biomarkers of hepatocellular carcinoma (HCC) at international conferences, and is currently investigating their roles in decompensated cirrhosis. He has also further progressed his clinical research into innovative models of care in chronic liver disease, including the novel HepatoCare pilot project in palliative and supportive care in advanced cirrhosis, and is leading a clinical audit of spontaneous bacterial peritonitis and other complications in cirrhotic patients of the Liver Unit admitted to the RBWH.

The endoscopy research group has established a research nursing position that has launched a number of clinical studies that we expect to present this year. These include endoscopic outcomes research and pushing the endoscopy boundaries in bariatric patients.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lauren White</td>
<td>MPhil UQ/QIMRB (2018-2019)</td>
<td>Introductory</td>
<td>Introduction of Intestinal Ultrasound to a tertiary Gastrointestinal department</td>
<td>Graham Radford-Smith, Andrew Lee</td>
</tr>
<tr>
<td>Abigail Marsh</td>
<td>PhD UQ</td>
<td></td>
<td>The effects of an anti-inflammatory diet on disease activity, symptom severity and microbiota profile in patients with inflammatory bowel disease</td>
<td>Graham Radford-Smith, Veronique Chachay, Merrilynn Banks</td>
</tr>
<tr>
<td>Jennifer Borowsky</td>
<td>PhD, UQ (PT 2016-2021)</td>
<td></td>
<td>Morphological and molecular characterisation of colorectal adenomas and carcinomas</td>
<td>Vicki Whitehall, Barbara Leggett, Neal Walker, Ian Brown, Mark Bettington</td>
</tr>
<tr>
<td>Alexandra Kane</td>
<td>PhD, UQ (2017-2019)</td>
<td></td>
<td>Chemoprevention of serrated colorectal neoplasia</td>
<td>Vicki Whitehall, Barbara Leggett</td>
</tr>
<tr>
<td>Lochlan Fennell</td>
<td>PhD, UQ (2018-2020)</td>
<td></td>
<td>Investigation of the colorectal cancer epigenome</td>
<td>Vicki Whitehall, Barbara Leggett</td>
</tr>
<tr>
<td>Jason Huang</td>
<td>MPhil, UQ (PT 2015-2018)</td>
<td></td>
<td>Endoscopic ultrasound guided techniques for evaluation of liver disease: direct portal venous pressure gradient measurement and liver biopsy</td>
<td>Benedict Devereaux</td>
</tr>
<tr>
<td>Anna Weis</td>
<td>PhD, UQ (2015-2018; submitted)</td>
<td></td>
<td>Investigating the potential of circulating microRNAs as non-invasive biomarkers in cirrhosis and hepatocellular carcinoma</td>
<td>Richard Skoien, Grant Ramm</td>
</tr>
</tbody>
</table>
2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Devereaux</td>
<td>Associate Professor</td>
<td>Endoscopy</td>
<td>University of Queensland (2013-2018)</td>
</tr>
<tr>
<td>Chun How Gan</td>
<td>Endoscopy Fellow</td>
<td>Endoscopy</td>
<td>QHealth</td>
</tr>
<tr>
<td>Christopher (Yin Hiew) Kia</td>
<td>Endoscopy Fellow</td>
<td>Endoscopy</td>
<td>QHealth</td>
</tr>
<tr>
<td>Kimberley Ryan</td>
<td>Research Co-ordinator</td>
<td>Interventional Gastroenterology</td>
<td>QHealth</td>
</tr>
<tr>
<td>Allison Brown</td>
<td>Research Co-ordinator</td>
<td>IBD Clinical Trials, colonoscopy research</td>
<td>QHealth (funded by research)</td>
</tr>
<tr>
<td>Ming Han Lim</td>
<td>IBD Clinical Research Fellow</td>
<td>Gut Health Research Group (QIMRB)</td>
<td>QIMRB (2017-2018)</td>
</tr>
<tr>
<td>Lauren White</td>
<td>RBWH Scholarship</td>
<td>School of Medicine</td>
<td>UQ/QIMRB (2018-2019)</td>
</tr>
<tr>
<td>Abi Marsh</td>
<td>RBWH Scholarship</td>
<td>School of Human Movement and Nutritional Sciences</td>
<td>UQ/QIMRB (2018-2020)</td>
</tr>
<tr>
<td>Anthony Croft</td>
<td>RBWH Scholarship</td>
<td>School of Medicine</td>
<td>UQ/QIMRB (2017-2019)</td>
</tr>
<tr>
<td>Yoon-Kyo An</td>
<td>Investigator Initiated Study (Janssen)</td>
<td>School of Medicine, School of Medicine</td>
<td>UQ/TRI/QIMRB (2018-2020)</td>
</tr>
<tr>
<td>Futoshi Kawamata</td>
<td>Visiting Fellow</td>
<td>Colorectal cancer metastases</td>
<td>Queensland Institute of Medical Research Berghofer (2017-2018)</td>
</tr>
<tr>
<td>Vicki Whitehall</td>
<td>Gastroenterological Society of Australia Senior Research Fellowship</td>
<td>Molecular Genetics of Colorectal Cancer</td>
<td>Pathology Queensland (2016-2018)</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Appleyard</td>
<td>Florian Grimpen, Jason Hwang, Kimberley Ryan</td>
<td>Does Bowel Preparation Improve Diagnostic Yield in Capsule Endoscopy?</td>
</tr>
<tr>
<td>Christopher (Yin Hiew) Kia</td>
<td>Ahmed Abdul Rahman, Jason Hwang</td>
<td>A retrospective audit of endoscopic ultrasound tissue sampling in a large Australian tertiary centre: Cytology vs Histology</td>
</tr>
<tr>
<td>Christopher (Yin Hiew) Kia</td>
<td>Benedict Devereaux, Florian Grimpen, Mark Appleyard</td>
<td>A prospective multicentre study of the current ERCP experience in Australia: how are we doing?</td>
</tr>
<tr>
<td>Abdulnasser Lafta</td>
<td>Mark Appleyard, Florian Grimpen, Jessica Kinneally, Kimberley Ryan, Matthew Remedios</td>
<td>Two food group elimination diet versus swallowed fluticasone for the management of adult eosinophilic oesophagitis, as a single-centre randomised prospective study</td>
</tr>
<tr>
<td>Abdulnasser Lafta</td>
<td>Patrick Walsh</td>
<td>Endoscopic resection and plication for GERD, a prospective study</td>
</tr>
<tr>
<td>Florian Grimpen</td>
<td>Joshua Satchwell, Kimberley Ryan, Mark Appleyard</td>
<td>Barrett's Oesophagus and its progression to oesophageal adenocarcinoma – impact of enhanced imaging techniques and endoscopic therapies on outcomes</td>
</tr>
<tr>
<td>Kimberley Ryan</td>
<td>Mark Appleyard, Florian Grimpen, Anthony FT Brown</td>
<td>Clinical audit of patients presenting to the ED with upper Gastrointestinal bleeding</td>
</tr>
<tr>
<td>Patrick Walsh</td>
<td>Chun How Gan, Mark Appleyard, Jason Huang, George Hopkins</td>
<td>Argon Plasma Coagulation and endoscopic suturing in the management of weight regain after gastric bypass surgery</td>
</tr>
<tr>
<td>Jason Huang</td>
<td>Patrick Walsh, Chun How Gan, Daniel Tani, Mark Appleyard, George Hopkins</td>
<td>The Endoscopic Sleeve Gastroplasty – a prospective outcome study</td>
</tr>
<tr>
<td>Antonio Lee</td>
<td>Patrick Walsh</td>
<td>Endoscopic removal of eroded gastric band is safe and effective</td>
</tr>
<tr>
<td>Richard Skoien</td>
<td>Victoria Grey, Kimberley Ryan, Mark Appleyard, Anthony FT Brown</td>
<td>Examination of health outcomes associated with paracentesis in patients admitted with decompensated cirrhosis</td>
</tr>
<tr>
<td>Graham Radford-Smith</td>
<td>Allison Brown (clinical research nurse); Anton Lord (QIMRB); Lisa Simms (QIMRB); Mark Appleyard (SMO); Louisa Gordon (QIMRB); Tom Elliott (QIMRB); Patricia Valery (QIMRB)</td>
<td>Colonoscopy Biomarker Study – optimization of colonoscopy across Queensland</td>
</tr>
<tr>
<td>Lauren White</td>
<td>Graham Radford-Smith; Andrew Lee; Anton Lord (QIMRB)</td>
<td>Introduction of Intestinal Ultrasound to a tertiary Gastrointestinal Department</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Abigail Marsh</td>
<td>Graham Radford-Smith; Merrilyn Banks; Veronique Chachay (UQ); Anton Lord (QIMRB)</td>
<td>The effects of an anti-inflammatory diet on disease activity, symptom severity and microbiota profile in patients with inflammatory bowel disease</td>
</tr>
<tr>
<td>Barbara Leggett</td>
<td>Vicki Whitehall, Catherine Bond, Diane McKeone</td>
<td>Molecular Genetics of Colorectal Cancer</td>
</tr>
<tr>
<td>Barbara Leggett and Richard Skoien</td>
<td>Robyn Medcraft, Rita Lawrie, Joanne Mina</td>
<td>Liver Clinical Trials</td>
</tr>
<tr>
<td>Richard Skoien, Olivia Cullen, Mary Fenech, Joanne Mina</td>
<td>Alison Kearney, Amy Legg</td>
<td>Quality of Life in Cirrhosis Project (The HepatoCare Pilot)</td>
</tr>
<tr>
<td>Richard Skoien, Olivia Cullen, Karen Beckman, Deborah McIntyre</td>
<td>Grant Ramm, Anna Weis</td>
<td>The roles of microRNAs as biomarkers in hepatocellular carcinoma, cirrhosis and decompensated liver disease</td>
</tr>
<tr>
<td>Richard Skoien, Victoria Grey, Kimberley Ryan, Mark Appleyard</td>
<td>Anthony Brown</td>
<td>Outcomes of patients at risk of spontaneous bacterial peritonitis admitted to the RBWH with decompensated cirrhosis</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macrae, F. (Melbourne)</td>
<td>Florian Grimpen, Mark Appleyard</td>
<td>AUSFAP study – the effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients</td>
</tr>
<tr>
<td>Marie Ooi, Nam Q Nguyen (Royal Adelaide Hospital)</td>
<td>Mark Appleyard, Florian Grimpen, Abdulnasser Lafta, Kimberley Ryan</td>
<td>A randomised controlled study on the effectiveness of a transparent cap-assisted device in the endoscopic management of high-grade food bolus obstruction in the oesophagus</td>
</tr>
<tr>
<td>Mangira, D., Moss, A., Nalankilli, K. &amp; Cao, J. (Western Hospital, Footscray)</td>
<td>Florian Grimpen, Mark Appleyard, Matthew Remedios, Kimberley Ryan</td>
<td>Cold snare Polypectomy for non-pedunculated colonic polyps sized 10-19mm: a prospective observational study (CSP study)</td>
</tr>
<tr>
<td>Nguyen, N., Phan, A., Schoeman, M. (Royal Adelaide Hospital)</td>
<td>Mark Appleyard, Florian Grimpen, Kimberley Ryan, Anthony FT Brown, Carly Silvester, Archanah Balanchandran</td>
<td>The utility of the Glasgow-Blatchford score in predicting clinical outcome and stratifying the needs for therapeutic intervention in hospitalised patients with Upper Gastrointestinal Bleeding</td>
</tr>
<tr>
<td>Alan Cripps (Griffith University)</td>
<td>Benedict Devereaux</td>
<td>Mechanisms of mucosal immune regulation in obesity</td>
</tr>
<tr>
<td>Yoon-Kyo An (Mater/UQ), Jake Begun (Mater/UQ/TRI)</td>
<td>Graham Radford-Smith</td>
<td>AURORA (Australian Ustekinumab Real-World Observational Research) in Crohn’s Disease</td>
</tr>
<tr>
<td>Nik Ding (St Vincent’s, Melbourne), Edouard Louis (Hôpital St Antoine, Liege, Belgium), GETAID IBD Group (Europe)</td>
<td>Graham Radford-Smith, Allison Brown</td>
<td>A prospective randomized controlled trial comparing infliximab-antimetabolites combination therapy to anti-metabolites monotherapy and infliximab monotherapy in Crohn’s disease patients in sustained steroid-free remission on combination therapy</td>
</tr>
<tr>
<td>Peter De Cruz (Austin Hospital, Melbourne), Ronan Burder (Austin Hospital, Melbourne)</td>
<td>Graham Radford-Smith, Allison Brown</td>
<td>PREDICT UC: Optimizing Infliximab Induction Therapy for Acute Severe Ulcerative Colitis – a randomized controlled trial</td>
</tr>
<tr>
<td>Ken Croitura, Mount Sinai Hospital, Toronto, Canada</td>
<td>Graham Radford-Smith, Katherine Hanigan (QIMRB); Lisa Simms (QIMRB)</td>
<td>GEMS (Genes, Environment, Microbiome)</td>
</tr>
<tr>
<td>SY Ong, A Nicoll, L Powell, MB Delatycki</td>
<td>R Skoien</td>
<td>Investigating the importance of serum ferritin in the management of HFE Haemochromatosis</td>
</tr>
</tbody>
</table>
2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Simms (QIMRB)</td>
<td>Poster of Merit</td>
<td>Digestive Diseases Week, Washington DC, 2018</td>
</tr>
<tr>
<td>Graham Radford-Smith</td>
<td>Poster of Merit</td>
<td>Australian Gastroenterology Week, Brisbane, 2018</td>
</tr>
<tr>
<td>Anton Lord (QIMRB)</td>
<td>Poster of Merit</td>
<td>Australian Gastroenterology Week, Brisbane, 2018</td>
</tr>
<tr>
<td>Martha Zakrzewski (QIMRB)</td>
<td>Winner</td>
<td>GE Society Queensland Young Investigator Awards, Noosa, 2018</td>
</tr>
<tr>
<td>Anton Lord (QIMRB)</td>
<td>Finalist</td>
<td>GE Society Queensland Young Investigator Awards, Noosa, 2018</td>
</tr>
<tr>
<td>Colonoscopy Biomarker study team</td>
<td>Finalist</td>
<td>Metro North HHS Research Excellence Awards, 2018</td>
</tr>
<tr>
<td>Lochlan Fennell</td>
<td>Young Investigator Award</td>
<td>Gastroenterological Society of Queensland Annual Scientific Meeting 2018</td>
</tr>
<tr>
<td>Alexandra Kane</td>
<td>Short listed for Young Investigator Award</td>
<td>Australian Gastroenterology Week 2018</td>
</tr>
<tr>
<td>Jennifer Borowsky</td>
<td>Trainee Travel Award</td>
<td>American Society for Investigative Pathology 2018</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graham Radford-Smith, Lisa Simms, Anton Lord, Allison Brown</td>
<td>Gut Health Research Group (QIMRB), Gastroenterology Department</td>
<td>Colonoscopy Biomarker Study – optimization of colonoscopy across Queensland</td>
<td>Healthcare Improvement Unit, Queensland Health</td>
<td>$147,305.23</td>
<td>$147,305.23 (2018-2019)</td>
</tr>
<tr>
<td>Barbara Leggett, Vicki Whitehall</td>
<td>Conjoint Gastroenterology Laboratory</td>
<td>DNA Methylation in sessile serrated adenomas to predict malignant potential</td>
<td>RBWH Research Advisory Committee</td>
<td>$39,305</td>
<td>$39,305 (2018)</td>
</tr>
<tr>
<td>Richard Skoien, Olivia Cullen, Alison Kearney, Mary Fenech, Amy Legg, Joanne Mina</td>
<td>Department of Gastroenterology and Hepatology, RBWH</td>
<td>Quality of Life in Cirrhosis Project (The HepatoCare Pilot)</td>
<td>RBWH (SEED Initiative Funding)</td>
<td>$43,115</td>
<td>$123,750 (2017-2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

**Journal Articles:**


Journal Articles: (cont.)


Journal Articles: (cont):


Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

6. Walsh P. Has the time of the endoscopic surgeon arrived? Lessons learnt in the post bypass population, GESQ Quarterly meeting, September 2018. Brisbane
8. Huang JY. Emerging Role of Endohepatology, WCCD, Rome, November 2018
9. Huang JY. Role of endoscopic ultrasound in endohepatology, Australian EUS symposium, Adelaide, April 2018
10. Devereaux, B. Best practice colonoscopy in Australia in 2018: Item numbers as an instrument of change. Gastroenterology Society of Queensland educational meeting 2018, Brisbane
18. Richard Skoien. “Is inflammation still the key modifiable factor in liver disease progression?” talk. GESA Research Workshop 2018; Gold Coast
22. Devereaux, B. GESA Finishing School: Item numbers demystified. Australian Gastroenterology Week 2018
24. GL Radford-Smith, invited speaker, “No Guts, No Glory”, Brain Food Breakfast, World Science Festival, Brisbane, March 2018
25. GL Radford-Smith. “Inflammatory Bowel Diseases and Irritable Bowel Syndrome – An overview”. Australian Medical Forum, Brisbane, November 2018
Invited Speaker: (cont):


Oral Presentations:


2. Lim MH, Lord A, Simms LA, Hanigan K, Edmundson A, Rickard M, Sitz R, Clark D, Radford-Smith GL. Have changes in medical therapy and surgical techniques for ulcerative colitis altered post colectomy outcomes over the past 26 years? Australian Gastroenterology Week 2018, Brisbane


4. Lord A, Baird A, Simms LA, Krishnaprasad K, Hanigan K, Doecke JD, Bampton PA, Andrews JM, Geary RB, Radford-Smith GL, Lawrance IC. Crohn’s Disease Patients with at least one NOD2 Mutation and Who Smoke Regularly are Four Times as Likely to Need Two or more Resections. Australian Gastroenterology Week 2018, Brisbane.

Poster Presentations:


Department of Infectious Diseases Unit

In 2018, The RBWH Infectious Diseases Unit continued to produce international-standard, practice-changing clinical and translational research in partnership with the University of Queensland Centre for Clinical Research (UQCCR), Queensland Institute for Medical Research – Berghofer (QIMR-B) and other collaborators.

The international MERINO trial, co-ordinated in Brisbane by UQCCR, examined different antibiotic strategies for common drug-resistant bacterial infections. It was published in the Journal of the American Medical Association and has since had over 90 000-page views. The Infectious Diseases Society of America voted it as the trial most likely to change clinical practice in 2018. By applying the results of this study, it is estimated that more than 10,000 lives could be saved worldwide each year.

Professor Paterson and UQCCR continued to produce a large amount of other very high quality and highly-sited clinical infectious diseases research and are leading several new clinical trials of anti-infectives.

Professor McCarthy and his group at (QIMR-B) continued to publish critically important research addressing drug therapy for malaria and other parasitic infections. Professor McCarthy’s contribution to Australian science was acknowledged with the award of Fellowship of the Australian Academy of Health and Medical Sciences.

Dr Kate McCarthy was awarded her PhD for “Pseudomonas aeruginosa blood stream infections: clinical and molecular epidemiology, virulence and outcome.”

Drs Redmond, Wright, Chapman and Hajkowicz had a number of publications accepted and presented at international and national conferences.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.) University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Griffin</td>
<td>PhD UQ (2013-)</td>
<td>Human challenge studies in malaria</td>
<td>James McCarthy, David Looke</td>
</tr>
<tr>
<td>John Woodford</td>
<td>PhD UQ (2016-)</td>
<td>Microcirculatory disturbance in malaria</td>
<td>James McCarthy, Nick Anstey</td>
</tr>
<tr>
<td>Anand Odedra</td>
<td>PhD University of Liverpool (2017-)</td>
<td>Transmission of Malaria</td>
<td>James McCarthy, David Lalloo</td>
</tr>
<tr>
<td>Paul Chapman</td>
<td>PhD UQ (2017-)</td>
<td>A radiation-attenuated hookworm vaccine</td>
<td>James McCarthy, Alex Loukas</td>
</tr>
<tr>
<td>Dr Kate McCarthy</td>
<td>PhD, UQ (2014-2018)</td>
<td>Pseudomonas aeruginosa blood stream infections: Clinical and molecular epidemiology, virulence and outcome</td>
<td>David Paterson</td>
</tr>
<tr>
<td>Dr Hugh Wright</td>
<td>PhD, UQ (2017 -</td>
<td></td>
<td>David Paterson</td>
</tr>
<tr>
<td>Dr Patrick Harris</td>
<td>PhD, UQ (completed 2018)</td>
<td></td>
<td>David Paterson</td>
</tr>
<tr>
<td>Dr Andrew Henderson</td>
<td>PhD</td>
<td></td>
<td>David Paterson</td>
</tr>
<tr>
<td>Dr John McNamara</td>
<td>PhD</td>
<td></td>
<td>David Paterson</td>
</tr>
<tr>
<td>Dr Sanmarie Schlebusch</td>
<td>PhD</td>
<td></td>
<td>David Paterson</td>
</tr>
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</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>James McCarthy</td>
<td>NHMRC Practitioner Fellow</td>
<td>QIMR Berghofer</td>
<td>QIMR Berghofer (2002-current)</td>
</tr>
<tr>
<td>Anand Odedra</td>
<td>Medicines for Malaria</td>
<td>QIMR Berghofer</td>
<td>University of Liverpool (2017-)</td>
</tr>
<tr>
<td>Bridget Barber</td>
<td>NHMRC ECF</td>
<td>QIMR Berghofer</td>
<td>Menzies School of Health and Research</td>
</tr>
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</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>James McCarthy</td>
<td>Medicines for Malaria/multiple Pharma/Bill and Melinda Gates Foundation</td>
<td>Human Challenge Studies in malaria</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Paul Thomas (Nuclear Medicine)</td>
<td>In vivo imaging in malaria</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Robert Sauerwein (Netherlands)</td>
<td>Transmission studies in malaria</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Michael Good, Don McManus, Istvan Toth, Nicholas Anstey, Denise Doolan, Christian Engwerda, Alexander Loukas, Richard Price</td>
<td>Tropical diseases: translating discoveries into better health</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Gonzalo Domingo (PATH)</td>
<td>Biomarkers for Malaria Elimination</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Merck; Welcome Trust</td>
<td>MK5717</td>
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</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiffany Harris-Brown, Anna Donaldson, Kya Cottrell, Michelle Bauer, Dr Delaney Bumard, Susan Moss, A/Prof Mark Butler</td>
<td>Professor David Paterson</td>
<td>UQCCR Antibiotic Resistance – Paterson Group</td>
</tr>
<tr>
<td>Luke Coffey (QPP), Prof Charles Gilks (UQ)</td>
<td>Dr Andrew Redmond</td>
<td>Taking the Lead: Peer Delivery of Point of Care Testing for STI within a Community Setting</td>
</tr>
<tr>
<td>Dr Nina Hall, Professor Paul Memmott (UQ)</td>
<td>Dr Andrew Redmond</td>
<td>Housing and health: do housing repairs and maintenance improve community health?</td>
</tr>
<tr>
<td>Dr Patrick Harris, A/Prof Scott Beatson, Dr Brian Forde</td>
<td>Professor David Paterson, Dr Krispin Hajkowicz, Ms Michelle Doigde, Ms Trish Hurst</td>
<td>Queensland Genomic Health Alliance Microbiology Demonstration Project</td>
</tr>
<tr>
<td>A/Prof Lachlan Coin (UQ), Dr Seweryn Bialasiewicz (QPID), Dr Mark Blaskovich (UQ)</td>
<td>Dr Krispin Hajkowicz, Dr Marion Woods, A/Prof Glen Kennedy</td>
<td>Rapid detection of antibiotic resistant bacterial infection in patients with suspected sepsis</td>
</tr>
<tr>
<td>James McCarthy, John Woodford</td>
<td>Paul Thomas</td>
<td>In vivo images in malaria</td>
</tr>
<tr>
<td>James McCarthy, Anand Odedra</td>
<td>Glen</td>
<td>Apheresis in malaria</td>
</tr>
</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>James McCarthy</td>
<td>Fellow</td>
<td>Australian Academy of Health and Medical Sciences</td>
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</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kate McCarthy</td>
<td>Infectious Diseases Unit</td>
<td>Coalface Diabetic Foot Infection Study</td>
<td>RBWH Foundation</td>
<td>$15,000</td>
<td>$15,000 (2018)</td>
</tr>
<tr>
<td>Krispin Hajkowicz, David Whiley</td>
<td>Infectious Diseases Unit, Intensive Care Unit</td>
<td>Rapid detection of resistance genes from gram-negative bacteria isolated from blood in ICU-admitted patients</td>
<td>RBWH Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>David Paterson, Sharon Lewin, Tania Sorrell, J McVernon, S Webb, J Kaldor, R Andrews, Allen Cheng and others</td>
<td>Infectious Diseases Unit</td>
<td>Australian Partnership (for) Preparedness Research on Infectious Disease Emergencies (APPRISE) (NHMRC CRE administered by the University of Melbourne)</td>
<td>University of Melbourne</td>
<td>$27,500</td>
<td></td>
</tr>
<tr>
<td>Mark Blaskovich, Matthew Cooper, Karl Hansford, Jason Roberts and David Paterson</td>
<td>Infectious Diseases Unit, Intensive Care Unit</td>
<td>Lipopeptide antibiotics for XDR Gram-negative infections</td>
<td>NHMRC Development Grant</td>
<td>$994,897 (2018-2020)</td>
<td></td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Paterson, Sharon Chen, Tony Korman and Jenny Kok</td>
<td>Infectious Diseases Unit</td>
<td>Clostridium difficile Infections: burden, clinical practice and health outcomes in five large tertiary hospitals in Eastern Australia</td>
<td>Western Sydney Local Health District</td>
<td>$44,000</td>
<td>$44,000 (2018)</td>
</tr>
<tr>
<td>David Paterson, Andrew Henderson and Patrick Harris</td>
<td>Infectious Diseases Unit</td>
<td>Pilot Randomised Controlled Trial of Penicillin versus Flucloxacillin for Definitive Treatment of invasive Penicillin susceptible Staphylococcus aureus</td>
<td>Metro North Hospital and Health Service</td>
<td>44,000</td>
<td>$44,000 (2018)</td>
</tr>
<tr>
<td>David Paterson, Patrick Harris, Andrew Henderson and Jason Roberts</td>
<td>Infectious Diseases Unit</td>
<td>Rapid characterisation of pathogens for personalised antimicrobial selection in critically ill patients</td>
<td>Metro North Hospital and Health Service</td>
<td>$44,000</td>
<td>$44,000 (2018)</td>
</tr>
<tr>
<td>David Paterson, Len Gray, Mark Schembri, Ruth Hubbard, Christopher Freeman, Elaine Pascoe, Patrick Harris, Nancye Peel, Krispin Hajkowicz and others</td>
<td>Infectious Diseases Unit</td>
<td>Cluster randomised trial of a multimodal intervention to reduce antimicrobial use in residential aged care facilities</td>
<td>NHMRC MRFF – Antimicrobial Resistance Targeted Call for Research</td>
<td>$1,199,976 (2018-2023)</td>
<td></td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Infectious Diseases</td>
<td>Centre for Research Excellence in Malaria Elimination</td>
<td>NHMRC</td>
<td>$500,315.30</td>
<td>$2,470,291.30 (2017-2022)</td>
</tr>
<tr>
<td>James McCarthy</td>
<td>Infectious Diseases</td>
<td>T-follicular helper cell subsets that induce protective anti-Plasmodium falciparum antibodies</td>
<td>NHMRC</td>
<td>$152,087.16</td>
<td>$456,261.50 (2017–2019)</td>
</tr>
<tr>
<td>James McCarthy</td>
<td></td>
<td>NHMRC Practitioner Fellowship GNT1135955 Project: Translational Studies in Malaria</td>
<td>NHMRC</td>
<td>$100,331.85</td>
<td>$507,679.17 (2018-2022)</td>
</tr>
<tr>
<td>James McCarthy, Nicholas Anstey, Denise Doolan, Christian Engwaerda, Michael Good, Alex Loukas, Don McManus, Richard Price, Istvan Toth</td>
<td>Infectious Diseases</td>
<td>NHMRC Program Grant GNT1132975 Project: Tropical diseases: translating discoveries into better health</td>
<td>NHMRC</td>
<td>$4,016,182.25 (Total)</td>
<td>$20,321,882.17 (Total)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles
Journal articles: (cont):


Journal articles: (cont)


32. Edwards CL, Ng SS, Corvino D, Montes de Oca M, Rivera FL, Nones K, Laksis V, Waddell N, Amante F, McCarthy JS, Engwerda CR. Early changes in CD4+ T cell activation following blood-stage Plasmodium falciparum infection. 2018 Infect Dis


2018 Conference Presentations—Invited Speaker, Oral and Poster

Invited Speaker:
1. Microbial Genomics – A Case Study. Australasian College for Infection Prevention and Control Annual Scientific Meeting, Brisbane, November 2018
2. Krispin Hajkowicz - Surgical Prophylaxis – The Evidence or Lack Thereof. Australian Society for Antimicrobials Annual Scientific Meeting, Brisbane, February 2018
3. Krispin Hajkowicz – Metagenomic Sequencing. Australian national antimicrobial resistance and stewardship forum, Melbourne, November 2018
5. James McCarthy – exploiting new understanding of the stage transition of Plasmodium to develop a model able to interrogate transmission, American Society of Tropical Medicine and Hygiene (ASTMH) 67th Annual Meeting, November 2018, New Orleans
6. James McCarthy – the induced blood stage malaria model: a tool to accelerate the development of new interventions against malaria. Joint International Tropical Medicine Meeting (JITMM), January 2018, Bangkok
10. James McCarthy – learnings from experimental human malaria infection studies, Walter & Eliza Hall Institute, November 2018, Melbourne
11. Krispin Hajkowicz – Carbapenem-Resistant Acinetobacter baumannii (CRAB) Outbreak Control using.

Oral Presentations;
1. Characterization of new antimalarial combinations in Induced Blood Stage Malaria studies James S. McCarthy
2. A randomized controlled trial comparing parasite clearance profiles after single dose artesunate among subjects experimentally infected with artesinin-resistant or artesimin-sensitive Plasmodium falciparum parasites. Rebecca E. Watts, Maria Rebelo, Anand Odedra, Jörg J. Möhrle, Stephan Chalon, Louise Marquart, James S. McCarthy

Poster Presentations:
2. Safety and feasibility of apheresis to harvest and concentrate parasites in subjects with induced blood stage Plasmodium vivax infection Anand Odedra, Rebecca Pawliw, Rebecca Watts, Kari Mudie, Glen Kennedy, David Laloo, James McCarthy
4. Brodie B, Hurst T, Doidge M. The Effectiveness of a Dedicated Cleaning Team Post discharge: a reduction of positive environments. ACIPC 2018, Brisbane
5. Gabatan I, de Ruiter C, Doidge M, Hurst T, Haddock T. RBWH Hand Hygiene Program: leading the way to success, a two-year observational study of the hand hygiene compliance of Urology ward, ACIPC 2018, Brisbane.
The Internal Medicine Research Unit supports investigator initiated collaborative research including basic, clinical and health services studies intended to directly improve hospital and post-hospital patient outcomes. We have expertise in design and evaluation of complex interventions using multi-methods research, and collaborate with a range of universities and health services.

Our main focus areas are:

- Hospital-associated complications and frailty in older inpatients
- Multidisciplinary collaborative models of care for inpatients
- Multidisciplinary management of chronic diseases including heart failure and Fabry disease
- Safe prescribing
- Quality improvement methods, health services research methods and implementation science.

Research highlights of 2018 include:

- Collaboration with a wide range of disciplines (medicine, nursing, nutrition and dietetics, occupational therapy, pharmacy) and specialty services (cancer care, nephrology, cardiology, geriatrics, critical, care emergency care, psychiatry, surgery)
- Publication of the primary outcomes of the 5-site EJECTION-HF randomised controlled trial in Journal of the American College of Cardiology-Heart Failure
- Ongoing analysis of CHERISH cluster randomised controlled trial, with publication of primary outcome validation paper in Journal of the American Geriatrics Society
- Completion of a hospital-wide point prevalence audit of cognitive impairment in older patients at RBWH, with preliminary results presented at the Australasian Delirium Association Meeting and the Australasian Association of Gerontology meeting
- Publication of evidence of long term (10 year) improvements in nutrition care, recognised with a highly commended award in the Metro North Research Awards (complex healthcare challenges) and presented at the prestigious American Geriatrics Society conference
- Dr Adrienne Young was awarded the CAHRLI prize for Outstanding Leadership in Research, Learning and Innovation, and was RBWH Health Practitioner Researcher of the Year
- Dr Alison Mudge was awarded a Metro North Clinician Research Fellowship
- Two of our postgraduate students submitted their PhD thesis for examination.

In addition, we have built substantial capacity in implementation science and knowledge translation, collaborating with local and national partners. Activities led by Dr Mudge, Dr Young and Prue McRae have included a monthly knowledge translation interest group supporting 20 health professionals from diverse backgrounds; a 3-day Knowledge Translation course in Adelaide, hosted by Flinders University; and support for Sally Barrimore in leading MNHHS Allied Health-Translation into Practice (AH-TRIP) project.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Adsett</td>
<td>PhD Griffith</td>
<td>2012-2018</td>
<td>Exercise rehabilitation for patients with stable heart failure</td>
<td>Norman Morris, Suzanne Kuys, Jennifer Paratz, Alison Mudge</td>
</tr>
<tr>
<td>Angela Byrne</td>
<td>PhD UQ</td>
<td>2015-2018</td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: a multiphasic, action research study</td>
<td>Judy Bauer, Adrienne Young, Alison Mudge, Merrilyn Banks</td>
</tr>
<tr>
<td>Karen Lee-Steer</td>
<td>M Phil UQ</td>
<td>2017-2020</td>
<td>Improving the care of the older patient with or at risk of delirium in the acute care setting: patient and carer perspectives</td>
<td>Sally Bennett, Jacki Liddle, Alison Mudge</td>
</tr>
<tr>
<td>Brooke Myers</td>
<td>PhD, UQ</td>
<td>2014-current</td>
<td>Role of the Pharmacist on the Medical Post-Take Ward Round</td>
<td>Ian Coombes, Charles Mitchell, Peter Donovan, Jennifer Whitty</td>
</tr>
</tbody>
</table>
## 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alison Mudge</td>
<td>Adjunct Professor</td>
<td>Improving acute and post-hospital care of older patients</td>
<td>QUT (2013-2018)</td>
</tr>
<tr>
<td>Charles Denaro</td>
<td>Associate Professor</td>
<td>Screening for Fabry Disease in Chronic Kidney Disease</td>
<td>UQ (1998-current)</td>
</tr>
<tr>
<td>Dylan Flaws</td>
<td>Queensland Junior Doctor Fellowship</td>
<td>Developing and validating a delirium risk score in older inpatients</td>
<td>QUT (2016-2018)</td>
</tr>
<tr>
<td>Prue McRae</td>
<td>Adjunct Senior Lecturer and postdoctoral fellow</td>
<td>Preventing delirium and improving mobility</td>
<td>QUT (2018)</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Adjunct Assoc Professor</td>
<td>Nutrition in older adults and hospital inpatients</td>
<td>Queensland University of Technology (2013–current)</td>
</tr>
<tr>
<td>Samantha Olenski</td>
<td>Project manager and postdoctoral fellow</td>
<td>Nutrition care</td>
<td></td>
</tr>
</tbody>
</table>

## 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young</td>
<td>Mikaela Wheeler (UQ), Angela Byrnes, Alison Mudge</td>
<td>Co-designing a project to explore patient mealtime environments and experience</td>
</tr>
<tr>
<td>Angela Byrnes</td>
<td>Adrienne Young, Merrilyn Banks, Alison Mudge, Judy Bauer (UQ)</td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: a multiphase, action research study</td>
</tr>
<tr>
<td>Alison Mudge</td>
<td>Alison Mudge, Prue McRae, Samantha Olenski, Elise Treleaven, Margaret Cahill, Karen Lee-Steere</td>
<td>Delirium Day: a hospital wide quality audit</td>
</tr>
<tr>
<td>Alison Mudge</td>
<td>Merrilyn Banks, Adrian Barnett (QUT), Irene Blackberry (Latrobe), Ann Chang (QUT), Nick Graves (QUT), Ruth Hubbard (UQ), Sharon Inouye (Harvard), Sue Kunle (Uni of Sydney), Kwan Lim (Uni of Melbourne), Prue McRae, Nancye Peel (UQ), Adrienne Young</td>
<td>CHERISH Collaborative for Hospitalised Elders: reducing the Impact of Stays in Hospital</td>
</tr>
<tr>
<td>Julian de Looze</td>
<td>Julian de Looze, Joan Webster, Charles Denaro, Alison Mudge, John Gowardman, Robyn Fox, Catriona Booker, Peter Thomas, Samantha Olenski, Elise Treleaven, Melissa Eastgate, Tracy Glynn</td>
<td>Patients of Concern: a qualitative exploratory study within the Royal Brisbane and Women’s Hospital</td>
</tr>
<tr>
<td>Julie Adsett</td>
<td>Julie Adsett, Alison Mudge, Norm Morris (Griffith Un)</td>
<td>Exercise adherence and outcomes in heart failure patients: substudy of EJECTION-HF</td>
</tr>
<tr>
<td>Alison Mudge</td>
<td>Alison Mudge, Dylan Flaws, Gerard Byrne</td>
<td>Systematic review of tools to predict delirium during adult inpatient admissions</td>
</tr>
<tr>
<td>Alison Mudge</td>
<td>Alison Mudge, Margaret Shaw</td>
<td>Effect of pre-planned physician involvement in care of adult surgical patients on clinical and health service outcomes: a systematic review</td>
</tr>
<tr>
<td>Samantha Olenski</td>
<td>Alison Mudge, Adrienne Young, Prue McRae, Elise Treleaven, Kimberly Mallan (ACU), Zoe Walsh (CISS), Jill Ross (CISS), Alanna Geary (Nursing and Midwifery)</td>
<td>Developing and validating a novel survey to identify barriers and enablers to improving nutrition care in acute and subacute inpatient settings</td>
</tr>
<tr>
<td>Prue McRae</td>
<td>Alison Mudge, Jesse Spurr, Kaye Rolls</td>
<td>Getting Eat Walk Engage to talk-is a virtual community of practice acceptable?</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Peter Donovan, Alison Mudge, Jenny Martin (Uni Newcastle), Michael Barras (Princess Alexandra Hospital), James Rowland, Champika Pattullo</td>
<td>Interventions to improve safety and quality in the management of anticoagulants for therapeutic indications in hospital inpatients: systematic review</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Ian Coombes, Glen Kennedy (Cancer Care Services), Alison Mudge (Internal Medicine), Champika Pattullo (Clinical Pharmacology), Bonnie Tai (Prince Charles Hospital)</td>
<td>Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Michael Barras, (Princess Alexandra Hospital), Ian Coombes, Jason Roberts, Ms Carla Scuderi (Pharmacy), Charles Denaro (Internal Medicine), John Atherton, Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)</td>
<td>Development of a therapeutic range for enoxaparin in patients with renal impairment</td>
</tr>
</tbody>
</table>
## 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group/Department</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Donovan</td>
<td>Nicola Harper, Dr Danielle Stowasser, Natasha Truloff (Metro North IT), Ian Coombes, (Pharmacy), Charles Denaro (Internal Medicine), Timothy Dunn (Caboolture Hospital Pharmacy), Anita Pelecanos (QIMR Berghofer)</td>
<td>Evaluation of the Implementation of Electronic Prescribing using Interrupted Time-Series Analysis at Two Hospitals in Queensland</td>
</tr>
<tr>
<td>Peter Donovan</td>
<td>Champika Pattullo, Anthony Bell, David Arroyo</td>
<td>Trends in Opioid Prescribing in Australia: a Systematic Review</td>
</tr>
<tr>
<td>Michael Tresilian</td>
<td></td>
<td>Diagnosis delirium: improvement project</td>
</tr>
</tbody>
</table>

## 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laurie Grealish (Griffith/GCUH)</td>
<td>Alison Mudge, Margaret Cahill</td>
<td>Using Normalisation Process Theory to engage nurses in delirium care</td>
</tr>
<tr>
<td>Helen Edwards, Patricia Sinasac, Kathleen Finlayson, Fiona Coyer,</td>
<td>Alison Mudge, Kerrie Coleman</td>
<td>Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity model: Protecting Skin Integrity</td>
</tr>
<tr>
<td>Natasha Roberts (Cancer Care Services)</td>
<td>Monica Janda (QUT), Alison Mudge, Kimberly Alexander, David Wyld</td>
<td>i-PROMOS: Implementing Patients Reported Outcome Measures in Oncology Outpatients</td>
</tr>
<tr>
<td>Dylan Flaws (Mental Health)</td>
<td>Alison Mudge, Gerard Byrne (Mental Health), Prue McRae, Megan Nitz (Mental Health), Conor O’Launaiagh (TPCH), Trevor Hollingsworth (Caboolture), Adrienne Young</td>
<td>Delirium in older psychiatry inpatients: protocol for an observational study</td>
</tr>
<tr>
<td>Phillip Robinson (Rheumatology)</td>
<td>Peter Donovan, Nicole Dalbeth (University of Auckland, Auckland Hospital)</td>
<td>A Health Economic Analysis Colchicine Therapy for Gout Prophylaxis</td>
</tr>
<tr>
<td>Ian Coombes (Pharmacy)</td>
<td>Peter Donovan, Charles Mitchel (UQ), Brooke Myers, Christy Noble, (Gold Coast University Hospital, Griffith University)</td>
<td>Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback</td>
</tr>
<tr>
<td>Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children’s Research Institute), Dr Katrina Spilsbury (Curtin University of Technology)</td>
<td>Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</td>
<td>IMPROVE – Investigating Medication Re-Purposing to Reduce risk of Ovarian cancer and Extend survival</td>
</tr>
<tr>
<td>Louise Cullen (Emergency and Trauma Centre)</td>
<td>Nathan Brown, Peter Donovan, Ian Coombes, Jaimi Greenslade, David Hughes, Elizabeth Doran</td>
<td>Prevalence and characteristics of medication-related presentations to the emergency department. Emergency and Trauma Centre, Royal Brisbane and Women’s Hospital.</td>
</tr>
<tr>
<td>W Hoy (UQ)</td>
<td>Andrew Mallett, Helen Healy, Charles Denaro, Mark Thomas, Vincent Lee.</td>
<td>aCQuiRE: to determine the prevalence of Fabry Disease in individuals with chronic kidney disease</td>
</tr>
<tr>
<td>David Copland (UQ), Tracy Roxbury (UQ), Katie McMahon (UQ), Greig de Zubicaray (QUT), Marcus Meinzer (UQ)</td>
<td>Penni Burford (SP), Anna Farrell (SP), Dr Kana Appadurai (GARU), Dr Andrew Wong (Stroke), Prof Alan Couthard</td>
<td>Predicting and Promoting Sub-Acute Aphasia Recovery</td>
</tr>
<tr>
<td>Linda Worrall (UQ), David Copland (UQ), Melissa Lawrie (Gold Coast HHS), Liz Ward (UQ), Moya Pattie (Wesley)</td>
<td>Penni Burford (SP) (GARU), Anna Farrell (SP)</td>
<td>Can a new, intensive model of aphasia rehabilitation achieve better outcomes than usual care?</td>
</tr>
</tbody>
</table>
2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrienne Young, Merrilyn Banks, Alison Mudge</td>
<td>Highly Commended, Complex Health Challenges</td>
<td>MNHHS Research Excellence Awards, 22nd May 2018</td>
</tr>
<tr>
<td>Margaret Shaw</td>
<td>Ramesh Nagappan Memorial Prize</td>
<td>Internal Medicine Society of Australia and New Zealand Annual Scientific Meeting</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Outstanding Leadership in Research, Learning and Innovation</td>
<td>CAHRLI, 20th June 2018</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>Health Practitioner Researcher of the Year</td>
<td>RBWH Research Symposium, 11-13th September 2018</td>
</tr>
<tr>
<td>Adrienne Young</td>
<td>2019 Royal Alumni Research Encouragement Award</td>
<td>2019 RBWH and RBWH Foundation Grant Awards Ceremony</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olenski S, Mudge A, Young A, McRae P, Mailan K.</td>
<td>Internal Medicine Research Unit; RBWH Department of Nutrition and Dietetics</td>
<td>Developing and validating a nutrition care survey</td>
<td>RBWH Research Foundation</td>
<td>$9,041</td>
<td>$32,000 (2018-2019)</td>
</tr>
<tr>
<td>Edwards H, Coleman K, Sinascar P, Finaryon K, Coyer F, Schluter J, Parker C, Mudge A</td>
<td>Internal Medicine Research Unit, Skin Integrity Service</td>
<td>Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model-Protecting Skin Integrity</td>
<td>Queensland Health Nursing and Midwifery Fellowships</td>
<td>$39,795</td>
<td>$119,385 (2017-2019)</td>
</tr>
<tr>
<td>Mudge A, McRae P, Cahill M, Lee-Steeke K, Finnigan S</td>
<td>Internal Medicine Research Unit</td>
<td>Dementia and delirium day: a point prevalence study</td>
<td>RBWH Research Foundation</td>
<td>$27,180</td>
<td>$32,180 (2018-2019)</td>
</tr>
<tr>
<td>De Looze J, Denaro C, Lipman J, Webster J, Mudge A, Thomas P, Olenski S</td>
<td>Internal Medicine and Aged Care, Internal Medicine Research Unit, Intensive Care Unit, Centre for Nursing Research</td>
<td>Identifying patients of concern</td>
<td>RBWH Research Foundation</td>
<td>$15,537</td>
<td>$40,000 (2017-2018)</td>
</tr>
<tr>
<td>Lee-steeke, K., Bennett, S., Liddle, J. and Mudge, A.</td>
<td>Internal Medicine Research Unit; RBWH and UQ</td>
<td>Improving the care of the older patient with or at risk of delirium in the acute care setting: patient and carer perspectives</td>
<td>RBWH Research Foundation</td>
<td>$36,863</td>
<td>$36,863 (2017-2019)</td>
</tr>
<tr>
<td>Byrnes, A.</td>
<td>Nutrition and Dietetics; Internal Medicine Research Unit</td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: A multiphase, Action Research study</td>
<td>RBWH Scholarship (top-up)</td>
<td>$6,000</td>
<td>$6,000 (2018)</td>
</tr>
<tr>
<td>Louise Cullen, Nathan Brown, Peter Donovan, Ian Coombes, Jaimi Greenslade, David Hughes, Elizabeth Doran</td>
<td>Emergency and Trauma Centre, Pharmacy, Clinical Pharmacology, Internal Medicine and Aged Care</td>
<td>Prevalence and characteristics of medication-related presentations to the emergency department. Emergency &amp; Trauma Centre, Royal Brisbane and Women’s Hospital</td>
<td>Emergency Medicine Foundation</td>
<td>$31,410</td>
<td>$31,410 (2018)</td>
</tr>
<tr>
<td>Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children’s Research Institute), Dr Katrina Spilsbury (Curtin University of Technology), Dr Peter Donovan</td>
<td>Clinical Pharmacology, Internal Medicine and Aged Care</td>
<td>IMPROVE – Investigating Medication Re-Purposing to Reduce risk of Ovarian cancer and Extend survival</td>
<td>National Health and Medical Research Council</td>
<td>$95,104</td>
<td>$438,313.20 (2017-2021)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Hoy, A Mallett, H Healy, C Denaro, M Thomas, V Lee</td>
<td>CKD.QLD, Centre for Chronic Disease UQ; Internal Medicine Research Unit</td>
<td>aCQuiRE: assessing the prevalence of Fabry disease in CKD</td>
<td>Sanofi-Genzyme</td>
<td>$236,638</td>
<td>$946,554 (2016-2019)</td>
</tr>
<tr>
<td>Penni Burfein</td>
<td>Speech Pathology/ GARU</td>
<td>Return to work for younger stroke survivors with aphasia in the Australian context</td>
<td>CAHLRI Pre-PhD/Pre-MPhil Scholarship</td>
<td>$13,077</td>
<td>$13,077 (2018)</td>
</tr>
<tr>
<td>Sarah Wallace, David Copland, Stephen Birch, Anna Farrell, Penni Burfein, Anne Hill, Tanya Rose, Madeline Cruice</td>
<td>Speech Pathology</td>
<td>The health and economic value of a speech pathology student placement delivering technology-enhanced treatment for aphasia</td>
<td>University of Queensland Health and Behavioural Science Faculty Economic and Health Value of Student Placements Research Grants</td>
<td>$50,000</td>
<td>$50,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

1. Mudge AM, Denaro CP, Scott A et al. Addition of supervised exercise training to a post-hospital disease management program for patients recently hospitalized with acute heart failure: the EJECTION-HF randomized trial. JACC: Heart Failure Feb 2018, 6 (2) 143-152
3. Lynch EA, Mudge A, Knowles S, Kitons AL, Hunter SC, Harvey G. "There is nothing so practical as a good theory": a pragmatic guide for selecting theoretical approaches for implementation projects. BMC Health Serv Res 2018; 18:857
5. Byrnes A, Young A, Banks M, Mudge A, Bauer J. Exploring practice gaps to improve perioperative nutrition care (Experience Study): a qualitative study to identify barriers to implementation of evidence-based practice guidelines Eur J Clin Nutr published online 14 August doi.or/10.1038/s41430-018-0276-x
11. Young A, Mudge A, Banks M. Improving nutrition care and intake for older hospital patients through system-level dietary and mealtime interventions. Clinical Nutrition ESPEN 2018; 24:140-147
Invited Speaker:

1. Mudge, A. Collaborative co-management of older surgical patients: how do physicians add value? Australia and New Zealand College of Anaesthetists Perioperative Medicine Special Interest Group Meeting Melbourne 2018

2. Mudge A. Impact of frailty on exercise and heart failure. Cardiac Society of Australia and New Zealand Annual Scientific Meeting Brisbane August 2018

3. Mudge A. Mobility, frailty and exercise in older people. Australian Cardiovascular Health and Rehabilitation Association Annual Scientific Meeting Brisbane August 2018


Oral Presentations:


3. Treleaven E, Mudge A, McRae P, Lee-Steele K, Cahill M. Delirium Day: cognitive impairment and the carer experience. DECLARED Australasian Delirium Association meeting Melbourne September 2018

4. Shaw M, Mudge A. Effectiveness of physician involvement in care of surgical patients: a systematic review and meta-analysis. Internal Medicine Society of Australia and New Zealand Annual Scientific Meeting Queenstown September 2018


Poster Presentations:


2. Worrall J, Byrnes A, Banks M, Mudge A, Young A, Bauer J. Postoperative oral intake of older (≥65 years) general surgical patients and factors associated with inadequate intake on postoperative day 2. Dietitians Association of Australia. May 2018

3. Young A, Banks M, Kwek T, Mudge A. Improving nutritional intake and care for older inpatients: a ten-year journey of quality improvement and research in practice. Annual Scientific Meeting of the American Geriatrics Society, May 2018

4. Young A, Mudge A, McRae P, Gray L, Beattie E, Graham F, Whiting L, Banks M, Hubbard R. Toward the Older Person Friendly Hospital: barriers and enablers within the Australian context. Annual Scientific Meeting of the American Geriatrics Society, May 2018

5. Ian Coombes, Peter Donovan, Brooke Myers, Christy Noble, Charles Mitchell. Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback. Australasian Society of Experimental and Clinical Pharmacologist and Toxicologist Annual Scientific Meeting, Nov 2018


7. Adsett J, Hickey A, Foreman R. Heart Education Assessment Rehabilitation Toolkit (HEART) Online: 5 Years On. Heart Lung Circ. Cardiac Society of Australia and New Zealand Annual Scientific Meeting, Brisbane August 2018


Other Communications and Outputs:

Adrienne Young. Older people in hospital are having their cake and eating it too: A 10-year journey to improve nutrition at the Royal Brisbane and Women’s Hospital. The Australian Hospital Healthcare Bulletin p56-7, Winter 2018


Alison Mudge. Invited visiting scholar Flinders Medical Centre 2019 including keynote address "Eat Walk Engage: improving hospital care of older people"

Alison Mudge. Invited speaker AusHSI Knowledge Translation Showcase QUT Gardens Point November 2018

Alison Mudge, Prue McRae, Adrienne Young. Facilitators and co-leads, Knowledge Translation 3-day workshop, Flinders University November 2018.

IMDTU staff participated in two research trials in this period:

Epstein–Barr virus-specific T cell therapy for progressive multiple sclerosis (PI Prof M. Pender)

The free cortisol response to Synacthen and other aspects of Endocrine. Physiology in Healthy Participants: (PI Dr Gladness Nethathe).
Kidney Health Service

More of our people presented the excellent work we do in national and international places in 2018, normalising research in our workplaces.

In addition to mentoring these early career researchers the Kidney Health Research Leadership Group collectively supervised 25 Research Higher Degree students, three to completion. The Group developed our research capacity further through a Visiting Scholar program, hosting five International Academics to interact with our staff, and three Symposia, to broaden our networks. Their work has attracted named awards from Academic and Government Institutions.

Research revenue in calendar year 2018 was in excess of $3M. Grant funding into 2019 is secured including >$500,000 in new NHMRC funding, one of Australia’s most prestigious granting bodies. In addition, our RHD students continue to be successful in winning new start and renewal scholarships from Academic and Government Institutions to support themselves during their studies.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marina Cousins</td>
<td>PhD, CQU (2018-2024)</td>
<td></td>
<td>Interpersonal relationships with people receiving haemodialysis</td>
<td>Julie Bradshaw, Ann Bonner</td>
</tr>
<tr>
<td>Kushani Jayasinghe</td>
<td>Doctor of Philosophy, UQ (2014-2018)</td>
<td></td>
<td>“Clinical utility of targeted whole exome sequencing within a multidisciplinary renal genetics clinic”</td>
<td>Andrew Mallet</td>
</tr>
<tr>
<td>Muhammad Ali Khan</td>
<td>PhD, UQ (2017-2020)</td>
<td></td>
<td>Treating chronic kidney disease with plant extracts of elephant foot yam</td>
<td>Glenda Gobe, Andrew Kassianos, Helen Healy</td>
</tr>
<tr>
<td>Lan Van Hoang</td>
<td>PhD, QUT (2016-2019)</td>
<td></td>
<td>Relationship between health care supports, social supports and patient outcomes among haemodialysis population in Vietnam</td>
<td>Ann Bonner, Theresa Green</td>
</tr>
<tr>
<td>Dominique McConnachie</td>
<td>Doctor of Philosophy, UQ (2017-2019)</td>
<td></td>
<td>&quot;Phenotype-genotype correlations in cystic kidney disease&quot;</td>
<td>Andrew Mallet</td>
</tr>
<tr>
<td>Amanda Mckie</td>
<td>MPhil, QUT (2018-2022)</td>
<td></td>
<td>Understanding nurses’ perception of sexual dysfunction in people with end stage kidney disease requiring haemodialysis</td>
<td>Ann Bonner, Theresa Green</td>
</tr>
<tr>
<td>David McIntyre</td>
<td>PhD, QUT (2016-2022)</td>
<td></td>
<td>The development and validation of haemodialysis nurse sensitive indicators</td>
<td>Ann Bonner, Fiona Coyer</td>
</tr>
<tr>
<td>Molly Milazi</td>
<td>DHlthSc, QUT (2014-2020)</td>
<td></td>
<td>Nurse-led teach back intervention to improve people with End Stage Kidney Disease adherence with phosphate control</td>
<td>Ann Bonner, Clint Douglas</td>
</tr>
<tr>
<td>Pauline Nicholas</td>
<td>MPhil, QUT (2017-2020)</td>
<td></td>
<td>Measuring the prevalence of mild cognitive impairment in end stage kidney disease</td>
<td>Ann Bonner, Theresa Green, Louise Purtell</td>
</tr>
<tr>
<td>Arti Raghubar</td>
<td>Masters, UQ (2016-2018)</td>
<td></td>
<td>Investigating underlying molecular processes in IgA nephropathy cases using SWATH-MS</td>
<td>Andrew Mallett, Andrew Kassianos, Helen Healy</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.) University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cassandra Rawlings</td>
<td>PhD, UQ (2018-2024)</td>
<td>“Elderly and frail patients with kidney disease: experiences in different care pathways”</td>
<td>Helen Healy, Ann Bonner</td>
</tr>
<tr>
<td>Haunnah Rheault</td>
<td>DHealthSc, QUT (2016-2022)</td>
<td>Health literacy and chronic disease self-management in Indigenous Australians</td>
<td>Ann Bonner, Fiona Coyer</td>
</tr>
<tr>
<td>Senanayake Sameera</td>
<td>PhD, QUT (2018-2020)</td>
<td>“Prediction of graft survival and cost effectiveness of kidney transplantation according to donor quality levels in Australia”</td>
<td>Sanjeewa Kularatna, Nicholas Graves, Helen Healy, Keshwar Baboolal</td>
</tr>
<tr>
<td>Carla Scuderi</td>
<td>PhD, UQ (2017-2023)</td>
<td>“Improving patient centred outcomes in kidney transplant recipients”</td>
<td>Christine Staatz, Helen Healy, Andrew Mallett</td>
</tr>
<tr>
<td>Nicole Wu</td>
<td>PhD</td>
<td>Regulation of NCC in health, diseases of salt homeostasis</td>
<td>Michael Stowasser, Martin Wolley</td>
</tr>
<tr>
<td>Harith Yapa</td>
<td>PhD, QUT (2017-2020)</td>
<td>Perceived palliative care needs of patients with Chronic Kidney Disease (CKDu) in Sri Lanka</td>
<td>Ann Bonner, Louise Purcell, Shirley Connell</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann Bonner</td>
<td>Honorary Research Fellow</td>
<td>Renal Nursing Professorial Unit</td>
<td>Queensland University of Technology – QUT (2011-current)</td>
</tr>
<tr>
<td>Ann Bonner</td>
<td>Honorary Professor</td>
<td>Faculty of Nursing and Midwifery</td>
<td>Hanoi Medical University (2014-current)</td>
</tr>
<tr>
<td>Ann Bonner</td>
<td>Visiting Renal Nurse Scholar</td>
<td>Renal Medicine</td>
<td>Princess Alexandra Hospital (2013-current)</td>
</tr>
<tr>
<td>Ann Bonner</td>
<td>Visiting Nurse Scholar</td>
<td>Department of Nursing</td>
<td>Logan and Beaudesert Hospitals (2014-current)</td>
</tr>
<tr>
<td>Ann Cameron</td>
<td>Manager</td>
<td>CKD.QLD and CKD.CRE</td>
<td>UQ (xxxx-current)</td>
</tr>
<tr>
<td>Vishal Diwan</td>
<td>Research Appointment</td>
<td>NHMRC Chronic Kidney Disease Centre for Research Excellence and University of Queensland.</td>
<td>Research Assistant, Faculty of Medicine, University of Queensland</td>
</tr>
<tr>
<td>Kurt Giuliani</td>
<td>Research Assistant</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>(2018-current)</td>
</tr>
<tr>
<td>Sebastian Hutilin</td>
<td>Research Student</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>2018</td>
</tr>
<tr>
<td>Matthew Jose</td>
<td>Credentialed Honorary Research Appointment</td>
<td>Kidney Genetics and Genomics Program</td>
<td>Royal Hobart Hospital and University of Tasmania</td>
</tr>
<tr>
<td>Andrew Kassianos</td>
<td>Post-doctoral Fellow</td>
<td>School of Biomedical Sciences, Conjoint Kidney Research Laboratory</td>
<td>Queensland University of Technology – QUT (2013-current)</td>
</tr>
<tr>
<td>Andrew Kassianos</td>
<td>Honorary Fellow</td>
<td>School of Medicine</td>
<td>University of Queensland – UQ (2015-current)</td>
</tr>
<tr>
<td>Katrina Kildey</td>
<td>Post-doctoral Fellow</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>(2017-current)</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>Credentialed Honorary Medical Officer,</td>
<td>Children’s Hospital Westmead Clinical Liaison and Multidisciplinary Team, Australian Renal Gene Panels</td>
<td>2016 – Present</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>Credentialed Honorary Medical Officer,</td>
<td>Children’s Health Queensland (Lady Cilento Children’s Hospital)</td>
<td>2016 – Present</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>Research Fellowship</td>
<td>RACP Jacquot Research Establishment Fellowship</td>
<td>2018</td>
</tr>
<tr>
<td>Dominique McConnachie</td>
<td>Honorary Research Appointment</td>
<td>University of Queensland Institute for Molecular Bioscience</td>
<td>University of Queensland – UQ (2018 - current)</td>
</tr>
<tr>
<td>Louise Purcell</td>
<td>Honorary Post-Doctoral Fellow</td>
<td>Health Services Research Group</td>
<td>QUT (2016 – current)</td>
</tr>
<tr>
<td>Xiangiu Wang</td>
<td>Research Assistant</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>(2012-current)</td>
</tr>
<tr>
<td>Zaimin Wang</td>
<td>Honorary Post-Doctoral Fellow</td>
<td>CKD.QLD and CKD.CRE</td>
<td>UQ (xxxx-current)</td>
</tr>
<tr>
<td>Ray Wilkinson</td>
<td>Post-doctoral Fellow</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>QUT (-2018), UQ (-2018)</td>
</tr>
<tr>
<td>Jenny Zhang</td>
<td>Honorary Post-Doctoral Fellow</td>
<td>CKD.QLD and CKD.CRE</td>
<td>UQ (xxxx-current)</td>
</tr>
<tr>
<td>RBWH Research Group/Department</td>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
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<td></td>
</tr>
<tr>
<td><strong>Conjoint Kidney Research Group – Mechanisms of Progression of CKD</strong> &lt;br&gt;Helen Healy</td>
<td>Andrew Kassianos, George John, Andrew Mallett, Katrina Kldey, Ray Wilkinson (QPath), Xiangju Wang (QPath), Kurt Giulianii (QPath), Becker Law (QUT), Arti Raghubar (QPath), Muhammad Ali Khan (UQ)</td>
<td>Treating progressive chronic kidney disease (CKD) by targeting how proximal tubular epithelial cells (PTEC) control the inflammatory micro-environment – a program of research into how PTEC regulate cells of the immune response in the inflammatory phase of CKD</td>
<td></td>
</tr>
<tr>
<td><strong>Conjoint Kidney Research Group - Mechanisms of Chronic Kidney Rejection</strong> &lt;br&gt;Helen Healy</td>
<td>Andrew Kassianos, Katrina Kldey, George John, Ray Wilkinson (QPath), Ross Francis (PAH), Sebastian Hultin</td>
<td>Targeting proximal tubular epithelial cells (PTEC) in chronic allograft nephropathy – a program of research into changing long-term graft loss in kidney transplantation through modification of the functions of PTEC</td>
<td></td>
</tr>
<tr>
<td><strong>CKD.Qld Collaborative</strong> &lt;br&gt;Helen Healy</td>
<td>Wendy Hoy (UQ)</td>
<td>Co-Chairs, CKD.QLD – a collaborative of clinicians in the public kidney practices in Queensland and academics for the purposes of studying the natural history of chronic kidney disease, practice patterns across the state and biobanking of biosamples with linked phenotypes</td>
<td></td>
</tr>
<tr>
<td><strong>Health Services Implementation Group - Keeping Kidney Collaborative</strong> &lt;br&gt;Helen Healy</td>
<td>Adrian Kark, Alexandra Cation; Ann Bonner, Louise Purteil</td>
<td>Studying the implementation of the General Practitioner with Special Interest delivery of services at Caboolture</td>
<td></td>
</tr>
<tr>
<td><strong>Health Services Implementation Group – Kidney Supportive Care Collaborative</strong> &lt;br&gt;Helen Healy</td>
<td>Ann Bonner; Louise Purteil; Ilse Berquier; Julie Kirby; Carla Scuderi</td>
<td>Continuing studies into the efficacy and value-added effect of services tailored to the needs of people with advanced kidney disease at the end of life</td>
<td></td>
</tr>
<tr>
<td><strong>Helen Healy, Andrew Mallett, Carla Scuderi</strong></td>
<td>Christine Staatz, George John, Margaret Jacks, Suzanne Parker, Jason Roberts</td>
<td>Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant recipients</td>
<td></td>
</tr>
<tr>
<td><strong>Helen Healy, Andrew Mallett, Carla Scuderi</strong></td>
<td>Sadia Jahan, Christine Staatz, George John, Margaret Jacks, Suzanne Parker, Jason Roberts</td>
<td>An observational pharmacokinetic study of Bactrim® (trimethoprim-sulfamethoxazole) in renal transplant recipients</td>
<td></td>
</tr>
<tr>
<td><strong>aCQuiRE Collaborative</strong> &lt;br&gt;Helen Healy, Andrew Mallett</td>
<td>Charles Denaro, Wendy Hoy (UQ), Samantha Stark, Vincent Lee (Westmead Hospital) Mark Thomas (Sir Charles Gardner Hospital)</td>
<td>A point prevalence study of Fabry's disease in people managed in specialist nephrology practices</td>
<td></td>
</tr>
<tr>
<td><strong>KidGen Collaborative, Andrew Mallett</strong></td>
<td>Chirag Patel; Amali Mallawaarachichi (Liverpool Hospital), Cathy Quinlan (Melbourne Children's Hospital), Zonita Stark (Murdoch Research), Randall Faull (Royal Adelaide Hospital) Aron Chakera (Newcastle Hospital) Melissa Little</td>
<td>• National Clinic Evaluation &lt;br&gt;• HIDDEN Flagship &lt;br&gt;• Clinical Implementation Science &lt;br&gt;• IKD HSU</td>
<td></td>
</tr>
<tr>
<td><strong>Andrew Mallett</strong></td>
<td>Belinda Elford</td>
<td>An open – label Phase 2 proof-of-concept study in patients with C3 Glomerulopathy (C3G) or Immune-complex Membranoproliferative Glomerulonephritis (IC-MPGN) treated with ACH-0144471</td>
<td></td>
</tr>
<tr>
<td><strong>Andrew Mallett</strong></td>
<td>Belinda Elford</td>
<td>A phase 2/3 trial of the efficacy and safety of bardoxolone methyl in patients with Alport Syndrome</td>
<td></td>
</tr>
<tr>
<td><strong>Dwarakanathan Ranganathan, Drew Yates, Paul Kubler</strong></td>
<td>Saw Yu Mu</td>
<td>Retrospective study of prevalence and type of infection in patients with renal ANCA associated vasculitis and their risk factors</td>
<td></td>
</tr>
<tr>
<td><strong>Sharad Ratanjee</strong></td>
<td>Belinda Elford</td>
<td>A phase 3 randomized, open-label (Sponsor Blind), active controlled, parallel-group, multi centre, event driven study in dialysis subjects with anaemia associated with chronic kidney disease to evaluate the safety and efficacy of daprodustat compared to recombinant human erythropoietin, following a switch from erythropoietin-stimulating agents</td>
<td></td>
</tr>
<tr>
<td><strong>PD Research Group, Lesley Williams, Nicola Williams</strong></td>
<td>Pauline Nicholas, Carla Scuderi, Deborah Smith, Michelle Rice, Martin Wooley, Dwarakanathan Ranganathan</td>
<td>A feasibility study comparing topical use of acetic acid at the exit site versus mupirocin to prevent exit site infections (ESI) in peritoneal dialysis (PD) patients (ACES Study)</td>
<td></td>
</tr>
<tr>
<td><strong>Martin Wolley</strong></td>
<td>Mark Marshall, Carmel Hawley, David Johnson, Matthew Roberts</td>
<td>Twice weekly haemodialysis in Australia and New Zealand</td>
<td></td>
</tr>
</tbody>
</table>
**2018 Collaborative Research Activity involving RBWH Research Group / Department**

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suceena Alexander (Christian Medical College, Vellore, India)</td>
<td>Helen Healy (Kidney Health Service), George John Healy (Kidney Health Service), Andrew Kassianos (Kidney Health Service)</td>
<td>Pathogenic molecular/cellular responses leading to chronic kidney disease in primary Focal and Segmental Glomerulosclerosis (FSGS) in Indians</td>
</tr>
<tr>
<td>Glenda Gobe (UQ)</td>
<td>Helen Healy (Kidney Health Service), Andrew Kassianos (Kidney Health Service)</td>
<td>Treating chronic kidney disease with plant extracts of elephant foot yam</td>
</tr>
<tr>
<td>Nick Graves (QUT)</td>
<td>Helen Healy (Kidney Health Service), Keshwar Baboolal (Kidney Health Service)</td>
<td>Cost utility of human kidney transplantation</td>
</tr>
<tr>
<td>Alberta Hoi (Monash Medical Centre)</td>
<td>Dwarakanathan Ranganathan (Kidney Health Service), Paul Kubler (Rheumatology)</td>
<td>Australian Lupus kidney transplantation</td>
</tr>
<tr>
<td>Wendy Hoy (UQ)</td>
<td>Helen Healy (Kidney Health Service), Carol Douglas (Palliative Care)</td>
<td>NHMRC Chronic Kidney Disease Centre of Research Excellence</td>
</tr>
<tr>
<td>Nicole Isbel</td>
<td>Dwarakanathan Ranganathan Healy (Kidney Health Service), Andrew Mallet Healy (Kidney Health Service), Cameron Curley (Hematology)</td>
<td>An observational, non-interventional, multi-centre, multi-national study of patients with Atypical Haemolytic-Uraemic Syndrome (aHUS Registry)</td>
</tr>
<tr>
<td>David Jayne (Cambridge University)</td>
<td>Dwarakanathan Ranganathan (Kidney Health Service)</td>
<td>A Randomized, Double-Blind, Active-Controlled, Phase 3 Study to Evaluate the Safety and Efficacy of CCX168 (Avacopan) in Patients with Anti-Neutrophil Cytoplasmic Antibody (ANCA) - Associated Vasculitis Treated Concomitantly with Rituximab or Cyclophosphamide/Azathioprine</td>
</tr>
<tr>
<td>David Jayne (Cambridge University)</td>
<td>Dwarakanathan Ranganathan (Kidney Health Service)</td>
<td>An international, open label, randomised controlled trial comparing rituximab with azathioprine as maintenance therapy in relapsing ANCA-associated vasculitis. RITAZAREM</td>
</tr>
<tr>
<td>Melissa Little (Murdoch Children’s Research Institute)</td>
<td>Andrew Mallett (Kidney Health Service), Helen Healy (Kidney Health Service)</td>
<td>Applying functional genomics to kidney disease</td>
</tr>
<tr>
<td>Multi Centre Study</td>
<td>Dwarakanathan Ranganathan (Kidney Health Service), Andrew Mallett (Kidney Health Service)</td>
<td>Treatment of Proteinuria Due to Treatment Resistant or Treatment Intolerant Idiopathic Focal Segment Glomerulosclerosis (PODOCYTE) Study</td>
</tr>
<tr>
<td>Caroline Smith (Uni Western Sydney)</td>
<td>Helen Healy (Kidney Health Service)</td>
<td>Effectiveness of intradialytic yoga for patients with end stage kidney disease</td>
</tr>
<tr>
<td>Michael Stowasser, David Ellison, Robert Fenton, Paul Welling, Eric Delpire</td>
<td>Martin Wolley (Kidney Health Service)</td>
<td>Role of potassium in hypertension</td>
</tr>
<tr>
<td>Santosh Varughese (Christian Medical College, Vellore, India)</td>
<td>Helen Healy (Kidney Health Service), George John (Kidney Health Service), Andrew Kassianos (Kidney Health Service)</td>
<td>Molecular profiling in renal allograft recipients with acute rejection and chronic allograft dysfunction</td>
</tr>
</tbody>
</table>

**2018 Research Awards and Achievements**

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann Bonner, Fiona Coyer, Theresa Green, Ray Chan</td>
<td>QUT Vice Chancellor Award</td>
<td>Renal Society of Australasia, 46th Annual Conference, 21st-23rd June, Adelaide</td>
</tr>
<tr>
<td>Ann Bonner, Louise Purtell, Ilse Berquier, Helen Healy</td>
<td>Best Research paper</td>
<td>Metro North Hospital and Health Service Nursing and Midwifery Leadership Conference, 1-2 March, Brisbane</td>
</tr>
<tr>
<td>Ilse Berquier, Ann Bonner, Louise Purtell, Helen Healy, Bernadette Taylor, Danielle Heffeman, Carol Douglas</td>
<td>Best poster</td>
<td>7th Palliative Care Nursing Association Conference, 20-21 May, Brisbane</td>
</tr>
<tr>
<td>Haunnah Rheault, Fiona Coyer, Ann Bonner</td>
<td>Best paper</td>
<td>PhD studies – to commence 2019</td>
</tr>
<tr>
<td>Kurt Giuliani</td>
<td>University of Queensland Postgraduate Scholarship</td>
<td>PhD studies – to commence 2019</td>
</tr>
<tr>
<td>Becker Law</td>
<td>Queensland Pathology Scholarship</td>
<td>PhD studies – commenced 2015</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>Metro North Clinical Research Fellowship</td>
<td>Commencing 2019</td>
</tr>
<tr>
<td>Arti Raghubbar</td>
<td>University of Queensland Postgraduate Scholarship</td>
<td>PhD studies – to commence 2019</td>
</tr>
</tbody>
</table>
### 2018 Research Awards and Achievements (cont)

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cassandra Rawlings</td>
<td>RBWH Research Postgraduate Scholarship – renewal</td>
<td>PhD studies continuing part-time</td>
</tr>
<tr>
<td>Carla Scuderi</td>
<td>RBWH Research Postgraduate Scholarship – renewal</td>
<td>PhD studies continuing part-time</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha Dinh, Ann Bonner</td>
<td>Endeavour Research Fellowship</td>
<td>Health literacy, knowledge and self-management in comorbid chronic diseases</td>
<td>Endeavour</td>
<td>$24,500</td>
<td>$24,500 (2018)</td>
</tr>
<tr>
<td>Katrina Kildey, Andrew Kassianos, Helen Healy, Jacobus Ungerer, Sandra Klingberg, Brett McWhinney, George John, Ross Francis, Ray Wilkinson</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>Natural killer cell subsets in kidney transplant rejection</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Becker Law, Helen Healy, Andrew Kassianos</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>Functional interactions between lymphocyte subsets and proximal epithelial cells in renal hypoxic injury and chronic kidney disease</td>
<td>Pathology Queensland – Study, Education and Research Committee</td>
<td>$25,000</td>
<td>$75,000 (2015-2018)</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>UQ IMB</td>
<td>HIDDEN Project Pilot Study</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>UQ IMB</td>
<td>Translating Inherited Tubulointerstitial Disease in Australia</td>
<td>RACP Foundation Jacquot</td>
<td>$90,000</td>
<td>$90,000 (2018)</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>KIdGen</td>
<td>The HIDDEN (wHole genome Investigation to iDentify undetected Nephropathies) Project</td>
<td>AGHA Rare Disease Flagship</td>
<td>$240,000</td>
<td>$480,000 (2018-2020)</td>
</tr>
<tr>
<td>Andrew Mallett</td>
<td>KIdGen</td>
<td>Evaluation of clinical genomics and a MDT clinic model in inherited kidney disease</td>
<td>AGHA Rare Disease Flagship</td>
<td>$204,223.50</td>
<td>$408,447 (2016-2018)</td>
</tr>
<tr>
<td>Molly Milazi, Ann Bonner, Clint Douglas</td>
<td>Professorial Nursing Unit Group</td>
<td>A novel bundled intervention (4Ds) to improve adherence with phosphate control in people receiving haemodialysis for end stage kidney disease</td>
<td>Royal Brisbane and Women’s Hospital Research</td>
<td>$18,431.50</td>
<td>$36,863 (2018-2019)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arti Raghubar, Andrew Mallett, Helen Healy, Andrew Kassianos</td>
<td>Conjoint Kidney Research Laboratory</td>
<td>Investigating underlying molecular processes in IgA nephropathy cases using SWATH-MS</td>
<td>Pathology Queensland – Study, Education and Research Committee</td>
<td>$20,000</td>
<td>$20,000 (2018)</td>
</tr>
<tr>
<td>Dwarkanathan Ranganathan, Nigel Mott</td>
<td>Investigator initiated study – project grant</td>
<td>Radcath Study</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$30,000.00</td>
<td>$30,000.00 (2018)</td>
</tr>
<tr>
<td>Dwarkanathan Ranganathan, Sudha Ekambaram, Peter Trnka</td>
<td>International Society of Nephrology</td>
<td>The International Society of Nephrology Sister Centres Program nurtures a partnership between centres from low income countries and organisations from higher income countries to enhance practice of nephrology at the EC</td>
<td>ISN Asia Pacific Society of Nephrology</td>
<td>$US12,000 =A$16,405.35</td>
<td>$24,000 (2018-2019)</td>
</tr>
<tr>
<td>Jason Roberts, Dwarkanathan Ranganathan</td>
<td>Investigator initiated study – project grant</td>
<td>Immunosuppressive Drugs in CRRT</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$40,000.00</td>
<td>$40,000.00 (2018)</td>
</tr>
<tr>
<td>Carla Scuderi, George John, Suzanne Parker, Helen Healy, Christine Staatza, Jason Roberts</td>
<td>Kidney Transplant Research Group</td>
<td>Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant patients</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$39,873</td>
<td>$39,873 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


Journal Articles: (cont):

Book Chapters / Letters:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Ann Bonner. How do we relieve uraemic symptoms. Professional Society for Nephrological Nurses annual conference, 4-5 October, Aarhus, Copenhagen
2. Ann Bonner Calcium phosphate what works. Professional Society for Nephrological Nurses annual conference, 4-5 October, Aarhus, Copenhagen
3. Healy H. Fabry’s in the kidney – the aQuIRE Study. International Conference on Fabry Disease, 2018, August 26, Osaka, Japan
4. Healy H. It’s all about integrated care – the picture of kidney disease in our community. Brisbane Diamantia Health Partners Chronic Theme Disease Forum, 2018, June 15, Brisbane, Australia
5. Healy H. PÚZ2019 Graduate Certificate in Health Service Innovation - Implementation Science: Theory and Practice in Health. 2018 March, Royal Brisbane and Women’s Hospital, Brisbane Australia
7. John G. Continuing Medical Education Session in Renal Transplantation, 2018 May, India
8. Mallett A. CSIRO eHealth Colloquium, 2018, May, Brisbane, Australia
9. Mallett A. ANZSN Basic Course, 2018 April, Auckland, New Zealand
10. Mallett A. AAHMS QLD Clinical Science Symposium, 2018 March, Brisbane, Australia
Invited Speaker: (cont):
11. Ranganathan D. Plasma Exchange in Renal disorder, 2018, Feb, Dr DY Patil Medical College, Pune, India

Oral Presentations:
11. Healy, H., Odewumi, A. CKD. QLD / CRE, Profile of patients in a renal specialty practice in metropolitan Sydney, utilising Audit 4: are they different? Oral presented at: 54th Annual Scientific Meeting Australian and New Zealand Society of Nephrology. 8-12 September 2018; Sydney, Australia
19. Mallet A, Cameron, A., Hoy, W. CKD. QLD / CRE, Chronic Kidney Disease patients with autosomal dominant Polycystic Kidney Disease or other inheritable Kidney disease have distinct Characteristics and higher associated healthcare. Paper presented at: 54th Annual Scientific Meeting Australian and New Zealand Society of Nephrology. 8-12 September 2018; Sydney, Australia
Oral Presentations: (cont):


30. Purtell L, Hiremagalur B, Sowa M, Bublitz L, Bonner A. CKD.QLD / CRE, Predicting Improvement in Health – Related Quality of Life in people receiving dialysis: The leapard Study. Paper presented at: 54th Annual Scientific Meeting Australian and New Zealand Society of Nephrology. 8-12 September 2018; Sydney, Australia


33. Sowa PM, Zhang J, Cameron A, Healy HG, Hoy WE, Connelly LB. Chronic Kidney Disease: who are the high cost users of hospital care? In: Nephrology 2018;23(3):51. Paper presented at: 54th Annual Scientific Meeting Australian and New Zealand Society of Nephrology. 8-12 September 2018; Sydney, Australia


Poster Presentations:


3. Dinh TTH, Bonner A, Ramsbotham J, Clark RA Jones L. Validation of the Dutch heart failure scale: Results from factor analyses. Poster presented at the Australian Cardiovascular Nursing Conference, 9-10 March 2018, Sydney Australia


Poster Presentations (cont):


19. Williams N. An efficacy and feasibility study comparing topical use of acetic acid at the exit site versus mupirocin to prevent exit site infection in PD patients (ACES Study. Poster presented at Home Therapies Conference, 2018, New Zealand.


Other Communications and Outputs:

1. Healy H, Baboolal K. Metro North Kidney Health Service Discrete Event Simulation Modelling, 2018, RBWH


Academic Appointments 2018

1. Assoc Prof Helen Healy – Associate Professor, University of Queensland, Faculty of Medicine

2. Assoc Prof Andrew Mallett – Associate Professor, University of Queensland Faculty of Medicine

3. Assoc Prof Andrew Mallett – Inaugural Clinical Fellow, UQ Institute for Molecular Bioscience

4. Assoc Prof Andrew Mallett – Honorary Fellow Manager Murdoch Children’s Research Institute

5. Assoc Prof Andrew Mallett – Visiting Fellow, University of Cambridge School of Medicine, Addenbrooke’s Hospital (CUH NHS Trust) and Cambridge Institute for Medical Research

6. Ms Carla Scuder – Course Coordinator University of Qld Clinical Pharmacy Post graduate program

7. Assoc Prof Dwarkanathan Ranganathan – School of Medicine, Griffith University

8. Dr Martin Wolley – Senior Lecturer, University of Queensland, Faculty of Medicine.
Conference Abstract, Peer Review Panels and Meetings:

1. **Prof Ann Bonner** – Reviewer GRANTS – NHMRC, NMRC (Singapore), IHBI
2. **Prof Ann Bonner** – Assoc Editor – Renal Society of Australasia journal; Editorial Board – Journal of Renal Care
4. **Prof Ann Bonner** – Reviewer MEETING ABSTRACTS – Renal Society of Australasia, Transplant Society, Australian College of Nursing
5. **Assoc Prof Helen Healy** – Sub Editor – Frontiers in Physiology – Renal and Epithelial Physiology, Case Reports in Nephrology
6. **Assoc Prof Helen Healy** – Reviewer MANUSCRIPTS – Internal Medicine
7. **Assoc Prof Helen Healy** – Reviewer GRANTS – NHMRC, RBWH & Foundation Research Council scholarships and project grants
8. **Assoc Prof Helen Healy** – Reviewer MEETING ABSTRACTS – Australian and New Zealand Society of Nephrology Annual Scientific Meeting
9. **Assoc Prof Helen Healy** – Reviewer OTHER – MN Research Excellence Awards
10. **Dr Helen Healy** – Royal Brisbane and Women’s Hospital Annual Healthcare Symposium
11. **Ms Carla Scuderi** – Society of Hospital Pharmacists MM2018.

Kidney Health Service International Visiting Academics:

<table>
<thead>
<tr>
<th>Visiting Academic</th>
<th>Hosted By</th>
<th>Event</th>
<th>Visiting Academic’s Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Adeera Leevin</td>
<td>Healy H. Kidney Health Service Baboolal K. Statewide Renal Network</td>
<td>Site Visit and Presentation to Kidney Health Service Heads of Departments</td>
<td>Executive Director of the British Columbia Renal Agency, Director Division of Nephrology, St Paul’s Hospital, Vancouver, Canada</td>
</tr>
<tr>
<td>Professor Christian Kurts</td>
<td>Healy H. Kassianos A. Conjoint Kidney Research Laboratory, Chemical Pathology, Queensland Pathology</td>
<td>QIMR Immunology and Infectious Disease Seminar</td>
<td>Director and Group Leader, Institute of Experimental Immunology, Bonn, Germany</td>
</tr>
<tr>
<td>Professor Fliss Murtagh</td>
<td>Healy H. Kidney Health Service, Berquier I. Kidney Supportive Care, Bonner A. Professorial Nursing Unit</td>
<td>Key Note Speaker: Kidney Supportive Care Symposium</td>
<td>Professor in Palliative Care Hull York Medical School, Associate Director Wolfson Centre for Palliative Care Research University of Hull, Visiting Professor of Palliative Care King’s College London</td>
</tr>
<tr>
<td>Professor Futoshi Iwata</td>
<td>Healy H. Kidney Health Service, Berquier I. Kidney Supportive Care</td>
<td>Kidney Supportive Care Think Tank</td>
<td>Professor of Law, Sophia University Tokyo Japan</td>
</tr>
<tr>
<td>Professor Agnes Fogo</td>
<td>Healy H, Kidney Health Service</td>
<td>Invited Lecturer, Royal Brisbane Hospital Medical Ground Rounds</td>
<td>John L Shapiro Professor of Pathology, Director Renal Pathology/EM Laboratory Vanderbilt University Medical Centre Nashville USA</td>
</tr>
</tbody>
</table>

International Sister Sites:
International Society of Nephrology Level B sponsorship - Dr Sudha Ekambaram (EC), Mehta Multispecialty Hospital, Chennai, India and Dwarakanathan Ranganathan (SC), Dr Peter Trnka(SC) - US$ 12000 pa for years 2018 and 2019.
Neurology – Epilepsy

The RBWH Epilepsy group has been active in several areas of research in 2017. This includes epilepsy in pregnancy, genetic studies and functional MRI. Our research has included studies of humans and animal models of epilepsy, and promising new treatments including intravenous immunoglobulin and cannabidiol gel.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Javier Urriola</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Ruben Pellicer-Guridi</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Jiasheng Su</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Surabhi Sood</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Sharhzad Bagheri</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Peter Caradonna</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Shaeez Abdulla</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Zahid Kausar</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
<tr>
<td>Zheng Qiao</td>
<td>PhD</td>
<td></td>
<td>David Reutens</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kimberley Irwin</td>
<td>Research Trial Coordinator</td>
<td>Clinical Trials</td>
<td>UQ</td>
</tr>
<tr>
<td>Leanne Rigby</td>
<td>Research Officer</td>
<td>Clinical Trials</td>
<td>UQ</td>
</tr>
<tr>
<td>Yvonne Gautam</td>
<td>Research Officer</td>
<td>Drug Registry</td>
<td>UQ</td>
</tr>
<tr>
<td>Maryam Ziaei</td>
<td>Post-doctoral Fellow</td>
<td>Neuroimaging</td>
<td>UQ</td>
</tr>
<tr>
<td>Min Chen</td>
<td>Post-doctoral Fellow</td>
<td>Neuroimaging</td>
<td>UQ</td>
</tr>
<tr>
<td>Stephen Walsh</td>
<td>Epilepsy Fellow</td>
<td>Epilepsy</td>
<td>Qld Health</td>
</tr>
<tr>
<td>Michael Vogel</td>
<td>Post-doctoral Fellow</td>
<td>Neuroimaging</td>
<td>UQ</td>
</tr>
<tr>
<td>Reuben Pellicer</td>
<td>Post-doctoral Fellow</td>
<td>Neuroimaging</td>
<td>UQ</td>
</tr>
<tr>
<td>Jaixin Du</td>
<td>Post-doctoral Fellow</td>
<td>Neuroimaging</td>
<td>UQ</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Lata Vadlamudi</td>
<td>Jeffrey Craig</td>
<td>Combining genetic and epigenetic analyses to generate biomarkers for epilepsy in twins and singletons</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof T O’Brien (Melbourne Health)</td>
<td>Professor David Reutens</td>
<td>A Phase 2A, Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Multiple-Dose Study to Assess the Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures Synthetic Transdermal Cannabidiol for the Treatment of Epilepsy (STAR 1)</td>
</tr>
<tr>
<td>Prof T O’Brien (Melbourne Health)</td>
<td>Professor David Reutens</td>
<td>Open Label Extension Study to ZYN2-CL-03 to Assess the Long-Term Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures (STAR 2)</td>
</tr>
<tr>
<td>Dr. Eva Pietras (SK Life Sciences)</td>
<td>Professor David Reutens</td>
<td>An Open Label, Multicenter, Safety and Pharmacokinetic Study of YKP3089 as Adjunctive Therapy in Subjects with Partial Onset Seizures</td>
</tr>
<tr>
<td>Prof T O’Brien (Melbourne Health)</td>
<td>Professor David Reutens</td>
<td>A double-blind, randomized, placebo-controlled study to investigate the efficacy and safety of cannabidiol (GWP42003-P, CBD) as add-on therapy in patients with tuberous sclerosis complex who experience inadequately-controlled seizures</td>
</tr>
<tr>
<td>Prof T O’Brien (Melbourne Health)</td>
<td>Professor David Reutens</td>
<td>A Multicenter, Double-Blind, Randomized, Placebo-Controlled Trial with an Open-Label Extension Phase of Perampanel as Adjunctive Treatment in Subjects at Least 2 years of Age With Inadequately Controlled Seizures Associated With Lennox-Gastaut Syndrome</td>
</tr>
<tr>
<td>Prof. David Reutens</td>
<td>Professor David Reutens</td>
<td>Observational phase IV Clinical Registry of the use of perampanel (Fycompa) for the treatment of focal and generalised epilepsy</td>
</tr>
<tr>
<td>Prof. T O’Brien</td>
<td>Professor David Reutens</td>
<td>A randomised double-blind placebo controlled dose finding study to evaluate the efficacy and safety of padsevonil as adjunctive treatment of focal onset seizures in adult subjects with drug resistant epilepsy. Phase II</td>
</tr>
<tr>
<td>Prof. David Reutens</td>
<td>Professor David Reutens</td>
<td>Feasibility study of a wearable drowsiness detector in epilepsy</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V Vegh, DC Reutens, M Gray, C Riney, S Malone</td>
<td>NHMRC Project Grant. APP1104933</td>
<td>Novel MRI approaches to map focal cortical dysplasia in focal epilepsy</td>
<td>NHMRC</td>
<td>$465,489 (2016-2018)</td>
<td></td>
</tr>
<tr>
<td>David Reutens</td>
<td>Neurology/Epilepsy</td>
<td>Training Centre of Innovation in Biomedical Imaging Technology IC170100035</td>
<td>ARC Industrial Transformation</td>
<td>$948,742</td>
<td>$4,743,710 (2017-2021)</td>
</tr>
<tr>
<td>David Reutens</td>
<td>Neurology/Epilepsy</td>
<td>“Targeting Complement in post-traumatic epileptogenesis”</td>
<td>US Department of Defence Congressionally Directed Medical Research Programs. EP160027</td>
<td>$687,170</td>
<td>USD $545,005.46</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


8. Yu Q, Reutens D, Vegh V. Can anomalous diffusion models in magnetic resonance imaging be used to characterise white matter tissue microstructure? *Neuroimage* 2018; 175:122-137


15. Venkatachalam TK, Berhardt PV, Pierens GK, Reutens DC. NMR, X-ray crystal structure studies and mechanism for formation of a novel di-gallium complex and 5-methoxy-4,5,6-triphenyl-4,5-dihydro-1,2,4-triazene-3(2H)-thione. *J Chem Crystallogr* (In Press; Accepted 23/10/18)


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 currently three are in progress. The research coordinators ae involved in the setup and running of these ongoing studies.

MND participants are recruited via bi monthly MND clinics or via referral from external Neurologists. A regular MND Research clinic is conducted weekly 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. A national MND database system known as SALSA has been implanted over the last two years and all new and existing patients participating in research are entered onto the new database. There are 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amelia Hobson</td>
<td>Doctorate of Clinical Psychology &amp; Clinical Neuropsychology</td>
<td>UQ</td>
<td>Internally-generated responses and the role of apathy and depression in Motor Neurone Disease</td>
<td>Gail Robinson</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gaurav Singh</td>
<td>Research Fellow</td>
<td>Clinical Research</td>
<td>Fellow Royal Australian College of Physicians (2018-)</td>
</tr>
<tr>
<td>Frederick Steyn</td>
<td>Honorary Research Fellow</td>
<td>Clinical Research</td>
<td>University of Queensland (2008-)</td>
</tr>
<tr>
<td>Amelia Ceslis</td>
<td>Visiting Researcher</td>
<td>UQ Psychology</td>
<td>University of Queensland (2016-)</td>
</tr>
<tr>
<td>Gail Robinson</td>
<td>Visiting Researcher</td>
<td>UQ Psychology</td>
<td>University of Queensland (2010-)</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
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<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
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<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Neurone Disease Research Clinic, Neurology Department</td>
<td>Amelia Ceslis, Rosemary Argall, Gail Robinson, Robert Henderson, Pamela McCombe, Susan Heggie, Kate Thorpe</td>
<td>Assessment of cognition and behaviour in Motor Neurone Disease in a clinical setting and the impact of education sessions on care giver well-being</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frederick Steyn</td>
<td>Pam McCombe (Neurology) Robert Henderson (Neurology)</td>
<td>Endocrine and Appetite Targets and Therapies for Motor Neuron Disease; a prospective observational Study</td>
</tr>
<tr>
<td>Frederick Steyn</td>
<td>Robert Henderson (Neurology)</td>
<td>Use of Point of Care (PoC) testing to improve respiratory management and monitoring of disease progression in ALS: a Pilot Study</td>
</tr>
<tr>
<td>Gail Robinson, Naomi Wray, Anjali Henders, Sharon Abrahams, Ammar Al-Chalabi</td>
<td>Robert Henderson, Pamela McCombe</td>
<td>Longitudinal assessment of behaviour and cognition in ALS through brief Online Carer’s behavioural Questionnaire (OCQ)</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
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<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gail Robinson, Naomi Wray, Anjali Henders, Sharon Abrahams, Robert Henderson, Pamela McCombe, Ammar Al-Chalabi</td>
<td>Motor Neurone Disease Research Clinic, Neurology Department</td>
<td>Longitudinal assessment of behaviour and cognition in ALS through brief Online Carer’s behavioural Questionnaire (OCQ)</td>
<td>MNDRIA</td>
<td>$107,000</td>
<td>2018-2019</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:


Poster Presentations:

Neurology – Stroke

The RBWH Stroke group continues to play a leading role in Queensland stroke research at all levels of the stroke journey, both leading and facilitating research of many types within the Stroke Unit.

In the prehospital phase we are working on device-assisted diagnosis of stroke. In the emergency phase we continue to refine diagnostic evaluation and treatment approaches in collaboration with the Department of Medical Imaging. Our multicentre secondary prevention studies included anticoagulant and antiplatelet research and medications to enhance stroke recovery.

Our Nurse Practitioner has also started research into novel models of care for previously-employed stroke patients discharged directly from hospital (i.e. without being transferred for inpatient rehabilitation). We continue to collaborate with and facilitate research by other staff from QUT and UQ who are investigating various aspects of the acute stroke journey with our patients.

We thank the RBWH Foundation for their ongoing support of our research program, the pinnacle of which is their organisation and support for the annual Master Stroke Business Luncheon.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne Loudon</td>
<td>PhD</td>
<td>An investigation of the pre-hospital diagnosis and triage of ischemic hyper-acute stroke to recommended reperfusion therapies</td>
<td>Vivienne Tippett, Andrew Wong, Emma Bosley, Michele Clarke</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
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<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Andrew Wong</td>
<td>Prof Vivienne Tippett, Dr Simon Finnigan, Wayne Loudon</td>
<td>Stroke Prehospital Informed Decision-making using EEG Recordings (SPIDER)</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chris Bladin (The Florey Institute of Neuroscience and Mental Health)</td>
<td>Claire Muller, Andrew Wong</td>
<td>A multicentre, randomised controlled trial of exenatide versus standard care in acute ischaemic stroke</td>
</tr>
<tr>
<td>Andrew Lee (Flinders Medical Centre)</td>
<td>Andrew Wong, Michael Roland</td>
<td>An MRI registry of clinical and radiological outcomes following initiation of anticoagulation after ischaemic stroke or transient ischaemic attack in patients with atrial fibrillation</td>
</tr>
<tr>
<td>Geoffrey Donnan (The Florey Institute of Neuroscience and Mental Health), Stephen Davis (Royal Melbourne Hospital)</td>
<td>Andrew Wong, Claire Muller</td>
<td>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</td>
</tr>
<tr>
<td>Mark Parsons (John Hunter Hospital)</td>
<td>Andrew Wong, Claire Muller</td>
<td>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</td>
</tr>
<tr>
<td>Bruce Campbell (Royal Melbourne Hospital), Peter Mitchell (Royal Melbourne Hospital)</td>
<td>Andrew Wong, Claire Muller</td>
<td>A randomized controlled trial of tenecteplase versus alteplase before intra-arterial reperfusion therapy within 4.5 hours of stroke onset</td>
</tr>
<tr>
<td>C. de Bodinat (France)</td>
<td>Andrew Wong, Claire Muller</td>
<td>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</td>
</tr>
<tr>
<td>Todd Verdoorn (USA), Bruce Campbell (Royal Melbourne Hospital)</td>
<td>Andrew Wong, Claire Muller</td>
<td>A randomized, double-blind, placebo-controlled phase II multi-center evaluation to assess the safety and tolerability of DM199 administered intravenously and subcutaneously in subjects with acute ischemic stroke</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
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<th>Amount in 2018</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dr Claire Muller</td>
<td>Neurology/Stroke</td>
<td>TEXAIS: Treatment with exenatide in acute ischemic stroke trial protocol: a prospective, randomized, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycaemia (Imaging sub-study)</td>
<td>Herston Imaging Research Facility</td>
<td>Provision of scanner access, until 30th June 2019</td>
<td>Provision of scanner access, until 30th June 2019</td>
</tr>
</tbody>
</table>

2018 Research Publications

**Journal Articles:**

1. **Muller, Claire; Cheung, N Wah; Dewey, Helen; Churilov, Leonid; Middleton, Sandy; Thijs, Vincent; Ekinci, Elif I; Levi, Chris; Lindley, Richard; Donnan, Geoffrey; Parsons, Mark; Bladin, Chris.** Treatment with exenatide in acute ischemic stroke trial protocol: a prospective, randomized, open label, blinded end-point study of exenatide vs. standard care in post stroke hyperglycaemia. *Int J Stroke* (2018) 13(8): 857-862


3. **Fanning, Jonathon P; Wesley, Allan J; Walters, Darren L; Wong, Andrew A; Barnett, Adrian G; Strugnell, Wendy E; Platts, David G; Fraser, John F.** Topographical distribution of perioperative cerebral infarction associated with transcatheter aortic valve implantation. *Am Heart Journal* (2018) 197: 113-123

4. **Campbell, Bruce CV; Mitchell, Peter J; Churilov, Leonid; Yassi, Nwaf; Kleining, Timothy J; Dowling, Richard J; Yan, Bernard; Bush, Steven J; Dewey, Helen M; Thijs, Vincent; Wong, Andrew A; Muller, Claire T et al.** Tenecteplase versus alteplase before thrombectomy for ischemic stroke. *NEJM* (2018) 378(17): 1573-82

5. **Cornwell, Petrea; Gustafsson, Louise; Hodson, Tenelle; Kuys, Suzanne; Wong, Andrew; Thompson, Leah;** Longitudinal investigation of fatigue following mild stroke: impact on community integration. (2018) 13:12

2018 Conference Presentations – Invited Speaker, Oral and Poster

**Invited Speaker:**

1. Muller, C. Updates in Cerebral Amyloid Angiopathy. National Stroke Unit Heads Meeting, 2018

2. Muller, C. Debate: All DOACs are Essentially Different. Stroke Society of Australasia ASM, 2018


5. Muller, C. MRI Interpretation. Multiple Sclerosis Nurses Australia Inc Conference 2018

6. Wong, A. When to start.restart anticoagulation after stroke/TIA/ICH, Bayer Cardiovascular Alliance 4th Annual Meeting


9. Wong, A. PFO: close or not close it, 1st Australia-Vietnam Joint Stroke Congress, Ho Chi Minh City, Vietnam

10. Wong, A. Secondary Prevention after Stroke: the importance of lipid control, 1st Australia-Vietnam Joint Stroke Congress, Ho Chi Minh City, Vietnam

11. Wong, A. Local Thrombolysis for Intraventricular Hemorrhage (IVH) & Intracranial Hemorrhage (ICH) - Is there a Role? 1st Australia-Vietnam Joint Stroke Congress, Ho Chi Minh City, Vietnam


15. Wong, A. Concept of the ischaemic penumbra. Asia Pacific Stroke Conference, Jakarta, Indonesia.

16. Wong, A. Stroke – from acute onset to long-term management. Bayer GP Masterclass, Brisbane

17. Wong, A. Difficult Thrombolysis Cases, Australasian Stroke Academy Seminar, Sydney

Nuclear Medicine and 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 Q-TRaCE, a TGA accredited radiopharmaceutical laboratory operating a cyclotron. It offers research facilities to a wide variety of investigators. In addition to conventional tracers such as fluorodeoxyglucose ($^{18}$FDG), the Service also conducts research using $^{18}$FDOPA, $^{18}$FMISO, $^{18}$PSMA1007, $^{18}$FGE180 and $^{68}$Ga-DOTATATE, $^{68}$Ga-PSMA and $^{68}$Ga-Pentixafor. There is also ongoing research interest in image reconstruction algorithms, respiratory gating and image analysis techniques.

The department also provides a radionuclide therapy service for patients with inoperable neuroendocrine tumours and recently commenced treatment for prostate cancer through the TheraP trial. Whilst predominantly focussed upon clinical service delivery, retrospective analysis of patients previously treated in our statewide NET service aims to more effectively tailor our treatment to patients most likely to benefit and minimise the risk of side effects.

Steven Goodman, Shaun Patford, Jye Smith and David Pattison received a QuARRIES Award for their Novel Efficient Radionuclide Therapy Risk Assessment project.

David Pattison was a Co-Investigator on successful $1.8$ million Medical Research Future Fund (MRFF) grant for the Targeted THerapy and Avelumab in Merkel Cell Carcinoma (GoTHAM) Trial.

Supervised Post-Graduate Research Students

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<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dominique Scott</td>
<td>MPhil UQ (PT 2017-)</td>
<td>New radiopharmaceutical methodology for PET imaging</td>
<td>Melissa Latter, Kristofer Thurecht</td>
</tr>
<tr>
<td>Brenda Tai</td>
<td>MPhil UQ (PT 2018-)</td>
<td>PET radiopharmaceuticals as molecular imaging tools for improved clinical outcome</td>
<td>Melissa Latter, Kristofer Thurecht</td>
</tr>
<tr>
<td>Rahul Ladwa</td>
<td>MPhil UQ (PT 2017-)</td>
<td>Predictors of dosimetry and response to peptide receptor radionuclide therapy in metastatic neuroendocrine tumour</td>
<td>David Wyld, David Pattison, Stephen Rose</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jye Smith</td>
<td>Adjunct lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2009-current)</td>
</tr>
<tr>
<td>Dr Marissa Bartlett</td>
<td>Adjunct lecturer</td>
<td>Faculty of Medicine</td>
<td>UQ (2010-current)</td>
</tr>
<tr>
<td>Dr Melissa Latter</td>
<td>Honorary Research Fellow</td>
<td>Faculty of Medicine</td>
<td>UQ (2014-current)</td>
</tr>
<tr>
<td>A/Prof David Pattison</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>UQ (2018-current)</td>
</tr>
<tr>
<td>A/Prof Paul Thomas</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>UQ (2014-current)</td>
</tr>
<tr>
<td>A/Prof Stuart Ramsay</td>
<td>Associate Professor</td>
<td>Medicine</td>
<td>JCU (2013-current)</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Pattison</td>
<td>Paul Thomas, Stuart Ramsay, Brook Gulhane, Maciej Debowski</td>
<td>$^{18}$F-PSMA-1007 vs $^{68}$Ga-PSMA-11 trial</td>
</tr>
<tr>
<td>Manoj Bhatt</td>
<td>David Pattison, David Wyld, Kevin Lee, Matthew Burge</td>
<td>Ga-DOTATATE PET/MRI</td>
</tr>
<tr>
<td>Jye Smith</td>
<td>Matthew Griffiths, Paul Thomas</td>
<td>PSMA Salivary Gland Vasoconstriction</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rahul Ladwa</td>
<td>David Pattison, David Wyld, Matthew Burge, Nicholas Dowson, Stephen Rose, Jye Smith, Stephen Goodman, Steven Williams</td>
<td>Predictors of dosimetry and response to peptide receptor radionuclide therapy</td>
</tr>
<tr>
<td>Ashleigh Scott</td>
<td>Glen Kennedy, Siok Tey, David Pattison, Paul Thomas</td>
<td>Pilot study of 18F-FGFE-180-PET to assess acute gastrointestinal graft versus host disease</td>
</tr>
<tr>
<td>Jeffrey Goh, David Pattison</td>
<td>Stuart Ramsay, Kevin Lee, Paul Thomas, Patrina Campbell, Melissa Latter,</td>
<td>TherapT trial. LuPSMA study (RBWH pilot study and ANZUP trial)</td>
</tr>
<tr>
<td>David Wyld</td>
<td>David Pattison, Kevin Lee, Manoj Bhatt, Stuart Ramsay</td>
<td>CONTROLNETS</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brittany Robinson</td>
<td>Curium Award</td>
<td>World Federation of Nuclear Medicine and Biology, 2018</td>
</tr>
<tr>
<td>Steven Goodman</td>
<td>Finalist – Physics Prize</td>
<td>World Federation of Nuclear Medicine and Biology, 2018</td>
</tr>
<tr>
<td>Steven Goodman, Shaun Patford, Rahul Ladwa, Jye Smith, David Wyld, David Pattison</td>
<td>Service Line Award – Novel Efficient Radionuclide Therapy Risk Assessment</td>
<td>QuARRIES Award 2018</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups / Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandhu S, Scolyer R, Atkinson V, Poulsen M, Emmett L, Tohill R, Neeson P, Pattison DA, Guminiski A</td>
<td>Dept of Nuclear Medicine and Specialised PET Services</td>
<td>TarGeted THERapy and Avelumab in Merkel Cell Carcinoma (GoTHAM) Trial</td>
<td>MRFF</td>
<td>$360,000</td>
<td>$1,800,000 (2018-2022)</td>
</tr>
<tr>
<td>PI Poyr D AI2 Thomas P</td>
<td></td>
<td>&quot;A Prospective Pilot Study of a Novel PET/MRI Evaluation of Regional Liver Function to Guide Surgery and Stereoelectic Radiation Therapy for Hepatocellular Carcinoma&quot;</td>
<td>FDGal PET quantitation liver grant</td>
<td>Princess Alexandra Hospital Foundation</td>
<td>$100,000</td>
</tr>
</tbody>
</table>

2018 Research Publications

<table>
<thead>
<tr>
<th>Journal Articles:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Tang V, Campbell P, Pattison DA. Lymphangitic carcinomatosis from prostate cancer identified with Gallium-68 Prostate-Specific Membrane Antigen positron emission tomography imaging. Urology 2018; 114: e1-e2</td>
</tr>
<tr>
<td>9. Donato P*, Roberts MJ2, Morton A2, Kyle S2, Coughlin G* &amp; Esler R* &amp; Dunglison N &amp;. Gardiner RA1,4,5 &amp; Yaxley J1,2. Improved specificity with 68Ga-PSMA PET/CT to detect clinically significant lesions &quot;invisible&quot; on multiparametric MRI of the prostate: a single institution comparative analysis with radical prostatectomy histology. European Journal of Nuclear Medicine and Molecular Imaging. Published online: 19 September 2018.</td>
</tr>
</tbody>
</table>

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Book Chapters / Letters:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Pattison DA. FDOPA imaging in hypoglycaemia of infancy; World Federation of Nuclear Medicine and Biology Congress (Melbourne) 2018
2. Pattison DA. Current controversies in Thyroid Cancer Management; World Federation of Nuclear Medicine and Biology Congress (Melbourne) 2018
3. Pattison DA. The complexities of treating metastatic Differentiated Thyroid Cancer; World Federation of Nuclear Medicine and Biology Congress (Melbourne) 2018
4. Latter MJ. Experiences from a Clinical Radiopharmaceutical Laboratory; 9th International Nanomedicine Conference (Sydney) 2018
5. Pattison DA. Molecular Imaging and Radionuclide Therapy for Advanced Thyroid Cancer. Australia & New Zealand Head and Neck Cancer Society Meeting (Melbourne), July 2018
6. Pattison DA. Molecular Imaging and Radionuclide Therapy for Neuroendocrine Tumours. Royal Australasian College of Physicians Endocrine Registrar Lecture Series (Brisbane), August 2018
7. Pattison DA. LuPSMA and Theranostics for mCRPC. Brisbane Cancer Conference (Brisbane), November 2018
8. Pattison DA. Iodine PET scans. Australia & New Zealand Endocrine Surgeons Association 7th Postgraduate Course in Endocrine Surgery (Gold Coast), November 2018

Oral Presentations:
1. Robinson B, Pattison DA, Lee K. 18F-FDG PET/CT Cardiac Sarcoid Imaging; monitoring ketone levels to avoid inadequate suppression of physiologic myocardial uptake (Oral). World Federation of Nuclear Medicine and Biology Congress 2018
2. Lindsay K, Ramsay S. Quantitative eSPECT/CT: Redefining the Diagnosis of Transthyretin Cardiac Amyloidosis. World Federation of Nuclear Medicine and Biology Congress 2018.

Poster Presentations:

Other Communications and Outputs:
Latter MJ. To establish a premier training and manufacturing site in translation radiopharmaceutical science; 2018 CAHRLI (Collaborative for Allied Health, Research, Learning and Innovation) Symposium (20th June 2018)
Pearson T. eHealth Qld to run proof of concept for universal health translator solution. Pulse IT Magazine.
Palliative and Supportive Care

The RBWH Palliative and Supportive Care Service has continued to support research in the award-winning MN Kidney Supportive Care Program as evidenced by multiple collaborative projects. Preliminary results from the Hepatic Supportive Care Program have been well received when presented at two national conferences in 2018.

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacy/ Palliative Care/ Oncology</td>
<td>Mika Varitimos Neil Cottrell, Alison Kearney, Melissa Eastgate, Catherine Bettington</td>
<td>Ref No: HREC/18/QRBW/180: investigating patient perceptions towards medicine burden in palliative oncology patients</td>
</tr>
<tr>
<td>Pharmacy/ Palliative Care</td>
<td>Kathryn Hurree, Karen Whitfield, Elise Button, Alison Kearney, Glen Kennedy</td>
<td>Educating patients their way</td>
</tr>
<tr>
<td>Janet Hardy</td>
<td>Alison Kearney</td>
<td>Oral Medicinal Cannabinoids to Relieve Symptom Burden in the Palliative Care of patients with Advance Cancer: double-blind, placebo controlled, RCT of efficacy and safety</td>
</tr>
<tr>
<td>Dr Carol Douglas</td>
<td>Sarah Northfield</td>
<td>The Care of the Dying Evaluation (CODE) Project: a survey of bereaved persons in an Australian acute care setting</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Currow, Palliative Care Clinical Studies Collaborative</td>
<td>Alison Kearney, Carol Douglas</td>
<td>Rapid Pharmacovigilance in Palliative Care</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas C</td>
<td>Palliative and Supportive Care</td>
<td>QH Care at the End of Life project – ‘Giving ‘VOICE’ to the bereaved-the evaluation of ‘CODE’ in an Australian acute care setting’</td>
<td>Care at the End of Life SEED grant</td>
<td>$63,990</td>
<td>$63,990 (2018-2019)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


2. Alison Mudge, Carol Douglas, Xanthe Sansome, Michael Tresillin, Stephen Murray, Simon Finnigan, Cheryl Ruth Blaber, Risk of 12-month mortality among hospital inpatients using the surprise question and SPICIT criteria: a prospective study BMJ Supportive & Palliative Care Mar 2018, DOI: 10.1136/bmjspcare-2017-001441


Book Publication:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Douglas C Indian Association Palliative Care 2018, Delhi India. Proffered Paper “Point Prevalence of Patients at End of Life in an Australian Acute Hospital”

Oral Presentations:

Other Communications and Outputs:

Published Abstracts:
Pharmacy

Practice based, translational research is now a core component of the outputs of the pharmacy department and 2018 has been a year of an expanding array of research being undertaken by RBWH pharmacy staff either as part of larger research teams as a higher degree research (HDR) students or supervisors of HDR, or post doctorate research fellows in addition to the substantial research outputs of Professor Jason Roberts’ Antibiotic program.

Sixty journal articles, eight oral and 37 poster presentations were associated with 10 HDR pharmacy staff undertaking HDRs and 28 other medical, pharmacy and nursing HDR students supervised by and collaborating with RBWH senior researchers.

The range of research includes the evaluation of electronic medicine management systems, novel areas of new clinical pharmacy practice such as palliative care and emergency department services and drug therapy optimisation such Prof Jason Roberts’ NHMRC funded program “Optimising antibiotic dosing to improve patient outcomes and suppress emergence of resistant superbugs.” A range of research projects are being led by RBWH researchers and HDR students supervised in collaborating sites especially pharmacy departments across Queensland health.

Pharmacy staff presented or their collaborators presented work Nationally and internationally at pharmacy, nursing, medical and multi-professional meetings.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenna Turkington</td>
<td>Masters, UQ (2017-)</td>
<td></td>
<td>Pharmacists engagement with feedback</td>
<td>Christy Noble, Elizabeth Molloy, Ian Coombes</td>
</tr>
<tr>
<td>William Franks</td>
<td>Mphil, UQ (2017-)</td>
<td></td>
<td>Pharmacokinetics of antifungals and antivirals in lung transplant recipients</td>
<td>Jason Roberts, Osmino Cotta, Mohd Abdul Aziz, Peter Hopkins</td>
</tr>
<tr>
<td>Angela North</td>
<td>MPhil (2015-2018)</td>
<td></td>
<td>Investigation of Therapeutic Heparin in the peri partum period</td>
<td>Karen Whitfield</td>
</tr>
<tr>
<td>Paul Firman</td>
<td>MPhil (2016-2018)</td>
<td></td>
<td>Pharmacist Led Therapeutic Drug Monitoring</td>
<td>Karen Whitfield</td>
</tr>
<tr>
<td>Kathryn Hurree</td>
<td>MPhil (2017-2019)</td>
<td></td>
<td>Investigation of Impact of a pharmacist in palliative Care Clinics</td>
<td>Karen Whitfield</td>
</tr>
<tr>
<td>Brooke Myers</td>
<td>PhD UQ (2014-)</td>
<td></td>
<td>Evaluation of impact of pharmacists on medical post take ward rounds</td>
<td>Ian Coombes, Peter Donovan, Jenny Whitty, Charles Mitchell</td>
</tr>
<tr>
<td>Caitlin Locke</td>
<td>MPhil QUT (2017-)</td>
<td></td>
<td>Evaluation of Department of Emergency Pharmacy Service</td>
<td>Greg Merlo, Neil Cottrell, Louise Cullen, Ian Coombes</td>
</tr>
<tr>
<td>Dr Alexis Tabah</td>
<td>PhD UQ (2018-)</td>
<td></td>
<td>Role of antibiotic de-escalation in critical care</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Dr Szazlyna Lim</td>
<td>PhD UQ (2018-)</td>
<td></td>
<td>Optimised treatment for multidrug resistant Acinetobacter baumannii</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Kamrul Islam</td>
<td>PhD UQ (2018-)</td>
<td></td>
<td>Optimised treatment for multidrug resistant E. coli and Klebsiella pneumoniae</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Eko Setiawan</td>
<td>PhD UQ (2017-)</td>
<td></td>
<td>Developing antimicrobial stewardship in a resource poor hospital environment</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Helmi Sulaiman</td>
<td>PhD The University of Malaya (2017-)</td>
<td></td>
<td>Optimised treatment for ventilator associated pneumonia</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Chris Anstey</td>
<td>PhD UQ (2017-)</td>
<td></td>
<td>Characterising citrate disposition in continuous renal replacement therapy</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Andrew Burke</td>
<td>PhD UQ (2017-)</td>
<td></td>
<td>Optimised treatment for multidrug resistant non-tuberculous mycobacterial infections</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Paul Williams</td>
<td>PhD UQ (2017-)</td>
<td></td>
<td>Optimised antibiotic dosing in ICU: the role of dosing nomograms</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Chandra Sumi</td>
<td>PhD UQ (2017-)</td>
<td></td>
<td>Characterising the microbiological effects of beta-lactams administered by bolus versus continuous infusion</td>
<td>Jason Roberts</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.) University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vesa Cheng</td>
<td>PhD UQ (2017-)</td>
<td>Optimised drug dosing for critically ill patients receiving extracorporeal membrane oxygenation</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Dr Rochelle Ryan</td>
<td>PhD UQ (2017-)</td>
<td>Optimised dosing of perioperative antibiotics</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Aaron Hefferman</td>
<td>PhD Griffith University, (2017-)</td>
<td>Characterising antibiotic pharmacodynamics when administered by nebulisation</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Paul Jarrett</td>
<td>PhD QUT (2016-)</td>
<td>Characterising antibiotic wastage in ICUs</td>
<td>Jason Roberts, Aaron Hefferman</td>
</tr>
<tr>
<td>Nilesch Gupta</td>
<td>MPhil UQ (2016-)</td>
<td>Optimised dosing of antibiotics for central nervous system infections</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Yarmarly Guerra Valero</td>
<td>PhD UQ (2016-)</td>
<td>Role of microsampling to improve the feasibility of dosing studies in children</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Dr Tavey Dorofaeff</td>
<td>PhD UQ (2016-)</td>
<td>Optimised antibiotic dosing in critically ill children</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Dr Angela Tognolini</td>
<td>MPhil UQ (2018-)</td>
<td>Optimised lignocaine dosing for analgesia in chronic pain patients</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>William Franks</td>
<td>MPhil UQ (2017-)</td>
<td>Optimised antifungal dosing in solid organ transplant patients</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Bryan Gregory</td>
<td>MPhil QUT (2016-)</td>
<td>Optimised immunosuppressant dosing in renal replacement therapy</td>
<td>Jason Roberts</td>
</tr>
<tr>
<td>Elizabeth McCourt</td>
<td>PhD (2016-2019)</td>
<td>Australian pharmacists’ preparedness to fulfil roles in disasters</td>
<td>Lisa Nissen, Vivienne Tippett, Judith Singleton</td>
</tr>
<tr>
<td>Penelope Richards</td>
<td>MPhil QUT (2018-)</td>
<td>An Assessment of Pharmacist prescribing in an Elective Surgery Pre-Admission Clinic</td>
<td>Lisa Nissen, Greg Kyle, Andrew Hale</td>
</tr>
<tr>
<td>Monika Ogilvie</td>
<td>MPhil QUT (2018-)</td>
<td>Pharmacist prescribing in the Emergency Department</td>
<td>Lisa Nissen, Greg Kyle, Andrew Hale</td>
</tr>
<tr>
<td>Karen Bettenay</td>
<td>PhD QUT (2018-)</td>
<td>An evaluation of allied health prescribing in Queensland and development of non-medical prescribing implementation and evaluation frameworks</td>
<td>Andrew Hale</td>
</tr>
<tr>
<td>Jason Waddell</td>
<td>PhD QUT (2018-)</td>
<td>An investigation into the personality characteristics of Australian Pharmacists</td>
<td>Andrew Hale</td>
</tr>
<tr>
<td>Karen Davies</td>
<td>PhD UQ (2016-)</td>
<td>Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review and inter-rater and intra-rater reliability testing</td>
<td>Karen Whitfield, Ian Coombes, Samantha Keogh</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ian Coombes</td>
<td>Adjunct Associate Professor</td>
<td></td>
<td>UQ (2011-)</td>
</tr>
<tr>
<td>Andrew Hale</td>
<td>Adjunct Associate Professor</td>
<td></td>
<td>QUT (2016-)</td>
</tr>
<tr>
<td>Jason Roberts</td>
<td>NHMRC Practitioner</td>
<td>Optimising antibiotic dosing to improve patient outcomes and suppress emergence of resistant superbugs</td>
<td>2017-2021</td>
</tr>
<tr>
<td>Andrew Hale</td>
<td>Adjunct Senior Lecturer</td>
<td></td>
<td>UQ</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

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<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD Research Program</td>
<td>Pauline Nicholas, Carla Scuderi, Deborah Smith, Michelle Rice, Martin Wooley, Dravakaranathan Ranganathan</td>
<td>A feasibility study comparing topical use of acetic acid at the exit site versus mupirocin to prevent exit site infections (ESI) in peritoneal dialysis (PD) patients (ACES Study)</td>
</tr>
<tr>
<td>Kidney Supportive Care Collaborative</td>
<td>Anne Bonner, Louise Purtell (QUT), Helen Healy, Ilse Berquill, Julie Kirby, Carla Scuderi</td>
<td>Kidney Supportive care in the community through access to clinics and information sessions</td>
</tr>
<tr>
<td>Helen Healy, Andrew Mallett, Carla Scuderi</td>
<td>Christine Staatz, Helen Healy, George John, Margaret Jacks, Andrew Mallett, Suzanne Parker, Jason Roberts</td>
<td>Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant recipients</td>
</tr>
<tr>
<td>Helen Healy, Andrew Mallett, Carla Scuderi</td>
<td>Sadia Jahan, Carla Scuderi, Christine Staatz, Helen Healy, George John, Margaret Jacks, Andrew Mallett, Suzanne Parker, Jason Roberts</td>
<td>An observational pharmacokinetic study of Bactrim® (trimethoprim-sulfamethoxazole) in renal transplant recipients</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Chapman, Jaryth Twine, Sumbal Shahid, William Franks</td>
<td></td>
<td>Antimicrobial prescribing in community acquired pneumonia at Caboolture hospital</td>
</tr>
<tr>
<td>David Carr, William Franks</td>
<td></td>
<td>Antimicrobial prescribing in oral health</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melynda Flor</td>
<td>Best First Time Presenter- Research</td>
<td>SHPA Medicines Management 2018. 2018 November 22-25; Brisbane</td>
</tr>
<tr>
<td>Nicola Harper</td>
<td>Best Poster</td>
<td>SHPA Medicines Management 2018. 2018 November 22-25; Brisbane</td>
</tr>
<tr>
<td>Ian Coombes</td>
<td>William Harris Award</td>
<td>SHPA Medicines Management 2018. 2018 November 22-25; Brisbane</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

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<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
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<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carla Scuderi, George John, Suzanne Parker, Helen Healy, Christine Staatt, Jason Roberts</td>
<td>Kidney Health Service – Kidney Transplant Research Group</td>
<td>Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant patients</td>
<td>Royal Brisbane and Women's Hospital and Royal Brisbane and Women's Foundation Research</td>
<td>$19,873</td>
<td>$39,873 (2018)</td>
</tr>
<tr>
<td>K Hurree E. Button, K Whitfield</td>
<td>Pharmacy department (Cancer Care)</td>
<td>Educating Cancer Patients – their way</td>
<td>SEED funding MNHHS</td>
<td>$82,631</td>
<td>$82,631 (2018)</td>
</tr>
<tr>
<td>Karamujic N, Roberts JA</td>
<td>(SAFE-ICU) study</td>
<td>Pharmacokinetic and statistical analysis of data from Screening Anti-Fungal Exposure in Intensive Care Units</td>
<td>Royal Brisbane and Women's Hospital Research Foundation</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Woods M, Harris P, Whiley D, Roberts JA, Lipman J, Hajkowicz K, Redmond A</td>
<td></td>
<td>Rapid detection of resistance genes from gram negative bacteria isolated from blood in ICU-admitted patients to enable timely and effective treatment</td>
<td>Royal Brisbane and Women's Hospital Research Foundation</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Reed S, Lipman J, Roberts JA, Paterson DL, McCombe P, Wallis S</td>
<td></td>
<td>Ion Mobility Separation of challenging clinical samples</td>
<td>University of Queensland Major Equipment and Infrastructure and NHMRC Equipment Grant</td>
<td>$84,983</td>
<td>$84,983 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Articles

Journal Articles:


3. Carla Scuderi, Tilley Pain. Using confidence assessment to explore physiotherapists, dieticians, speech pathologists and occupation therapist knowledge of medicines. Journal of Interprofessional Care


Heffeman A, Sime FB, Tarcona FS, Roberts JA. How to optimize PK/PD in Gram-negative infections in critically-ill patients. Curr Opin Infect Dis 2018; in press (date accepted 14th September 2018; QCO310603)


Abdel-Aziz MH, Driver E, Lipman J, Roberts JA. New paradigm for rapid achievement of appropriate therapy in special populations: coupling antibiotic dose optimisation rapid microbial methods. Exp Opin Drug Metab Toxicol 2018; 14(7):693-708


Journal Articles: (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

1. Roberts JA. “Meet the Expert: Treating the treatment: infections in critically ill patients requiring ECMO” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

2. Roberts JA. “Do we need beta-lactam TDM or can we just use prolonged infusions?” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

3. Roberts JA. “Challenging breakthroughs with supranormal dosing: Where is the limit in terms of side effects with higher dosing, and can toxicodynamics help?” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

4. Roberts JA. “Posaconazole table and IV formulation: Clinical and Real World Evidence Overview” European Conference on Clinical Microbiology and Infectious Diseases, Madrid, Spain, April 2018

5. Coombes I. Professional recognition and credentialing for transforming pharmaceutical care – Pharmacy: transforming outcomes! At 78th FIP World Congress of Pharmacy and Pharmaceutical Sciences, Glasgow, UK, 2-6 September 2018


7. Roberts JA. “Therapeutic Drug Monitoring of beta-lactams in ICU – is this ready for prime time?” Antimicrobial Pharmacokinetic-Pharmacodynamics (PKPD) Workshop, Kuala Lumpur, Malaysia, September 2018

8. Roberts JA. “Antibiotic dosing and optimization”. Antibiotic Masterclass, University of Malaya, Kuala Lumpur, Malaysia, September 2018


11. Davies, K. M., “Be Safe, Be Accountable and Be Confident” presentation. AUSmed Medicines and Midwives Conference 2018. Brisbane, Australia

12. Harper N, Tai B, Stowasser D. Time-and-motion study on nursing time before and after Pyxis implementation in an Emergency Department


Oral Presentations:


Oral Presentations:  (cont):


Poster Presentations:

1. Melynda Flor, Centaine L. Snoswell, Cameron Tessier, Sunita Rantanjee, Dr Andrew Hale, Andrew Matthews, Prof Lisa Nissen, A/Prof Ian Coombe. Is a UK-trained accuracy checking pharmacy assistant as proficient and efficient as an Australian Pharmacist?


10. Jesseca Eglington and Lyndsay Steel a Partner in medication management and safety: A review of the addition of a pharmacist to the Cardiology Outpatient Clinics CSANZ 2018 (Cardiac Society of Australia and New Zealand) 66th Annual Scientific Meeting.

11. Lyndsay Steel and Lisa Allard Oral anticoagulation dose and adjustment advice. A retrospective review of pharmacist communication at discharge. CSANZ 2018 (Cardiac Society of Australia and New Zealand) 66th Annual Scientific Meeting.


**Poster Presentations (cont):**

15. Turkington J, Noble C, Molloy E, Coombes I. Hospital pharmacists’ engagement with feedback in interdisciplinary workplace setting: a Scoping Review. Medicines Management, November 201

16. Hendy A, Coombes I, Woodruff G. Is our money where our mouth is? Do action plans get actioned?


20. Waddell J, Nissen L and Hale A. The Personality Traits of Australian Pharmacy Students. Life Long Learning in Pharmacy Conference, Brisbane, 6th-9th July 2018


23. Waddell JJ, Nissen LM, Kyle GJ and Hale AR. An evaluation of the personality traits of Australian pharmacists using the Big Five Inventory – FIP, Glasgow Sept 2018

24. Waddell JJ, Nissen LM, Kyle GJ and Hale AR. Nature versus nurture: using the BFI to evaluate the personality of Australian pharmacy student. RP, Glasg Sept 2018


26. Nakagaki M, Johnstone S. Advanced Technician in a Specialised Bone Marrow Transplant Pharmacy Clinic. Cancer Care Research Retreat, November 2018

27. McIlwain J, Rantucci M. Glucarpidase: Treatment for Methotrexate Toxicity. Cancer Care Research Retreat, November 2018


32. Nakagaki M, Johnstone S. Advanced Technician in a Specialised Bone Marrow Transplant Pharmacy Clinic. 44th SHPA Medicines Management Conference, Brisbane, Australia, 22-25 November


**Other Communications and Outputs:**

**Symposiums:**


McCourt E. Improving pharmacist involvement in pandemic influenza planning and response in Australia. Deeble Institute Issues Brief.

Silvestro D, Busuttil L, Pattullo C. Warfarin bridging with unfractionated heparin infusion in pre-operative patients; how are we doing? 27th RBWH Healthcare Symposium.

**ACADEMIC APPOINTMENTS 2018**

Carla Scuderi Course Coordinator University of Qld Clinical Pharmacy Post graduate program.
2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Philip Robinson</td>
<td>Nil</td>
<td>Gout Genetics</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:
4. David Bursill... Philip Robinson... Nicola Dalbeth. Gout, Hyperuricemia and Crystal-Associated Disease Network (G-CAN) consensus statement regarding labels and definitions for disease elements in gout. Arthritis Care & Research, in press May 2018 (IF 3.32)
A good year for Research within Sexual Health and HIV Service.

QPREP – Queensland State-wide research project for the implementation of Pre-exposure Prophylaxis for the prevention of HIV transmission. Commenced January 2017 and closed in November 2018. Sexual Health and HIV Service has a large recruitment site.

1. HIV Prevention

2. Multidrug resistance Mycoplasma Genitalium
   In 2017-2018 the emergence of multidrug resistance in Mycoplasma Genitalium, has led to significant complexity in treatment regimens. The work with UQCCR and Queensland Pathology with the public funded sexual health and HIV clinics (Ongoing).
   Achievements – Molecular resistance platforms to guide treatment options.

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>SHHS Julian Langton-Lockton, Queensland Positive People, Metro North Public Health Unit</td>
<td>SHHS, Metro North Public Health Unit, Queensland Positive People</td>
<td>LINK funding – Testing to Treatment, Closing the Circle</td>
</tr>
</tbody>
</table>

2018 Research Publications

**Journal Articles:**

**Other Communications and Outputs:**

**Ongoing projects:**
1. AHOD-Australasian HIV Observation Data – Ongoing site for Project nationwide, Kirby Institute UNSW
2. Cease – Kirby – Control and Eradication within Australia of Hepatitis C from people living with HIV
3. Start – Kirby – Comparing early initiation of ART with deferred ART
4. Thrive – We did SSA but never recruited anyone (UQ) Tobacco harm reduction with vaporised nicotine
5. AHOD – Kirby
6. Long term non progressor (last patient off after June VL 11500) Also a Kirby study.
Queensland State-wide Antimicrobial Stewardship Program

The research highlights for the Queensland State-wide Antimicrobial Stewardship Program were the collaboration of the Hot North Project which is quantifying and assessing appropriateness of antimicrobial prescribing practice in remote Aboriginal primary health care clinics across northern Australia.

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Jodie McVernon</td>
<td>Dr Kathryn Daveson</td>
<td>Hot North project</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Kathryn Daveson</td>
<td>Queensland Statewide Antimicrobial Stewardship Program</td>
<td>Hot North</td>
<td>Menzies</td>
<td>$36,000</td>
<td></td>
</tr>
<tr>
<td>Dr Minyon Avent</td>
<td>Queensland Statewide Antimicrobial Stewardship Program</td>
<td>An innovative Antimicrobial Stewardship Program for children in remote and regional areas: optimising antibiotic use through early intravenous-to-oral conversion</td>
<td>Children’s Health Foundation</td>
<td>$95,000</td>
<td></td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Avent, ML. Supporting rural and regional prescribers: antibiotic optimisation in ‘the bush’. National Antimicrobial Resistance and Stewardship Forum 2 November 2018
2. McNamara S. AMS: widening the collaborative approach presented to the Antimicrobial Stewardship: getting it right the first-time workshop Medicines Management – 44th Society of Hospital Pharmacists of Australia (SHPA) National Conference, Brisbane, 22-25 November 2018

Oral Presentations:
4. Waddell E, Daveson K, McNamara S.‘ Connecting the Dots: Developing Quality Improvement skills in rural areas for the optimisation of the use of antibiotics’. Royal Brisbane & Women’s Hospital 27th Annual Healthcare Symposium, 11-13 September 2018

Poster Presentations:
Department of Thoracic Medicine

Research carried out by department members in 2018 covers the fields of lung cancer, interstitial lung disease, respiratory physiology and asthma.

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assoc Prof David Fielding</td>
<td>RBWH Thoracic Medicine</td>
<td>Improving lung cancer diagnosis through genomic testing of cytology smears</td>
<td>Cancer Australia</td>
<td>$400,000</td>
<td>$400,000 (2018-2019)</td>
</tr>
<tr>
<td>Assoc Prof David Fielding</td>
<td>RBWH Thoracic Medicine</td>
<td>Improving lung cancer diagnosis through genomic testing of cytology smears</td>
<td>Cancer Council of Qld</td>
<td>$100,000</td>
<td>$100,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

1. **Fielding D** et al. Diff-Quik cytology smears from Endobronchial Ultrasound Transbrachial Needle Aspirate Lymph Node Specimens as a source of DNA for Next Generation Sequencing instead of cell blocks. Respiration 2018 In press DOI: 10.1159/000495661

2. **Fielding D**; **Travers J**; **Nguyen P**; **Brown MG**; **Hartel G**; **Morrison S**, Expiratory reactance abnormalities in patients with expiratory dynamic airway collapse: a new application of impulse oscillometry. ERJ Open Research [ERJ Open Res], ISSN: 2312-0541, 2018 Nov 12; Vol. 4 (4); Publisher: European Respiratory Society; PMID: 30443553

3. Langton D; Ing A; **Fielding D**; Wang W; Plummer V; Thien F, Bronchodilator responsiveness as a predictor of success for bronchial thermoplasty. Respirology (Carlton, Vic.) [Respirology], ISSN: 1440-1843, 2019 Jan; Vol. 24 (1), pp. 63-67;

4. **Pattison A**; Cook A; Singh M; Nandakumar L; Ravi Kumar A; **Fielding D** EBUS-TBNA Cytology Specimens are Predictive of Occupational Dust Exposure in Patients With Bilateral Mediastinal and Hilar Lymphadenopathy. Journal Of Occupational And Environmental Medicine [J Occup Environ Med], ISSN: 1536-5948, 2018 Oct; Vol. 60 (10), pp. 880-885; Publisher: Lippincott Williams & Wilkins; PMID: 29995650


7. **Fielding D** Tissue is the issue to confirm benign disease at pleuroscopy in lung cancer.Respirology (Carlton, Vic.) [Respirology], ISSN: 1440-1843, 2018 Feb; Vol. 23 (2), pp. 126-127; Publisher: Blackwell Science; PMID: 29168601

8. **Fielding D**; Schuster DD Distinguishing Bronchoscopic Changes of Mitral Stenosis From Carcinoma In Situ With Narrow Band Imaging. Journal Of Bronchology & Interventional Pulmonology [J Bronchology Interv Pulmonol], ISSN: 1948-8270, 2018 Jul; Vol. 25 (3), pp. 231-234; Publisher: Wolters Kluwer Health/Lippincott Williams & Wilkins; PMID: 27070339


2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:
2. Bui D, Walters H, Morrison S, Dharmage S et al. Middle-age lung function decline is predominantly influenced by adult factors and their interactions with childhood and genetic factors. TSANZ Annual Scientific Meeting, Adelaide, March 2018

Poster Presentations:
2. Olive G, Byrnes R, Singh M, Bashirzadeh F, Fielding D. High diagnostic yield of transbronchial cryobiopsy includes focal pathologies and is enhanced by EBUS. TSANZ Annual Scientific Meeting, Adelaide, March 2018
3. Rodwell L, Schneider I, McElrea M, Brown M. A culturally appropriate indigenous spirometry training program – a means to improve quantity and quality of spirometry performed in primary care. ANZSRS Annual Scientific Meeting, Adelaide, March 2018
4. Leong M, Brown M, Ritchie A, Samaratunga D. Encouraging nasal/nasal pillow masks during initial titration reduces recommended CPAP pressures and improves titration outcomes. Sleep Down Under, Brisbane, October 2018
5. Galt L, Ritchie A. Safety of feeding tube insertion in MND patients. Sleep Down Under, Brisbane, October 2018
The Department of Medical Imaging (DMI) provides a full range of diagnostic and interventional imaging services. DMI actively undertakes clinical research in departmental, interdepartmental and multi-site collaborative research projects. Under the directorship of Professor Alan Coulthard, the DMI Research Office supports many departmental research projects and clinical trials while further supporting external, service-based research studies established by other RBWH departments or external research groups. Our consultants, registrars, nurses and radiographers provide expertise on imaging protocols, clinical diagnosis and interventional procedures to best support these projects. Partnerships with research institutions such as the Queensland Brain Institute, the Centre for Advanced Imaging, QIMR Berghofer, UQCCR and CSIRO have only strengthened over 2018.

Highlights of our research from 2018 include:

**CONSULT Study** – This year we completed the first stage in clinically validating tractography software to be used by radiologists and neurosurgeons for pre-surgical planning of patients about to receive brain surgery. This is a collaborative project between DMI, Dept. Neurosurgery and CSIRO.

**EPPICS Study** – This year we completed a three-year clinical trial designed to identify the optimal means of keeping patients anti-coagulated during intercranial aneurysm procedures.

**PICC Study** – This radiographer-driven study is designed to determine the optimal vein size-to-catheter ratio to reduce the occurrence of thromboembolic events in patients with PICC lines.

**Interventional Oncology Unit** – There has been a substantial increase in the demand for interventional radiologists to be involved in treating cancer patients. Data collected from this service will support many new research initiatives currently under development between these two departments.

**Centre of Excellence for Interventional Neuroradiology** – We are currently establishing a process for First in Human Clinical Trials for medical devices used in interventional neuroradiology procedures such as treating unruptured aneurysms and clot retrieval.

Our research provides valuable insights into the standards of practice within the department by exploring new diagnostic and interventional avenues. The diverse range of clinical trials currently being conducted within DMI will lead to changes of practice which will directly affect patient treatment and care across all imaging modalities.
Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Rachael Anstey</td>
<td>MPhil, UQ</td>
<td>University</td>
<td>The Use of MRI and Ultrasound in Foetal Ventriculomegaly</td>
<td>Dr Gail Durbridge</td>
</tr>
<tr>
<td>Mr Muhammed Latif</td>
<td>MSc, Anglia Ruskin University, UK</td>
<td>University</td>
<td>Magnetic Resonance Imaging</td>
<td>Dr Catherine Westbrook</td>
</tr>
<tr>
<td>Ms Alice Graham</td>
<td>MPhil, QUT</td>
<td>University</td>
<td>Project title pending</td>
<td>Dr Karen Dobeli</td>
</tr>
<tr>
<td>Ms Kate Smith</td>
<td>MPhil, QUT</td>
<td>University</td>
<td>The Impact of Patient Arm Position for Multi-trauma Patients with Upper Extremity Injuries</td>
<td>Dr Karen Dobeli</td>
</tr>
<tr>
<td>Ms Jill Davies</td>
<td>Graduate Certificate, QUT</td>
<td>University</td>
<td></td>
<td>N/A</td>
</tr>
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</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Alan Coulthard</td>
<td>Professor</td>
<td>Director of Research</td>
<td>UQ School of Medicine</td>
</tr>
<tr>
<td>Dr Karin Steinke</td>
<td>Associate Professor</td>
<td>Chest and Breast Oncology</td>
<td>UQ School of Medicine</td>
</tr>
<tr>
<td>Dr Peter Scally</td>
<td>Associate Professor</td>
<td>Fluoroscopy, Tier A procedures</td>
<td>UQ School of Medicine</td>
</tr>
<tr>
<td>Dr Craig Hacking</td>
<td>Senior Lecturer</td>
<td>Trauma and Emergency Radiology</td>
<td>UQ School of Medicine</td>
</tr>
<tr>
<td>Dr Karen Dobeli</td>
<td>Honorary Associate</td>
<td>Senior lecture in the Masters in Medical Imaging CT programme</td>
<td>University of Sydney</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/ Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M Fielder, N Waters, J Hocking, M Prior, A Coulthard</td>
<td>Dept. Medical Imaging</td>
<td>Bright Spots Study – prospective study of clinically silent ischaemic events post elective endovascular treatment of intracranial aneurysms</td>
</tr>
<tr>
<td>M Fielder, J Hocking, M Prior A Coulthard</td>
<td>R Jeffree (Neurosurgery) T Robertson (Anatomical Pathology) D Reutens (Centre for Advanced Imaging)</td>
<td>High field magnetic resonance imaging of hippocampal sclerosis</td>
</tr>
<tr>
<td>J Hocking, M Fielder, M Prior, A Coulthard</td>
<td>Dept. Medical Imaging</td>
<td>Enoxaparin for postoperative prophylaxis in intracranial coiling and stents (EPPICS)</td>
</tr>
<tr>
<td>J Hocking, M Prior, A Coulthard</td>
<td>Dept. Medical Imaging</td>
<td>Silent Intracranial lesions in endovascular treatments (SiLeNT)</td>
</tr>
<tr>
<td>M Fielder, N Waters, M Prior, A Coulthard</td>
<td>Dept. Medical Imaging</td>
<td>Verify Now Study – effect of collection technique on platelet inhibition results</td>
</tr>
<tr>
<td>H Thalagala, M Fielder, M Prior, A Coulthard</td>
<td>Dept. Medical Imaging</td>
<td>The effect of Grey Blanket Protocol on clot retrieval times</td>
</tr>
<tr>
<td>R Gunasena, M Prior, K Steinke</td>
<td>Dept. Medical Imaging</td>
<td>CT imaging requests in the Emergency Department (Radiology) – are we Choosing Wisely?</td>
</tr>
<tr>
<td>A Bernard, M Fielder, R Bains</td>
<td>Dept. Medical Imaging</td>
<td>The role of interventional radiology in splenic trauma</td>
</tr>
<tr>
<td>N Mott</td>
<td>J Lee, D Ranganathan, (Renal Medicine)</td>
<td>RadCath Study – randomised controlled trial to determine the appropriate time to initiate peritoneal dialysis after radiological insertion of catheters to minimise complications</td>
</tr>
<tr>
<td>M Fielder, J Sommerville</td>
<td>R Sommerville (ENT), HIRF Centre for Advanced Imaging (CAI)</td>
<td>Perineural Spread of Head and Neck Cancers</td>
</tr>
<tr>
<td>J Sommerville, M Fielder</td>
<td>R Sommerville (ENT)</td>
<td>Utility of Black Blood MRI Sequence in Evaluating Perineural Spread in Head and Neck Cancers</td>
</tr>
<tr>
<td>M Fielder, A Coulthard</td>
<td>N Surendran (Neurosurgery)</td>
<td>Common Vertebral Artery Variants and their Clinical Implications</td>
</tr>
<tr>
<td>M Prior, A Coulthard, T Rajah</td>
<td>R Jeffree (Neurosurgery), L Reid (CSIRO)</td>
<td>CONSULT – Predicting Surgery-induced Neurological Deficits using CONSULT</td>
</tr>
<tr>
<td>M Lu, P Jenvey, M Prior</td>
<td>J van de Pol, J Kinyanjui, L Daniele (Orthopaedics) HIRF</td>
<td>Prospective assessment of graft incorporation and ligamentisation after anterior cruciate ligament (ACL) reconstruction using two different hamstring tendon fixation techniques</td>
</tr>
<tr>
<td>T Mason, N Newman, M Prior</td>
<td>Dept. Medical Imaging</td>
<td>PICC Study – what is the optimal vein size-to-catheter ratio to reduce the occurrence of thromboembolic events in patients with PICC lines?</td>
</tr>
<tr>
<td>A Rao, S Gustafson, M Lu, F Sitheeque, M Prior</td>
<td>Dept. Medical Imaging</td>
<td>MR Enterography – impact on image quality using split dose Buscopan</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Simpson, Dr van der Mei, Dr Taylor (Menzies Institute for Medical Research, Tasmania), Prof Rose, Dr Fripp (CSIRO), Dr Lucas (ANU), and the Ausimmune AusLong Investigator Groups</td>
<td>C Odenthal (DMI), A Coulthard (DMI)</td>
<td>Midsagittal corpus callosum area and conversion to multiple sclerosis after clinically isolated syndrome: a multicentre Australian cohort study</td>
</tr>
<tr>
<td>Assoc. Prof. Yan (Royal Melbourne Hospital)</td>
<td>N Waters (DMI), A Coulthard (DMI)</td>
<td>Genetic Effects on Antiplaatlet Response (GEAR)</td>
</tr>
<tr>
<td>Prof. Pender (Dept of Neurology, RBWH)</td>
<td>K Steinke (DMI)</td>
<td>Low Dose Computed Tomography (LCDT) to diagnose lung cancer</td>
</tr>
<tr>
<td>Prof Colditz (UQCCR), Prof. Boyd (QLD Cerebral Palsy Rehabilitation and Research Centre, UQ)</td>
<td>A Coulthard (DMI)</td>
<td>Neurodevelopment of the preterm infant (PRETerm Brain Outcomes – PREBO)</td>
</tr>
<tr>
<td>Sillagen – Global Trial</td>
<td>S Davis (DMI), N Mott (DMI), R Skoien (Dept of Gastroenterology and Hepatology)</td>
<td>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)</td>
</tr>
<tr>
<td>R Zivadinov, M Dwyer, Buffalo Neuroimaging Analysis Centre, University of Buffalo New York, USA</td>
<td>J Roberts (DMI), P McCoombe</td>
<td>NeuroSTREAM – creation of a multi-centre database to study real world brain and lesion volume changes in Multiple Sclerosis (MS)</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rebekah Onsely</td>
<td>ASMIIRT International Travel Scholarship</td>
<td></td>
</tr>
<tr>
<td>DMI Clot Retrieval Team: Alan Coulthard, John Clouston, Ken Mitchell, Kate Mahady</td>
<td>RBWH Staff Excellence Award</td>
<td></td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
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<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryan Sommerville, Jennifer Sommerville, Matthew Fielder</td>
<td>Dept. of E.N.T. Dept. Medical Imaging</td>
<td>Perineural Spread of Head and Neck Cancers</td>
<td>RBWH Diamond Care</td>
<td>$31,000</td>
<td>$31,000 (1 year)</td>
</tr>
<tr>
<td>Lee Reid, Marita Prior, Rosalind Jeffree, Alan Coulthard, Thulasi Rajah</td>
<td>Dept. Neurosurgery, Dept. Medical Imaging, CSIRO</td>
<td>CONSULT – Predicting Surgery-induced Neurological Deficits using CONSULT</td>
<td>RBWH Diamond Care</td>
<td>$15,000</td>
<td>$15,000 (1 year)</td>
</tr>
<tr>
<td>Amanda Ullman, Patrick Harris, Andrew Bulmer, Rachael Walker, Naomi Runnegar, Tricia Kleidon, Paul Lee-Archer, Benjamin Pearch, Alan Coulthard (AI)</td>
<td>Griffith University, PAH, LCCH, Dept. Medical Imaging RBWH</td>
<td>PICNIC Trial</td>
<td>NHMRC</td>
<td>$235,526</td>
<td>$706,580 (3 years)</td>
</tr>
<tr>
<td>Joanne George, Alex Pagnozzi, Samudragupta Bora, Jane Bursle (AI)</td>
<td>University QLD, CSIRO, Dept. of Medical Imaging RBWH</td>
<td>Prebo-6 Trial – Prediction of Childhood Brain Outcomes in Infants born Preterm using Neonatal MRI and concurrent clinical biomarkers</td>
<td>NHMRC</td>
<td>$277,333</td>
<td>$832,000 (3 years)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:
Journal Articles: (cont):


Book Chapters / Letters:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speakers:

1. Steinke K. 'Microwave ablation of lung; Principle and techniques'. Invited speaker BCIO Bangkok Conference in Interventional Oncology. 2017, Bangkok, Thailand

2. Steinke K. 'How to improve outcome of trans-thoracic needle biopsy'. Invited speaker BCIO Bangkok Conference in Interventional Oncology. 2017, Bangkok, Thailand

3. Steinke K. 'Combined SBRT and Microwave ablation for node-negative NSCLC'. Trial proposal at 2018 TROG ASM, 2018, Hobart, Australia

4. Steinke K. 'Interstitial Lung Disease'. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

5. Steinke K. 'Lung Cancer/TNM8 update’. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

6. Steinke K. 'Solitary Pulmonary Nodule'. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

7. Steinke K. 'Cystic Pulmonary Disease'. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

8. Steinke K. ‘RECIST Trial Reporting’. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

9. Steinke K. 'CT Lung Biopsy/MWA'. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

10. Steinke K. 'Dense Breasts. Invited speaker. RANZCR Tasmanian Branch Meeting, 2018, Hobart, Australia

11. Dobeli K. 'High heart rate is not necessarily a contraindication for prospective-triggered CT coronary angiography'. Australian Society of Medical Imaging and Radiation Therapy ASM. 2018. Canberra, Australia


15. Sommerville J. 'Imaging the Perineural Spread in Head and Neck Cancer'. Brisbane Cancer Conference. 2018. Brisbane, Australia


18. Hacking C. 'Trauma in pregnancy'. RANZCR ASM, 2018, Canberra, Australia


25. Hacking C. 'What not to miss: AXR’. Keynote Speaker, Trauma and Acute Imaging Symposium, 2018. Gold Coast, Australia

26. Hacking C. 'Acute abdominal CT’. Keynote Speaker, Trauma and Acute Imaging Symposium, 2018. Gold Coast, Australia

27. Hacking C. 'What not to miss: Multitrauma CT’. Keynote Speaker, Trauma and Acute Imaging Symposium, 2018. Gold Coast, Australia

28. Hacking C. 'Vascular emergencies’. Keynote Speaker, Trauma and Acute Imaging Symposium, 2018. Gold Coast, Australia


Oral Presentations:

1. Koi V. 'The Vital Signs of Facial Bone and OPG.' Trauma and Acute Imaging Symposium, 2018. Gold Coast, Australia

2. Miller P. 'Ultrasound Versus CT for the Liver’. ASA, 2018

Oral Presentations: (cont):
4. **Fielder M.** 'Catheter directed therapy for massive and submassive pulmonary embolism: a single centre Australian experience.' RANZCR ASM, 2018. Canberra, Australia
5. **Hocking J.** 'Therapeutic anticoagulation post elective intracranial aneurysm intervention in patients randomised to IV unfractionated heparin or subcutaneous enoxaparin.' RANZCR ASM, 2018. Canberra, Australia
6. **Hacking C.** 'Trauma in pregnancy.' RANZCR ASM, 2018. Canberra, Australia

Poster Presentations:
1. **Fielder M, Coulthard A.** 'Changing from Clopidogrel to Prasugrel: The Effect on Thromboembolic Complications for Stent-Assisted Coilings of Unruptured Intracranial Aneurysms.' RANZCR ASM, 2018. Canberra, Australia
2. **Fielder M, Surendran N.** 'Common Vertebral Artery Variants and their Clinical Implications.' RANZCR ASM, 2018. Canberra, Australia
3. **Fielder M, Coulthard A.** 'Platelet Reaction Unit (PRU) Response in Patients Presenting for Elective Endovascular Treatment of Intracranial Aneurysms: Comparison between Clopidogrel and Prasugrel.' RANZCR ASM, 2018. Canberra, Australia
7. **Lovell S, Sommerville J, Gandhi M.** 'Pictorial Review of Cephaloceles in Adults.' RANZCR ASM, 2018. Canberra, Australia
8. **Sommerville J.** Greater Occipital Nerve: Radiological anatomy demonstrated by two cases of perineural tumour spread. ASHNR. 2018. Georgia, U.S.A.
10. **Tromp D, Mann J, Hacking C.** Optimising computer tomography imaging in investigation of suspected renal calculi. RANZCR ASM, 2018. Canberra, Australia
11. **Hapugoda S, Do S, Hacking C.** The inaccuracy of pelvic binder placement in major trauma. Queensland Trauma Symposium, 2018, Brisbane, Queensland
MEDICAL SERVICES
Medical Services provides support to all areas of the Royal Brisbane and Women’s Hospital in all aspects of medical administration and encompasses several departments that contribute to invaluable research activities for the organisation.

The role of the Quality, Innovation and Patient Safety Services, which is part of Medical Services, is to lead the patient safety, quality and clinical improvement agendas for the Royal Brisbane and Women’s Hospital. This is achieved through an integrated approach in meeting the organisation’s clinical governance agenda. This service 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 role of the service, as is the drive for continuous improvement and organisational learning.

Dr Judy Graves
Executive Director
Medical Services

Danielle Heffernan
Nursing Director
Quality, Innovation and Patient Safety Service
Quality, Innovation and Patient Safety Services

The Quality, Innovation and Patient Support Service (QIPSS) is a professional clinical service with expertise in Governance, Audit and Risk Management; Change Management and Sustainability; Patient Experience and Quality Improvement and Innovation. QIPSS utilises the combined knowledge and strengths of our staff, consumers, academic and research partners to optimise the transferal of knowledge into patient safety. QIPSS is committed to excellence in care. Our purpose is to make an impact that matters and our research agenda aligns with it. We are driven to create positive outcomes for our patients and supportive environments for our clinicians.

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Mia McLanders</td>
<td>Adjunct Lecturer</td>
<td>School of Psychology</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(2018-current)</td>
</tr>
<tr>
<td>Dr Tara McCurdie</td>
<td>Honorary Research Fellow</td>
<td>School of Psychology</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(2017-current)</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Gavin (Cancer Care Services)</td>
<td>Mia McLanders (QIPSS)</td>
<td>Developing a CVAD Registry</td>
</tr>
</tbody>
</table>

2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:

Poster Presentations:

Other Communications and Outputs:

Manuscripts under review
Metro North Mental Health Services

Executive Director’s Report

As Executive Director of one of the largest mental health services in Australia, I am acutely aware of the interdependence of research and practice. With ever increasing demands on services, continually improving how we do business is an economic and ethical imperative. As evidenced by the research and related activity documented in this report, Metro North Mental Health staff are leading and actively working to ensure we provide the very best services to people affected by mental health conditions.

It is an honour to oversee a service committed to full integration of research and clinical practice, and to share in the rewards of ongoing investment in infrastructure and people. Metro North Mental Health continues to support conjoint academic appointments, employ dedicated researchers, support clinicians to engage in post-graduate study and to promote access to a range of educational and training opportunities. The service hosts and collaborates with researchers from a range of organisations across the world and locally, and actively supports and supervises students undertaking research as part of their undergraduate or research higher degrees. The work presented in this report demonstrates strong growth in research capability and interest and the strength of our partnerships within the HHS and with a range of academic and non-government partners.

Staff across disciplines and service lines are working collaboratively to design and conduct research and support translation of evidence to practice. As you will see in the report the work undertaken by, and in collaboration with MNMH is world class and wide ranging. Research spans multiple spectrums – ranging from basic discovery science through interventional clinical studies, to health services and policy research. Diverse methodologies are used to develop and refine understandings of the ‘cosmically complex’ mind and the systems within which people live, seek treatment and recover from mental illness. Some studies are funded by prestigious grants, others conducted with limited project grants and many, are conducted by dedicated clinicians who go the extra mile to integrate research in practice, with in-kind support of the service. The work is united in seeking to generate the evidence needed to prevent mental illness and improve mental health across the lifespan. Within such a context highlights are difficult to identify but I take this opportunity to acknowledge two projects which have already had real world impact albeit on – internationally and locally.

Work led by Associate Professor/Consultant Psychiatrist James Scott’s team at the Faculty of Medicine University of Queensland examining the causes, correlates and experience of bullying has enabled bullying in schools to be recognised as a risk factor for disease by the Global Burden of Disease 2017 Study (GBD 2017). The Youth Mental Health research team, led by James conducted the analyses necessary to show that bullying in schools was causative of depression and anxiety in adolescents and adults. Bullying is only the third psychosocial risk factor to be recognised by GBD 2017, the other two being childhood sexual abuse and intimate partner violence.

GBD 2017 is enormously influential for the development of public health policies around the world. The inclusion of bullying in GBD 2017 will ensure that governments globally will be taking steps to fund and implement effective interventions that reduce bullying in schools, thereby preventing cases of anxiety and depression in the population.

A study into the work lives and wellbeing of non-clinical staff working at various sites across MNHHS completed in 2017 has underpinned development of a service improvement plan at RedCab Mental Health. With support from the Executive, Jordan Duncan has worked closely with stakeholders to design various initiatives collectively designed to develop enabling environments and improve workplace health. This work has received substantial attention across the HHS and will provide a guide for similar activities for all staff. It is particularly pleasing to see research readily translated into service improvement.

Professor Brett Emmerson AM
Executive Director
Mental Health
Other highlights are outlined below by the leads of the various research streams:

**Neuroscience:**
Metro North Mental Health partners with QIMR Berghofer Medical Research Institute to undertake a program of biomedical research into the causes, diagnosis and treatment of mental health disorders. In 2018, the program expanded with the addition of two new research teams, the Brain Modelling Group and the Clinical Brain Networks Group, bringing the total number of independent research groups to 10. These groups investigate a number of common and severe mental health disorders including dementia, major depression, schizophrenia, attention deficit disorder and obsessive-compulsive disorder. Major neurological disorders, such as epilepsy and Parkinson’s disease, are also studied. Approaches vary from population health, genetics and neuroimaging, to molecular biology and stem cell techniques. In 2018, a new clinical trial was commenced, using brain stimulation to treat the symptoms of obsessive compulsive disorder. Mental Health Researchers, Sarah Medland and Jodie Painter were successful with over $2.5 million of research funding to study autism, attention deficit disorder and brain changes associated with disease risk.

**Early Psychosis:**
The Metro North Early Psychosis Service has been a principal site for the conduct of clinical trials. Young people afflicted by psychosis face a multitude of challenges. In addition to the distressing symptoms, they are often disadvantaged socially and vocationally. Better treatments for psychosis are urgently needed to improve outcomes. Clinical trials have been undertaken to investigate safe and potentially effective interventions. Sodium Benzoate, a food preservative which is safe and has minimal side effects has been shown to reduce symptoms in people with longstanding schizophrenia. Recruitment to a study comparing sodium benzoate to placebo as an adjunctive (add on) treatment was completed in October 2018. 100 young people with psychosis participated in this study. Analysis of results is currently underway. This is the first of many interventional studies which will be conducted in the early psychosis service in the quest to improve the outcomes for young adults who experience schizophrenia, bipolar disorder and other serious mental health conditions.

**Child and Youth Mental Health:**
With increasing demand for specialist assessment and intervention, Redcliffe-Caboolture Child and Youth Mental Health Service have focused research and related activities on describing and understanding access to, and experience of the service. Work is also exploring the experiences of staff and examining the ‘mechanisms of action’ of various interventions and models of service. A highlight has been the completion of a collaborative inquiry examining the roles and activities of a team of specialist clinicians working with young people whose needs are not met by standard outpatient treatment. The findings of studies are informing ongoing quality improvement activities. The service has dedicated 0.2 of a position to research and established a working group tasked with identifying research opportunities and building capacity for research within team, and building partnerships with universities and other agencies providing services to children and youth.

**Nursing:**
Mental Health Nursing Research continues to lead and participate in a range of service-based research programs. Mental Health Nursing was strongly represented at the 2018 ACMHN conference in Cairns with several posters and presentations. Kylie Hall presented Listening to Learn, a successful professional development tool that was developed here at RBWH. Helen Cartwright presented the three-year findings of supervising undergraduate and transition to mental nursing students. Helen won the 2018 Paul Spurr prize for best clinical supervision presentation for this work. The poster submissions reflected our ongoing work in practice improvement through the evaluation and use of evidence based methods. The Broset tool which has aided in the prediction of violence and aggression in the psychiatric emergency centre, and the Safewards program which has now been rolled out to all mental health clinical areas at RBWH. This has been shown to be a successful contributor to the reduction of seclusion use in our service. The Safewards program delivered our service a publication evaluating the nurse’s perceptions of the program. Through this research we understand barriers to implementation and can now better respond to the staff needs to ensure successful programs that reduce aggression and seclusion. RBWH are researching the use of technology to monitor vital signs in high risk environments and clinical situations to maximise patient monitoring and safety. The ability to translate technology into practice and increase our clinical efficacy is an important contributor to our ongoing ability to optimise consumer care and outcomes.

We celebrate the continued growth in research capabilities across the service and look forward to focusing research and quality improvement activities on trauma informed care in the coming year.
Queensland Eating Disorders Service:
The Queensland Eating Disorders Service (QuEDS) provides specialist state-wide consultation, training and treatment services. Consultation services include face-to-face and teleconference services to clinicians in inpatient and community settings, as well as an outpatient assessment and consultation service for GPs at the RBWH. QuEDs also provides training to more than 3000 clinicians per year. Treatment services include a Day Program based at Finney Rd, Indooroopilly, and evidence-based outpatient treatments including CBT-e and SSCM. QuEDs values the expertise of those with lived experience, both consumers and carers, and regularly draws on such expertise for its training of clinicians and development of treatment guidelines. QuEDs regularly engages with service directors throughout the state to assist them in providing better services to people with eating disorders and their families. Satellite eating disorder services (‘hubs’) have recently been established at the Sunshine Coast and Gold Coast, with a third hub in North Queensland to come online in 2019. QuEDs’ areas of research in 2018 have included service evaluation, evaluation of refeeding protocols, and investigations of novel treatments including intranasal oxytocin and deep brain stimulation. QuEDs has research partnerships with various research institutions including QIMR, QBi, HIRF, the University of Queensland, and the University of Sydney.

Queensland Forensic Mental Health Services:
Queensland Health is the major provider of mental health services to people with a mental illness who are involved with, or at risk of entering, the criminal justice system. The Queensland Forensic Mental Health Service (QFMHS) is managed across the State from major groupings based in Brisbane (Metro North and West Moreton) and smaller hubs along the Queensland coast. The integrated services consist of Secure Inpatient Services, Prison Mental Health Services, Court Liaison Services, Community Forensic Outreach Services and Mental Health and Policing Programmes. The State-wide component of the service is led by the Director and Operations Manager, Queensland Forensic Mental Health Service (based in the Metro North HHS), with the support of the Service Managers, Clinical Directors, a Research and Evaluation Manager, and five State-wide positions coordinating Court Liaison Services, Prison Mental Health Services, District Forensic Liaison Network, Indigenous Forensic Mental Health, and the State-wide Community Risk Management program.

In 2017, research operations at QFMHS rapidly expanded with the appointment of two fixed term project managers for the research informed implementation focused project Partners in Prevention: Understanding and Enhancing First Responses to Suicide Crisis Situations. In addition, two research scientists were appointed to the Queensland Forensic Mental Health Group, a new research group at Queensland Centre for Mental Health Research (located in West Moreton HHS). These positions are co-located within QFMHS at Biala. The QFMHS-QCMHR collaboration has been further strengthened through the creation of several affiliate Principal Researcher positions for QFMHS staff.

Research in 2018 has focussed on:
- The interfaces between police, ambulance and mental health services
- Understanding and enhancing first responses to suicide crisis situations
- National benchmarking of Forensic Mental Health Services
- The use of interactive technology in custodial settings for the delivery of culturally appropriate social and emotional wellbeing programs to Indigenous Queenslanders
- Enhancing partnerships with other government departments and the tertiary education sector to improve mental health outcomes.

QFMHS 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 high impact publications, seminars and presentations.

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 Centre for Clinical Research, 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 OPMHS has a popular research registrar post. The program of work has focussed on dementia, anxiety and depression in older people. Work spearheaded by Professor Byrne, including development of an instrument for assessing anxiety in older people has been translated into more than 20 languages and is widely 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 2018 was 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.
## Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiona Davidson</td>
<td>PhD, The University of Queensland</td>
<td></td>
<td>Australian Mental Health Court Liaison Services, variation and common ground: performance measurement and evaluation</td>
<td>Philip Burgess, Ed Heffernan, David Greenberg, Tony Butler</td>
</tr>
<tr>
<td>Melanie Mitchell</td>
<td>PhD, Queensland University of Technology</td>
<td></td>
<td>Precursors to violence in people with mental illness who threaten violence</td>
<td>Gavin Palk, David Kavanagh</td>
</tr>
<tr>
<td>Elke Perdacher</td>
<td>PhD &amp; Master of Clinical Psychology, The University of Queensland</td>
<td></td>
<td>Stay Strong custody project</td>
<td>David Kavanagh, Jeanie Sheffield</td>
</tr>
<tr>
<td>Annette Vasey</td>
<td>Master of Clinical Psychology</td>
<td></td>
<td>Coursework masters</td>
<td>TBC</td>
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<tr>
<td>Bobbie Clugston</td>
<td>PhD, The University of Queensland</td>
<td></td>
<td>Mental health support of police negotiators program</td>
<td>Ed Heffernan, Philip Burgess, Meredith Harris</td>
</tr>
<tr>
<td>Carrick Anderson</td>
<td>Master of Forensic Mental Health UNSW</td>
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<td>Coursework masters</td>
<td>TBC</td>
</tr>
<tr>
<td>Jessica Brownhalls</td>
<td>PhD, Griffith University</td>
<td></td>
<td>Cross-gender contact as a predictor of intimate partner obsessive relational intrusions</td>
<td>Jennifer Wells</td>
</tr>
<tr>
<td>Chrystal Van De Belt</td>
<td>Master of Forensic Mental Health UNSW</td>
<td></td>
<td>Coursework masters</td>
<td>TBC</td>
</tr>
<tr>
<td>Kim Baskin</td>
<td>Master of Suicidology Griffith University</td>
<td></td>
<td>Comprehending the sexual health and sexuality in men with chronic mental illness: an epidemiological study</td>
<td>Ed Heffernan, Carla Meurk, Megan Steele</td>
</tr>
<tr>
<td>Elnike Brand</td>
<td>PhD, The University of Queensland</td>
<td></td>
<td>Physical health and mental illness: can implementation science assist in the prescription of physical activity for forensic patients with severe mental illness in a secure facility?</td>
<td>Ed Heffernan, Angela Rasch</td>
</tr>
<tr>
<td>Katherine Moss</td>
<td>MPhil, The University of Queensland</td>
<td></td>
<td></td>
<td>Ed Heffernan, Carla Meurk, Megan Steele</td>
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<tr>
<td>Lucianne Palmquist</td>
<td>PhD, Griffith University (2013 – Current)</td>
<td></td>
<td>Adolescent Child/Youth Mental Health Service Users’ experiences and expectations of ‘recovery’: a grounded theory</td>
<td>Analise O’Donovan; Graham Bradley; Sue Patterson</td>
</tr>
<tr>
<td>Annaketurah Ralph</td>
<td>PHD The University of Queensland</td>
<td></td>
<td>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</td>
<td>Matthew Gullo, Paul Harnett and Jason Connor</td>
</tr>
<tr>
<td>Rachael Brimelow</td>
<td>PHD The University of Queensland</td>
<td></td>
<td>Management of affective and anxiety disorders in aged-care: identification, diagnosis and the impact on wellbeing through an e-health initiative for personal carers</td>
<td>Nadeeka Dissanayaka, Gerard Byrne and Judy Wollin</td>
</tr>
<tr>
<td>Emily Hielscher</td>
<td>PhD The University of Queensland</td>
<td></td>
<td>Non-accidental self-injury and suicidality in adolescents and young adults with psychotic experiences</td>
<td>James Scott</td>
</tr>
<tr>
<td>Alex Ryan</td>
<td>PhD</td>
<td></td>
<td>The aetiopathogenic role of autoantibodies against the M1 muscarinic acetylcholine receptor in patients with first episode of schizophrenia</td>
<td>James Scott, Judith Greer</td>
</tr>
<tr>
<td>Berihun Dachew</td>
<td>PhD The University of Queensland</td>
<td></td>
<td>Hypertension Disorders of Pregnancy and Offspring Mental and Behavioural Disorders</td>
<td>Rosa Alati, Abdullah Mamun, James Scott</td>
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<tr>
<td>Shuichi Suetani</td>
<td>PhD The University of Queensland</td>
<td></td>
<td>Physical Activity and Mental Disorders: Epidemiological Analyses using Australian datasets</td>
<td>John McGrath, James Scott</td>
</tr>
<tr>
<td>Ashlea White</td>
<td>Psychiatry Scholarly Project</td>
<td></td>
<td>Association of chronic physical illness and mental disorder in children and adolescents</td>
<td>Hannah Thomas, James Scott</td>
</tr>
<tr>
<td>Charana Perera</td>
<td>Psychiatry Scholarly Project</td>
<td></td>
<td>Therapeutic monitoring of Lithium in routine psychiatric care</td>
<td>George Bruxner, Sue Patterson</td>
</tr>
</tbody>
</table>
### Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Wright</td>
<td>PhD The University of Queensland (2017-2022)</td>
<td>Investigating the factors influencing implementation of sensory modulation in inpatient mental health units</td>
<td>Sally Bennett, Pamela Meredith</td>
</tr>
<tr>
<td>Rebecca Oiling</td>
<td>Masters in Mental Health (Family Therapy). The University of Queensland (2015-2018)</td>
<td>Independent Mental Health Research Project-Family involvement in treatment of adults with eating disorders</td>
<td>Matthew Bambling</td>
</tr>
<tr>
<td>Madeleine Gardener</td>
<td>Master of Epidemiology</td>
<td>Child Maltreatment</td>
<td>Hannah Thomas, Holly Erskine, James Scott</td>
</tr>
<tr>
<td>Bridget Johnson</td>
<td>Scholarly project, RCANZCP</td>
<td>Optimising Psychiatric After-Hours Duty: the Implementation and Impact of a Short Cycle After-Hours Roster</td>
<td>George Bruxner, Sue Patterson</td>
</tr>
<tr>
<td>Joni Bennet</td>
<td>Masters of Mental Health Nursing. The University of Queensland</td>
<td>TBC</td>
<td></td>
</tr>
<tr>
<td>Ella Shinners</td>
<td>Psychology Honours, QUT</td>
<td>The Impact of Alcohol and Methamphetamine Campaigns on Calls to Queensland’s 24/7 Alcohol and Other Drug Helpline’</td>
<td>Hollie Wilson, Anthony Bligh, Melanie White</td>
</tr>
<tr>
<td>Madeleine Moore</td>
<td>Psychology Honours, QUT</td>
<td>Exploring Trends in Alcohol Use and Treatment Seeking via an Anonymous Alcohol and Drug Telephone Support Service: a Queensland Wide Study”</td>
<td>Hollie Wilson, Anthony Bligh, Melanie White</td>
</tr>
<tr>
<td>Elizabeth Ness McVie</td>
<td>PhD, The University of Queensland</td>
<td>The mental health court: Queensland’s unique system for determination of the insanity defence for 25 years.</td>
<td>Gerard Byrne</td>
</tr>
<tr>
<td>Tim Lowry</td>
<td>PhD, The University of Queensland</td>
<td>Threats, harassment and other problematic behaviours towards public office holders: The contribution of mental disorder</td>
<td>Gerard Byrne</td>
</tr>
<tr>
<td>Rachael Brimelow</td>
<td>PhD The University of Queensland</td>
<td>Management of affective and anxiety disorders in aged-care: identification, diagnosis and the impact on wellbeing through an e-health initiative for personal carers</td>
<td>Nadeeka Dissanayaka, Gerard Byrne and Judy Wollin</td>
</tr>
<tr>
<td>Ji Hyun (Julia) Yang</td>
<td>PhD, The University of Queensland</td>
<td>Markers and mechanisms of mild cognitive impairment in Parkinson’s disease</td>
<td>Gerard Byrne</td>
</tr>
<tr>
<td>Philip Mosley</td>
<td>PhD, The University of Queensland (2015-2020)</td>
<td>Impulsivity and caregiver burden after deep brain stimulation for Parkinson’s disease</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Bjorn Burgher</td>
<td>PhD, The University of Queensland (2016-2020)</td>
<td>Neuroinflammation and neurodegeneration in early psychosis: relationship to cognitive development in adolescence and early adulthood</td>
<td>Michael Breakspear, James Scott and Gerard Byrne</td>
</tr>
<tr>
<td>Jonathon Robinson</td>
<td>PhD, Queensland University of Technology (2015-2018)</td>
<td>Electroencephalographic responses to expectancy violation in object displays: intuitive physics predictions</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Saurabh Sonkusare</td>
<td>PhD The University of Queensland (2015-2018)</td>
<td>Examining cortical autonomic control using combined Transcranial Magnetic Stimulation (TMS) and Electroencephalography (EEG)</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Shrey Dutta</td>
<td>PhD, UQ, (2018-2021)</td>
<td>How brain dynamics emerge from energy constraints</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Thomas Dorfer</td>
<td>PhD, UQ (2018-2021)</td>
<td>Computational Models of Brain Network Dynamics</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Rhiannon Jeans</td>
<td>PhD, The University of Queensland (2016-2018)</td>
<td>Measures of whole-brain coherence during sleep and general anaesthesia in Drosophila</td>
<td>Michael Breakspear</td>
</tr>
<tr>
<td>Dagnachew Muliye Fetene</td>
<td>PhD</td>
<td>Maternal hypertension and child development outcomes</td>
<td>Rosa Alati, Abdullah Mamun, James Scott</td>
</tr>
<tr>
<td>Peter Carr</td>
<td>PhD, Griffith University (2013-2017)</td>
<td>Risk Factors for peripheral intravenous cannula insertion failure in the Emergency Department</td>
<td>Claire Rickard, Marie Cookevase, Niall Higgins, James Rippey</td>
</tr>
<tr>
<td>Jordan Laurie</td>
<td>PhD Queensland University of Technology</td>
<td>Non-contact vital signs assessment using robotic vision</td>
<td>Jonathan Roberts, Thierry Peynot, Oran Rigby, Niall Higgins</td>
</tr>
<tr>
<td>Leigh-Anne Ryan</td>
<td>Master of Clinical Psychology, USQ</td>
<td>Understanding frequent attendance to the emergency department: an investigation of psychological predictors in an Australian Hospital</td>
<td>Gavin Beccaria</td>
</tr>
<tr>
<td>Kate Gossip</td>
<td>PhD</td>
<td>Mental health services for young people with severe mental illness</td>
<td>James Scott, Holly Erskine</td>
</tr>
<tr>
<td>Matilda Mackay-Sim</td>
<td>Psychiatry Scholarly Project</td>
<td>Deficits in goal-directed action as a proxy marker for dopamine dysfunction in early psychosis and schizophrenia</td>
<td>James Scott, James Kesby</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amy Wong</td>
<td>PhD</td>
<td></td>
<td>Does cognitive functioning distinguish subjects with dissociative identity disorder from those with schizophrenia</td>
<td>James Scott</td>
</tr>
<tr>
<td>Gyanna Foy</td>
<td>Scholarly Project</td>
<td></td>
<td>Does the lymphocyte CD4/CD8 ratio predict treatment response in First Episode of Psychosis?</td>
<td>James Scott</td>
</tr>
<tr>
<td>Fiona Fairbrother</td>
<td>Scholarly Project</td>
<td></td>
<td>The association between lithium and hyperthyroidism: a systematic review</td>
<td>James Scott</td>
</tr>
<tr>
<td>Catherine Moores</td>
<td>4th Year Medical Student, Canada</td>
<td></td>
<td>Interventions for young people to support healthy relationships</td>
<td>James Scott, Emily Hielscher</td>
</tr>
<tr>
<td>Lori Matuschka</td>
<td>Master of Epidemiology</td>
<td></td>
<td>Help-Seeking Behaviour in Adolescents Who Experience Bullying Victimisation</td>
<td>Hannah Thomas, James Scott</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elke Perdacher</td>
<td>Lecturer</td>
<td>School of Criminology and Criminal Justice</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Edward Heffernan</td>
<td>Associate Professor Stream Head</td>
<td>School of Medicine Forensic Mental Health Group</td>
<td>The University of Queensland, Qld Centre Mental Health Research</td>
</tr>
<tr>
<td>Jane Phillips</td>
<td>Senior Lecturer</td>
<td>School of Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Carrick Anderson</td>
<td>Senior Lecturer</td>
<td>School of Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Carla Meurk</td>
<td>Honorary Senior Fellow, Principal Research</td>
<td>School of Public Health, Forensic Mental Health Group</td>
<td>The University of Queensland, Queensland Centre for Mental Health Research</td>
</tr>
<tr>
<td>Zara Samaraweera</td>
<td>Associate Lecturer-Registrar</td>
<td>School of Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>William Brennan</td>
<td>Program Lead</td>
<td>Master of Mental Health Nursing, Faculty of Health and Behavioural Sciences</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Anna Jenkins</td>
<td>Senior Lecturer</td>
<td>School of Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Bruce Hamilton</td>
<td>Guest Lecturer</td>
<td>Forensic Psychology</td>
<td>ACU (Australian Catholic University)</td>
</tr>
<tr>
<td>Elissa Waterson</td>
<td>Principal Research</td>
<td>Forensic Mental Health Group</td>
<td>Queensland Centre for Mental Health Research</td>
</tr>
<tr>
<td>Laura Ferris</td>
<td>Principal Research</td>
<td>Forensic Mental Health Group</td>
<td>Queensland Centre for Mental Health Research</td>
</tr>
<tr>
<td>Michael Breakspear</td>
<td>Co-ordinator</td>
<td>Program Mental Health Research</td>
<td>QIMR Berghofer Medical Research Institute (2009 – current)</td>
</tr>
<tr>
<td>Michael Breakspear</td>
<td>Adjunct Professor</td>
<td>School of Biomedical Sciences</td>
<td>Queensland University of Technology (2017-2020)</td>
</tr>
<tr>
<td>Michael Breakspear</td>
<td>Adjunct Professor</td>
<td>School of Psychiatry</td>
<td>University of Queensland (2011-current)</td>
</tr>
<tr>
<td>Michael Breakspear</td>
<td>NHMRC Principal Research Fellow</td>
<td></td>
<td>QIMR Berghofer Medical Research Institute (2017-2020)</td>
</tr>
<tr>
<td>Lisa Fawcett</td>
<td>Clinical Assoc Professor</td>
<td>School of Nursing</td>
<td>ACU (2014 – current)</td>
</tr>
<tr>
<td>Nathan Dart</td>
<td>Clinical Academic Fellow</td>
<td>School of Nursing</td>
<td>ACU (2014 – current)</td>
</tr>
<tr>
<td>Niall Higgins</td>
<td>Conjoint Senior Research Fellow</td>
<td>School of Nursing</td>
<td>QUT (2015 – current)</td>
</tr>
<tr>
<td>Sue Patterson</td>
<td>Principal Research Fellow</td>
<td>Mental Health</td>
<td>Metro North Mental Health</td>
</tr>
<tr>
<td>Sue Patterson</td>
<td>Associate Professor</td>
<td>School of Dentistry</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Sue Patterson</td>
<td>Associate Professor</td>
<td>Department of Applied Psychology</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Hollie Wilson</td>
<td>Visiting Fellow</td>
<td>School of Psychology and Counselling</td>
<td>Queensland University of Technology</td>
</tr>
<tr>
<td>Brett Emmerson</td>
<td>Professor</td>
<td>School of Clinical Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>James Scott</td>
<td>Practitioner Fellowship</td>
<td>Prevention and Management of Youth Mental Illness</td>
<td>National Health and Medical Research Council</td>
</tr>
</tbody>
</table>
2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warren Ward</td>
<td>Associate Professor</td>
<td>School of Clinical Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Gail Robinson</td>
<td>Associate Professor</td>
<td>Menzies Health Institute QLD</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Gail Robinson</td>
<td>Senior Lecturer</td>
<td>School of Medicine</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Andrew Teodorczuk</td>
<td>Associate Professor</td>
<td>Academic Lead Years 3 and 4 School of Medicine</td>
<td>Griffith University</td>
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</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed Heffernan, Fiona Davidson, Carla Meurk, Luke Hearne, Elissa Waterson</td>
<td>Stuart Kinner (Griffith University), Kimina Andersen</td>
<td>Involuntary Treatment Order National Benchmarking</td>
</tr>
<tr>
<td>Ed Heffernan, Bob Green, Jane Phillips, Zara Samaraweera</td>
<td>Bobbie Clugston, Carolina Ceron (High Secure Inpatient Service), Adam Griffin (Forensic Medical Service), C Gardner (QPS)</td>
<td>Family Business – improving and understanding the treatment of PTSD among incarcerated Aboriginal and Torres Strait Islander Women</td>
</tr>
<tr>
<td>Melanie Mitchell</td>
<td>Gavin Palk, David Kavanagh (QUT)</td>
<td>Mentally ill threateners: a review of mentally ill threateners; the characteristics of the threatening, the nature and context of the threat and the response of mental health staff to threats</td>
</tr>
<tr>
<td>Elke Perdacher, Ed Heffernan, Penny Dale</td>
<td>David Kavanagh (UQ), Jeanie Sheffield (UQ)</td>
<td>Stay Strong Plan – an evaluation of android Stay Strong Plan app with Aboriginal and Torres Strait Islander women in custody</td>
</tr>
<tr>
<td>Fiona Davidson, Jane Phillips, Ed Heffernan</td>
<td>Tony Butler (UNSW), David Greenberg (UNSW), Peter Conroy (QPS), Philip Burgess (UQ)</td>
<td>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</td>
</tr>
<tr>
<td>Fiona Davidson, Jane Phillips, Ed Heffernan</td>
<td>Tony Butler (UNSW), David Greenberg (UNSW), Philip Burgess (UQ)</td>
<td>The National Court Liaison Services Benchmarking Project</td>
</tr>
<tr>
<td>Ed Heffernan, Michelle Perrin, Fiona Davidson</td>
<td>Stuart Kinner (Griffith University), Bobbie Clugston</td>
<td>The National Prison Mental Health Benchmarking Project</td>
</tr>
<tr>
<td>Fiona Davidson, Ed Heffernan, Velimir Kovacevic, Bruce Hamilton, Elissa Waterson</td>
<td>Tony Butler (UNSW), David Greenberg (UNSW), Philip Burgess (UQ), Marshall Watson (SA Hth), Carolyn Dixon (J&amp;FMHN NSW), Adam Brett (WA), Maraea Handley (NT FMHS), Marita O’Connell (Tas Courts MH Program), Narain Nambiar (SA FMHS), Owen Samuels (ACT FMHS), Patrick Seal (Forensicare)</td>
<td>National Court Liaison Service Key Performance Indicators – the establishment of a nationally agreed approach to performance measurement for Australian Court Liaison Services</td>
</tr>
<tr>
<td>Tim Lowry, Bruce Hamilton, Annette Vasey</td>
<td>Bruce Watt (Bond University)</td>
<td>High risk psychotic phenomena – elusions involving themes of sexual assault</td>
</tr>
<tr>
<td>Ed Heffernan, Elissa Waterson, Darren Neillie, Penny Dale, Yasmine Muller, Carla Meurk, Laura Ferris</td>
<td>Collaborating: Qld Health, Qld Police Service, Qld Ambulance Service, Qld Mental Health Commission, Roses in the Ocean, Brisbane North Primary Health Network, Qld Alliance for Mental health</td>
<td>Partners in Prevention: Understanding and Enhancing First Responses to Suicide Crisis Situations</td>
</tr>
<tr>
<td>Ed Heffernan, Elissa Waterson, Darren Neillie, Carla Meurk</td>
<td>Office of Industrial Relations</td>
<td>Persistent complainants: training and support needs of the Office of Industrial Relations</td>
</tr>
<tr>
<td>Tim Lowry, Darren Neillie, Fiona Davidson</td>
<td>CFOS reports: referrer feedback survey</td>
<td></td>
</tr>
<tr>
<td>Tim Lowry, Darren Neillie, Fiona Davidson</td>
<td>CFOS consumer snapshot</td>
<td></td>
</tr>
<tr>
<td>Ed Heffernan, Tim Lowry, Jane Phillips, Elissa Waterson</td>
<td>Bobbie Clugston (MHAODB)</td>
<td>Mental Health Support of Police Negotiators Program</td>
</tr>
</tbody>
</table>
## 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed Heffernan, Elissa Waterson</td>
<td>Bobbie Clugston (MHAODB), Megan Steele (West Moreton HHSD)</td>
<td>Pathways for individuals with a mental illness who are the subject of police negotiator events</td>
</tr>
<tr>
<td>Penny Dale, Yasmin Muller, Ed Heffernan, Elissa Waterson</td>
<td>Megan Steele (West Moreton HHSD)</td>
<td>Indigenous Mental Health Intervention Project (IMHIP) evaluation</td>
</tr>
<tr>
<td>Bob Green, Darren Neillie, Fiona Davidson</td>
<td></td>
<td>Treatment pathways of persons found not criminally responsible due to mental disorder</td>
</tr>
<tr>
<td>Jennifer Wells, Melanie Mitchell, Tim Lowry, Darren Neillie</td>
<td>Megan Steele, Andrew Aboud, Tamara Smith, Darryn Collins, (West Moreton HHSD), David Kavanagh (QUT), Ian Garton</td>
<td>Evaluation of the Forensic Intervention Service</td>
</tr>
<tr>
<td>Elke Perdacher, Carla Meurk, Lisa Wittenhagen</td>
<td></td>
<td>e-Inside: Patient-facing e-Mental Health tools to support the wellbeing and mental health of male prisoners in a high security prison environment</td>
</tr>
<tr>
<td>Victoria Cullity</td>
<td>Sunanda Ghosh, Sue Patterson, Shane Reubgetz</td>
<td>Coping with change: a descriptive study of referral, access and care pathways to a Child and Youth Mental Health Service</td>
</tr>
<tr>
<td>Amanda Gatti</td>
<td>Amanda Gatti, Susan Patterson, Shane Reubgetz</td>
<td>Collaborative inquiry amongst AMYOS staff</td>
</tr>
<tr>
<td>John Kelly, Michelle Taylor, A Morphett, Hollie Wilson</td>
<td>Pamela Meredith</td>
<td>Analysis of the sensory profile of young people within an alcohol and drug treatment service</td>
</tr>
<tr>
<td>Lisa Fawcett, Nathan Dart, Niall Higgins</td>
<td>Thomas Meehan (West Moreton HHS), Theresa Green (QUT), Michael Kilshaw (TPCH), Debra Anderson (Griffith University)</td>
<td>Implementation of Safewards and BrØset to Secure Mental Health Rehabilitation Units</td>
</tr>
<tr>
<td>Niall Higgins</td>
<td>Claire Rickard (Griffith University), Robert Ware (UQ), Marcus Watson (RBWH)</td>
<td>Near infrared venous analysis: a trial of vessel finders versus standard technique for peripheral placement of intravenous catheters</td>
</tr>
<tr>
<td></td>
<td>Jordan Laurie (QUT), Jonathan Roberts (QUT), Thierry Peynot (QUT), Oran Rigby (QUT)</td>
<td>Non-contact vital signs assessment using robotic vision</td>
</tr>
<tr>
<td>Sue Patterson and Brett Emmerson</td>
<td>Nicole Brigg, Archana Pradhan(UQ), Pauline Ford (UQ) et al</td>
<td>Let’s Get Physical: 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</td>
</tr>
<tr>
<td>Sue Patterson, Jordan Duncan, Kylie Garrick</td>
<td>Analise O’Donovan (Griffith), Stephanie Donovan, Carmel Barry (MNMH), Richard Ollie (Griffith)</td>
<td>Promoting sustainable engagement: a mixed methods study of the work-lives, engagement and health of clinical staff working in mental health care environments</td>
</tr>
<tr>
<td>James Scott</td>
<td>Stephen Stathis, Cathy Mihalopoulos, Tiffany Au</td>
<td>Child MAUI (Multi-attribute utility instrument) Comparison Study</td>
</tr>
<tr>
<td>Sue Patterson and Brett Emmerson</td>
<td>Niall Higgins, Lisa Fawcett, Wilsen Drew et al.,</td>
<td>Implementation of the Queensland Health Smoking Cessation Clinical Pathway: a mixed methods evaluation of process and outcomes within Metro North Mental Health Services</td>
</tr>
<tr>
<td>Chris Randall, Sue Patterson, Warren Ward, Kylie Matthews</td>
<td>Jeanie Sheffield. (The University of Queensland)</td>
<td>Clinical outcomes and experience of a three-month intensive outpatient program for people with Eating Disorders: a mixed methods study to inform systematic quality improvement</td>
</tr>
<tr>
<td>Queensland Eating Disorders Service, Carmel Fleming</td>
<td>School of Nursing, Midwifery and Social Work. (The University of Queensland)</td>
<td>Family Inclusive Treatment in Eating Disorders: a stepped care approach to working with families of adults affected by eating disorders</td>
</tr>
<tr>
<td>Danielle Alchin, Sue Patterson, Brett Emmerson</td>
<td></td>
<td>An observational study of a contingency management intervention for a smoking cessation group program for people with a mental illness</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julia Crilly, Stuart Kinner, Gerry Fitzgerald, Marianne Wallis</td>
<td>Ed Heffernan</td>
<td>Improving the outcomes for people with acute mental illness in emergency departments</td>
</tr>
<tr>
<td>Anderson J</td>
<td>Niall Higgins, Gail Robinson</td>
<td>Screening for obstructive sleep apnoea in inpatients with schizophrenia: a feasibility study</td>
</tr>
<tr>
<td>Lee Martinez (University of South Australia)</td>
<td>Sue Patterson</td>
<td>Impact of participation in ‘Hearing Voices that are Distressing’ simulation workshops for South Australian rural undergraduate health science students and health workforce</td>
</tr>
<tr>
<td>Hannah Thomas, Holly Erskine, James Scott</td>
<td>Damian Santomauro, Alize Ferrari, Harvey Whiteford, Theo Vos</td>
<td>The inclusion of bullying as a risk factor in the Global Burden of Disease Study 2017 (GBD 2017)</td>
</tr>
<tr>
<td>Hannah Thomas, James Scott</td>
<td>Jason Connor, Jason Coates</td>
<td>Application of BCS-A</td>
</tr>
<tr>
<td>Holly Erskine, James Scott, Madeleine Gardner</td>
<td>Shelby Marrington, Greg Shuttlewood, Jake Najman, David McIntyre, Gail Williams, Abdullah Al Mamun, Alexandra Clavaroni, Rosa Alati,</td>
<td>Data linkage between MUSP and the National Death Index</td>
</tr>
<tr>
<td>Alex Ryan, James Scott, Judith Greer</td>
<td>Gail Robinson</td>
<td>Muscarinic antibodies in first episode psychosis</td>
</tr>
<tr>
<td>Holly Erskine, James Scott</td>
<td>Harvey Whiteford, Meaghan Enright, Bob Blum, Shoshanna Fine et al,</td>
<td>National Adolescent Mental Health Surveys (NAMHS), – Kenya – National Adolescent Mental Health Survey (K-NAMHS), – Indonesia – National Adolescent Mental Health Survey (I-NAMHS), – Vietnam – National Adolescent Mental Health Survey (V-NAMHS)</td>
</tr>
<tr>
<td>Holly Erskine, James Scott</td>
<td>Harvey Whiteford, George Patton</td>
<td>The natural history of disruptive behaviour disorders: trajectory, outcomes, and intervention</td>
</tr>
<tr>
<td>James Scott, Holly Erskine, Carina Capra, Madeleine Gardner</td>
<td>Andrew Martin</td>
<td>tDCS in Schizophrenia</td>
</tr>
<tr>
<td>James Scott, Holly Erskine, Carina Capra, Madeleine Gardner</td>
<td>Harvey Whiteford</td>
<td>Evaluation of Youth Residential Rehabilitation Units (YRRUs)</td>
</tr>
<tr>
<td>Lori Matuschka, James Scott</td>
<td>Harvey Whiteford, John McGrath</td>
<td>Collaboration with The Mary Foundation on bullying victimisation</td>
</tr>
<tr>
<td>James Scott, Holly Erskine, Hannah Thomas</td>
<td>Rosanna Pacella, Michael Dunne, David Finkelhor, Ben Matthews, Franziska Meinck, Daryl Higgins</td>
<td>The first national study of child maltreatment in Australia: prevalence, health outcomes, and burden of disease</td>
</tr>
<tr>
<td>James Scott, Judith Greer, CADENCE Group</td>
<td>Stefan Blum, Belinda Lennox, Brian O’Donoghue, Michael Benrol, Dan Siskind, Shuichi Suetani</td>
<td>Identifying and treating patients with psychosis who are positive to anti-neuronal antibodies</td>
</tr>
<tr>
<td>James Scott, Sarah Jhetam</td>
<td></td>
<td>Policy Considerations of E-Cigarette Availability in Australia</td>
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</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>(QFMH) Indigenous Mental Health Intervention Program</td>
<td>Winner – Complex Health Challenges</td>
<td>MNHHS Research Excellence Award</td>
</tr>
<tr>
<td>Laura Ferris</td>
<td>Travel Award</td>
<td>Margaret Foddy SASP</td>
</tr>
<tr>
<td>Justin Chapman</td>
<td>Winner – Individual Award</td>
<td>Queensland Mental Health Week Achievement Awards</td>
</tr>
<tr>
<td>Justin Chapman</td>
<td>Winner – Not-for-profit large award</td>
<td>Queensland Mental Health Week Achievement Awards</td>
</tr>
<tr>
<td>Philip Mosley</td>
<td>Winner – Postgraduate Student Award 2018</td>
<td>ASMR Queensland Health and Medical Research Awards</td>
</tr>
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</table>
### 2018 Research Awards and Achievements (cont)

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Roberts</td>
<td>Brain Sciences Award – best application in the field of Brain Sciences</td>
<td>Rebecca L. Cooper Foundation</td>
</tr>
<tr>
<td>James Scott</td>
<td>2018 Senior Research Award (March 2018)</td>
<td>Royal Australian and New Zealand College of Psychiatrists</td>
</tr>
</tbody>
</table>

### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed Heffernan, Elissa Watson, Fiona Davidson, Bobbie Clugston, Darren Neillie, John Tracey, Rebecca Soole, Dee Taylor-Dutton, Emma Bosley, Lesley Van Schoubroeck, Carmel Ybarlucea</td>
<td>Queensland Forensic Mental Health Service</td>
<td>Partners in Prevention: Understanding and Enhancing First Responses to Suicide Crisis Situations</td>
<td>Suicide Prevention Health Taskforce</td>
<td>$185,651</td>
<td>$556,850.00 (2016-2019)</td>
</tr>
<tr>
<td>Julia Crilly, Stuart Kinner, Gerry Fitzgerald, Ed Heffernan, Marianne Wallis</td>
<td>Queensland Forensic Mental Health Service</td>
<td>Improving Outcomes for people with acute mental illness in the emergency department: a data linkage study</td>
<td>NHMRC Project Grant</td>
<td>$62,867.50</td>
<td>$251,470.00 (2017-2020)</td>
</tr>
<tr>
<td>Elke Perdacher</td>
<td>Queensland Forensic Mental Health Service</td>
<td>Evaluation of the Stay Strong Plan app with Aboriginal and Torres Strait Islander men in prison</td>
<td>M Health, Queensland Health</td>
<td>$18,000</td>
<td>$36,000 (2018-2019)</td>
</tr>
<tr>
<td>Ed Heffernan</td>
<td>Queensland Forensic Mental Health Service</td>
<td>Mental health and the criminal justice system. Developing the evidence base to improve mental health and criminal justice outcomes for people with mental illness</td>
<td>NHMCR ECF Grant</td>
<td>$48,399</td>
<td>$193,596 (2018-2022)</td>
</tr>
<tr>
<td>Lisa Wright and Pamela Meredith</td>
<td>Metro North Mental Health</td>
<td>Investigating the factors affecting implementation of sensory modulation in inpatient mental health units</td>
<td>TPCH Foundation</td>
<td>$4,385.04</td>
<td>$9,983.48 (2018-2019)</td>
</tr>
<tr>
<td>Leigh Couch</td>
<td>MNMH Alcohol and Drug Service</td>
<td>Exploring the characteristics and outcomes of clients undertaking detox in Queensland Health alcohol and drug treatment facilities</td>
<td>TPCH Foundation</td>
<td>$4,906.66</td>
<td>9813.32 (2018-2019)</td>
</tr>
<tr>
<td>Luca Cocchi, Andrew Zalesky, P Fitzgerald, Michael Breakspear</td>
<td>Neuroscience</td>
<td>Personalised brain simulation for treatment of Obsessive-Compulsive Disorder</td>
<td>National Health and Medical Research Council Project Grant</td>
<td>$222,042</td>
<td>$666,128 (2018-2021)</td>
</tr>
<tr>
<td>Michael Breakspear and Christine Guo</td>
<td>Neuroscience</td>
<td>Commercialise multi-modal imaging and stimulation</td>
<td>Department of Science, Information Technology and Innovation</td>
<td>$375,000</td>
<td>$1,500,000.00 (2017-2020)</td>
</tr>
<tr>
<td>Michael Breakspear</td>
<td>Neuroscience</td>
<td>Brain Connectomics in Psychiatry</td>
<td>NHMRC Principal Research Fellowship</td>
<td>$152,769</td>
<td>$763,845 (2017-2021)</td>
</tr>
<tr>
<td>Michael Breakspear, Nicholas Martin, Gerard Byrne et al.,</td>
<td>Neuroscience/older persons</td>
<td>Prospective Imaging Study of Ageing: Genes, Brain and Behaviour (PISA)</td>
<td>NHMRC Grant</td>
<td>$1,293,009</td>
<td>$6,465,047 (2016-2020)</td>
</tr>
</tbody>
</table>
### 2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Breakspear, Sue Patterson, Justin Chapman</td>
<td>Metro North Mental Health/ QiMR</td>
<td>Trialling the feasibility and acceptability of physical activity self-monitoring and supervised exercise interventions for adults with severe mental illness*</td>
<td>RBWH and RBWH Foundation</td>
<td>$39,771</td>
<td>$39,771 (2018)</td>
</tr>
<tr>
<td>M Meinzer, A Martin, Michael Breakspear, L Cocchi, J Haueisen, A Hunold</td>
<td>Neuroscience</td>
<td>How does electrical stimulation affect brain networks</td>
<td>ARC Discovery Project</td>
<td>$125,841</td>
<td>$503,366.00 (2017-2020)</td>
</tr>
<tr>
<td>James Roberts, Michael Breakspear, Sampsa Vanhatalo, Paul Colditz</td>
<td>Neuroscience</td>
<td>Novel methods for early bedside detection and prognosis of preterm brain injury</td>
<td>National Health and Medical Research Council Project Grant</td>
<td>$210,293</td>
<td>$630,880.20 (2018-2020)</td>
</tr>
<tr>
<td>Christopher Rowe, Perminder Sachdev, Sharon Naismith, Michael Breakspear, et al.,</td>
<td>Neuroscience</td>
<td>The Australian Dementia Network (ADNeT): Bringing together Australia’a’s dementia stakeholders</td>
<td>National Health and Medical Research Council Boosting Dementia Research Grant</td>
<td>$3,600,000</td>
<td>$18 million (2018-2023)</td>
</tr>
<tr>
<td>James Roberts, Leonardo Gollo, Michael Breakspear</td>
<td>Neuroscience</td>
<td>Beyond the connectome: Modelling large-scale brain dynamics</td>
<td>National Health and Medical Research Council Project Grant</td>
<td>$139,949</td>
<td>$419,847.00 (2018-2020)</td>
</tr>
<tr>
<td>Kim Sander, Melissa Connell, John Kelly</td>
<td>MNMH Alcohol and Drug</td>
<td>Trauma Informed Care and Practice Project</td>
<td>Mental Health Alcohol and Other Drugs Branch, Clinical Excellence Division</td>
<td>$35,000</td>
<td>$70,000 (2018-2019)</td>
</tr>
</tbody>
</table>

### 2018 Research Publications

**Journal Articles:**

Journal Articles: (cont):


Journal Articles: (cont):


Journal Articles: (cont):


69. Innes NT, Clough BA, Day J & Casey LM. Can the Perceived Barriers to Psychological Treatment Scale be used to investigate treatment barriers among females with disordered and non-disordered eating behaviours? Psychiatry Research, (2018) 259(68) 68-76. doi:10.1016/j.psychres.2017.09.070


76. Lin HY, Cocchi, L, Zalesky A ...Breakspear M & Gau SSF (2018), Brain—behavior patterns define a dimensional biotype in medication-naive adults with attention-deficit hyperactivity disorder. Psychological medicine: 48 (14),2399-2408. doi:10.1017/S00332917180000281-10


83. Mosley PE, Breakspear M, Coyne T, Silburn P & Smith D. Caregiver burden and caregiver appraisal of psychiatric symptoms are not modulated by subthalamic deep brain stimulation for Parkinson’s disease. NPJ Parkinsons Dis, (2018) 4:12


Plana-Ripoll O, ... Scott JG, ... McGrath JJ. The pervasive nature of comorbidity within mental disorders: a comprehensive, nationwide cohort study JAMA Psychiatry, (2018) (in press)


Roberts JA & Breakspear M. Synaptic assays: using biophysical models to infer neuronal dysfunction from non-invasive EEG. Brain, (2018) 141(6), 1583-1583


Shine JM & Breakspear M. Understanding the Brain, By Default. Trends Neuroscience, (2018) 41(5), 244-247


Journal Articles: (cont):


Book and Chapters:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

1. Davidson F. Results of the national mental health court liaison services benchmarking project. NHMRC Centre for Research Excellence in Offender Health Annual Symposium. Sydney


3. Heffernan E. Meeting Wider needs in a Mental Health Crisis. Australasian College for Emergency Medicine’s (ACEM) first Mental Health in the Emergency Department Summit. Melbourne


8. Power M. Recent developments in supporting victims of serious violence in forensic mental health systems, Mental Health Review Tribunal Masterclass, Brisbane. 17 October 2018

9. Power M. International innovations in the use of restorative practice in forensic mental health, State-wide Forensic Psychiatrists Professional Development session, Brisbane, 22 May 2018

Invited Speaker: (cont):

11. Scott JG. Managing Psychosis in Youth. Queensland Faculty of Child and Adolescent Psychiatry Conference Brisbane, Australia
12. Scott JG. Neuronal antibodies in psychosis: what psychiatrists need to know. Tasmanian Branch of the RANZCP, Hobart, Australia. 19 September 2018
15. Scott JG. Clinical dilemmas in anti-neuronal antibody positive patients with psychosis. Australian Psychosis Conference, Sydney, Australia. 14-16 September 2018
16. Scott JG. The clinical management of ADHD and psychosis. Australian ADHD Professionals Association 2nd Annual Conference, Sydney, Australia. 28 July 2018
17. Scott JG. The prevalence of anti-neuronal antibodies in patients admitted with first episode psychosis and their clinical outcomes. University of Queensland Centre for Clinical Research Seminar, Brisbane, Australia. 18 April 2018
18. Scott JG. Atypical antipsychotics and quality of life in people living with schizophrenia. Royal Australian and New Zealand College of Psychiatrist Congress, Auckland, New Zealand. May 13-17, 2018

Oral Presentations:

2. Baker M & Cave L. Adventures in clinical facilitation: Supporting graduate mental health nurses in practice. ACMHN 44th International Mental Health Nursing Conference, Cairns, Australia, 24-26 October 2018
4. Bicker S & Holley S. Thriving in a challenging healthcare landscape: The role of mental health occupational therapy clinical practice collaborative. Occupational Therapy Australia NT-QLD Regional Conference, Surfers Paradise, Australia, 26-27 October 2018
5. Bicker S. Evaluation of the establishment of an occupational therapy assessment clinic in Metro North Mental Health Occupational Therapy Australia NT-QLD Regional Conference Occupational Therapy Australia NT-QLD Regional Conference, Surfers Paradise, Australia, 26-27 October 2018
7. Breakspear M. Failure to excite the second mode! Incomplete cortical phase transitions during active sleep in preterm neonates", Brain Connectivity Workshop (BCW 2018), Stanford University, USA 22-29 June 2018
8. Breakspear M. Brain Dynamics: on Networks, Modes and Waves. Research Centre Translational Neuroscience Seminar, Department of Neurology, Jhannes Gutenberg University, Mainz, Germany, September, 2018
9. Breakspear M. Failure to excite the second mode! Incomplete cortical phase transitions during active sleep in preterm neonates. Max Planck Institute for Metabolism Research Seminar, Cologne, Germany, September 2018
10. Breakspear M. Challenges and opportunities for human brain mapping/neuroimaging research in Australia” 1st Organisation Human Brain Mapping Australian Chapter Symposium, Florey Institute of Neuroscience and Mental Health, Melbourne, 12 October 2018
11. Breakspear M. Metastable brain waves. The 11th Australasian Workshop on Neuro-Engineering and Computational Neuroscience (NeuroEng 2018), University of Sydney, Sydney. 27-29 November 2018
12. Breakspear M. Computational Psychiatry The 38th Annual Scientific Meeting of the Australasian Neuroscience Society, Brisbane. 3-6 December 2018
15. Cartwright H & Turrell P. Group supervision with graduates: A three year experience. ACMHN 44th International Mental Health Nursing Conference, Cairns, Australia, 24-26 October 2018
17. Connell M & Scott JG. Voices and visions in the general population: exploring the influence of appraisals on distress. Australian Psychosis Conference, Sydney, Australia. 14-16 September 2018
18. Connell M. Beyond medication: Supporting people to live with their voices. Queensland Faculty of Child and Adolescent Psychiatry Conference, Brisbane. 8 September 2018
Oral Presentations: (cont):

19. Daglish MRC. The Psychiatrist as accidental drug dealer. Australian & New Zealand Association of Psychiatry, Psychology & Law Qld Branch Annual Dinner, Brisbane, May 2018

20. Daglish MRC. Drugs of Abuse and Human Brain. DABIT-CL Connect Conference, Brisbane June 2018


22. Daglish MRC. Rubin's Vase: treating alcohol and mental health co-morbidity. Lundbeck Institute: Schizophrenia Weekend Seminar. Melbourne, August 2018

23. Daglish MRC. Pregabalin & Opioids: Lethal Interaction? Focus on Pain Group, Pain Conference, Brisbane October 2018


25. Daglish MRC. Optimising Treatment. Indivior Sponsored Seminar. APSAD Conference, Auckland, New Zealand. 4-7 November 2018


27. Dalton J. Eating Disorders in Acute Care: Empowering Enrolled Nurses. Enrolled Nurses – Acute Care Conference, Brisbane, August 23-24, 2018

28. Dalton J. The diet that triggered an eating disorder? Discussing diet and exercise safely. Linking Diet with Disease AUSMED Conference, Brisbane June 18-19, 2018

29. Dalton J. The National Agenda for Eating Disorders. The Australian College of Mental Health Nurses Queensland Branch Therapy Bytes Workshop, Brisbane July 21, 2018


31. Davidson F. Results of the national mental health court liaison services benchmarking project. NHMRC Centre for Research Excellence in Offender Health Annual Symposium. Sydney


33. Duncan S. Out of the Clinic and Into the Paddock: Equine Psychotherapy. ACMHN's 16th Consultation Liaison Special Interest Group/7th Perinatal and Infant Mental Health Special Interest Group Annual Conference, Brisbane. 7 June 2018


36. Flaws D. Predicting delirium. Junior Doctor Conference, Brisbane, 24 June 2018


40. Green B. Treatment pathways among persons found not criminally responsible. 38th Australian and New Zealand Association of Psychiatry, Psychology and Law Annual Congress. Tasmania, Australia. 21-24 November 2018

41. Hall K, Hatch K & Newell J. Listening to learn: A unique opportunity to read, reflect and respond. ACMHN 44th International Mental Health Nursing Conference, Cairns, Australia, 24-26 October 2018

42. Hatch K & Boyle C. Skill check your clinical supervision practice. Pre-conference workshop. Australian Clinical Supervision Conference, Melbourne, Australia. 22-24 May 2018

43. Hatch K. Quality or quantity? The Challenges of supporting access to nursing clinical supervision within a large metropolitan mental health service. Australian Clinical Supervision Conference, ANMF House Melbourne Victoria, 22-24 May 2018


Oral Presentations: (cont):

49. Louttit T. Diabetes and Eating Disorders. AUSMED Nurses Conference, Brisbane, May 29, 2018

50. Mackle T. Anti-what? Common psychotropic prescribing practices. Australian College of Nurse Practitioners Prescribing Symposium, Brisbane, Australia. 16 February 2018


52. Matthews K, Hill J, Jeffrey S, Patterson S, Davis A, Ward W, Palmer M & Capra S. A higher energy refeeding protocol does not increase adverse outcomes in adult patients with eating disorders. Dietitians Association of Australia. May 2018

53. Matthews K, Hill J, Jeffrey S, Patterson S, Davis A, Ward W, Palmer M, Capra S. Medically compromised, extremely underweight adult patients with eating disorders can be safely refeeding using a higher energy feeding protocol. Australia and New Zealand Academy for Eating Disorders National Conference, Melbourne. August 2018

54. Meurk C. Partners in Prevention: Understanding and Enhancing First Responses to Suicide Crisis Situations. Queensland Centre for Mental Health. Wacol, Brisbane. 31 May 2018


57. Moss K, Meurk C, Steele M & Heffernan E. The Physical Health, Activity and Self-Identified Barriers to Exercise of Patients with Severe Mental Illness Residing in a Secure Facility. West Moreton HHS Research Day Program. Brisbane. 6 September 2018

58. Moudgil V. Closing the gap for People with Mental Illness. The Royal Australian and New Zealand College of Psychiatrists 2018 Congress. Auckland, New Zealand. May 13-17, 2018

59. Moudgil V. Reproductive and sexual health in women with mental disabilities. The Royal Australian and New Zealand College of Psychiatrists 2018 Congress, Auckland, New Zealand, May 13-17, 2018


61. Perera C, Bruxner G & Patterson S. Use of valproate and carbamazepine in childbearing age women with bipolar affective disorder. Routine practice in a large Australian Public mental health service district. The Royal Australian and New Zealand College of Psychiatrists Congress. Auckland, New Zealand. May 13-17, 2018

62. Perera C, Bruxner G & Patterson S. Safe and on time: an Audit of Lithium prescribing practices across a major Australian mental health service district. The Royal Australian and New Zealand College of Psychiatrists 2018 Congress. Auckland, New Zealand. May 13-17, 2018

63. Scott JG. Rational prescribing of antipsychotic medication in young people with early psychosis. Tasmanian Trainees in Psychiatry, Hobart, Australia. 19 September 2018

64. Scott JG. Testing for antineuronal antibodies in patients with psychosis. Statewide Senior Leadership Meeting for the Qld Mental Health, Alcohol and other Drug Services, Brisbane, 13 September 2018

65. Scott JG. A systematic review and critical appraisal of the association between prescribed stimulants for ADHD and risk of psychosis. The Royal Australian and New Zealand College of Psychiatrists 2018 Congress. Auckland, New Zealand. May 13-17, 2018

66. Scott JG. Anti-neuronal antibodies and psychosis: what psychiatrists need to know. Royal Australian and New Zealand College of Psychiatrist Congress, Auckland, New Zealand. May 13-17, 2018


68. Scott JG. The prevalence and treatment outcomes of anti-neuronal antibody positive patients admitted with first episode of psychosis. 14th International Congress of Neuroimmunology, Brisbane. 27-31 August 2018


71. Thomas H, Ahmadabadi Z, Najman J...Scott JG. Adolescent bullying victimisation and risk of intimate partner violence in early adulthood: A prospective follow-up study. 33rd World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professionals, Prague. 23-27 July 2018


74. Wels J. Anything is possible: increasing the odds in forensic therapy part 2. 38th Australian and New Zealand Association of Psychiatry, Psychology and Law Annual Congress. Tasmania, Australia. 21-24 November 2018

75. White A, Scott JG, Thomas H. Chronic physical illness in childhood and adolescence and the association with mental illness. Faculty of Child and Adolescent Psychiatry Conference of the Royal Australian and New Zealand College of Psychiatrists, Perth, Australia. 17 October 2018
Oral Presentations:  (cont):

76. White A, Scott JG & Thomas H. Chronic physical illness in childhood and adolescence and the association with mental illness. Royal Australian and New Zealand College of Psychiatrists Congress, Auckland. 17 May 2018

77. Williams S, Ballard E, Bruxner G & Kothari A. Prescribing antidepressants and anxiolytics to pregnant women: the perception of risk of fetal teratogenicity amongst Australian specialists and trainees. Royal College of Obstetricians and Gynaecologists World Congress, March 2018

78. Wright L, Bennett S & Meredith P. Sensory Modulation approaches in mental health care: investigating the factors influencing implementation in inpatient mental health units. Occupational Therapy Australia NT-QLD Regional Conference, Surfers Paradise, Australia, 26-27 October 2018


Poster Presentations:

80. Carr PJ, Higgins NS, Cooke ML, Mihala G & Rickard CM. Vascular access specialist teams for insertion of and prevention of vascular access device failure: a Cochrane Systematic Review. 5th World Congress on Vascular Access, Copenhagen Denmark, June 20-22, 2018

81. Daglish MRC, Reilly S & Hayllar J. Do Dependent Codeine Users Need Lower Doses of Buprenorphine Maintenance? ASPAD, Auckland, New Zealand. 4-7 November 2018

82. Dalton J. A hopeful and helpful letter. Nursing and Midwifery Leadership Conference, Brisbane. 1 March 2018


84. Hielscher E, DeVylder J., Connell M, Hasking P, Martin G, & Scott JG. Do hallucinations predict the transition from suicidal thoughts to attempts? Results from an Australian longitudinal cohort study. Schizophrenia International Research Society, Florence, Italy. 4 April 2018

85. Higgins NS, Robinson G, Burke A, Anderson J & Curtin D. Screening for sleep disordered breathing in a mental health population. ACMHN 44th International Mental Health Nursing Conference, Cairns, Australia, 24-26 October 2018

86. Koussis N . Breakspear M, Guo C. Dynamics on Epileptic Networks Informed by Stereotactic EEG, Imaging @ Brisbane Conference, Brisbane Convention Centre, Brisbane

87. Lv J, van der Meer J, Breakspear M, Guo C. N-way Decomposition: Towards Linking Concurrent EEG and FMRI Analysis during Natural Stimulus. Imaging @ Brisbane Conference, Brisbane Convention Centre, Brisbane


89. Matthews K, Hill J, Jeffrey S, Patterson S, Davis A, Ward W, Palmer M & Capra S. A higher energy refeeding protocol does not increase adverse outcomes in adult patients with eating disorders. RBWH Healthcare Symposium. September 2018

90. Matthews K, Hill J, Jeffrey S, Patterson S, Davis A, Ward W, Palmer M & Capra S. A higher energy refeeding protocol does not increase adverse outcomes in adult patients with eating disorders. QLD Dietitian’s Association of Australia Symposium. November 2018

91. Perera C, Patterson S & Bruxner G. Polypharmacy and Guidelines: An audit of prescribing patterns of psychotropics in a major Australian mental health services district. The Royal Australian and New Zealand College of Psychiatrists 2018 Congress. Auckland, New Zealand. May 13-17, 2018

92. Ryan A, Scott JG & Greer J. Anti-Muscarinic Acetylcholine Receptor Antibodies in Schizophrenia. 14th International Congress of Neuroimmunology, Brisbane, Australia. 27-31 August 2018


Other Communications and Outputs:


11. Scott JG. (2018). “Medical researchers fear ADHD drugs could lead to psychotic events”. Brisbane Courier Mail (16 May)
14. Scott JG. (2018). “What to do if your child is a cyberbully?”, ABC Statewide Drive NSW, Interview with Fiona Wyllie (6 Feb)

Reports:
NURSING AND MIDWIFERY SERVICES
Nursing and Midwifery services are a shining example of the effort and commitment that is necessary to ensure high quality research outcomes. Our ongoing focus is to strengthen and grow a research culture, ensuring sustainability into the future. This is achieved through our mentorship opportunities including the employment of research nurses on clinical trials and studies; as well as the one-on-one ‘drop in’ research support to help nurses undertake their own research and work alongside world class researchers at Royal Brisbane and Women’s Hospital.

Nursing and Midwifery research continues to have a strong focus on improving patient outcomes by producing best evidence to support healthcare delivery. Nurse-led research projects conducted at the RBWH and in partnership with our collaborating institutions continue to shape evidence-based practice both nationally and internationally. This important research has been published in several high-quality nursing and medical journals, including the Lancet, the Journal of Hospital Medicine, and the Cochrane Library.

2018 saw the retirement of Professor Joan Webster, who has been the Director, Nursing Research since 1991. We would like to express our sincere gratitude to Joan for success in providing a strong foundation for our positive nursing and midwifery research culture. As a result of Joan’s leadership, mentorship, positive role modelling and education, many nurses and midwives have begun their own academic and research pursuits.

2018 was a fine example of the ongoing efforts of our researchers, and I am sure 2019 will continue to expand and embed research within Nursing and Midwifery. As the Executive Director Nursing and Midwifery, I would like to congratulate all our dedicated Nursing and Midwifery Researchers and all of those who assisted in making what we have achieved possible in 2018. I look forward to the next exciting chapter of our wonderful journey.
Nursing and Midwifery Research Centre

We have again completed a very successful year in terms of research outputs with 26 published papers, 14 conference presentations and a total of $1,312,107.46 in competitive grant funding. We currently have 37 active research projects, three of which are NHMRC funded (the Dressing trial, evaluating the effectiveness of negative pressure wound therapy on clean surgical wounds to prevent surgical site infection; and the PISCES trial, evaluating various central line dressings and devices to prevent catheter failure from any cause; and the ENCORE trial, Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an evidence based core assessment protocol).

Research support is provided through the Evidence-Based Practice program; which continues to attract a great deal of backing from nurse/midwifery managers; who need to adjust rosters to enable staff to be released for 1-day/week for 12 weeks. Furthermore, the new 'mentoring' program, offers one-to-one research support for nurses and midwives who are keen to undertake a research study or a practice improvement project. Support is provided for the full spectrum of research activity, from refining a research idea into a researchable question; literature searching; protocol development; research design; obtaining Ethics approval; data collection and analysis; and publishing. A total of 19 higher research-degree students are being supervised, primarily by Professors Fiona Coyer and Theresa Green.

Staff from the unit have also won numerous awards for research excellence this year. For example, Professors Fiona Coyer and Theresa Green won QUT Vice Chancellors awards for Excellence for their research professorial units; Nicole Marsh won the Australian College of Nursing’s Research award and the Menzies Health Institute Queensland ‘Excellence in Publishing Award’. Other awards included ‘Outstanding Leadership Award’ (Professor Joan Webster); and the Cecilia Brazil Research Award (Nicole Marsh and Joan Webster).

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.) University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hajar Alasmari</td>
<td>PhD, Queensland University of Technology (2012-2018)</td>
<td>Examining Intensive Care Nurses’ Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Sonia Hines</td>
<td>PhD, Queensland University of Technology</td>
<td>An educational intervention to improve nurses’ research literacy</td>
<td>Prof Joanne Ramsbotham, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Sandra Johnston</td>
<td>PhD, Queensland University of Technology</td>
<td>Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education</td>
<td>Prof Fiona Coyer, Prof Robyn Nash</td>
</tr>
<tr>
<td>Lianne Dalgleish</td>
<td>PhD, Queensland University of Technology</td>
<td>The role of microcirculatory dysfunction and skin breakdown in the critically ill</td>
<td>Prof Fiona Coyer, Dr Jill Campbell, Dr Kathy Finlayson, Prof Andre VanZundert</td>
</tr>
<tr>
<td>Adrianna Hada</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Transforming patient outcomes through improved and effective nursing clinical handover</td>
<td>Prof Fiona Coyer, Dr Leanne Jack</td>
</tr>
<tr>
<td>Paul Jarrett</td>
<td>PhD, Queensland University of Technology (2017-2021)</td>
<td>Administration of antibiotics in the intensive care unit</td>
<td>Prof Fiona Coyer, Prof Sam Keogh, Prof Jason Roberts</td>
</tr>
<tr>
<td>Anthony Batterbury</td>
<td>PhD, Queensland University of Technology (2018-2021)</td>
<td>How sick is too sick and how heavy too heavy? A mixed method study to understand clinical acuity and dependence to define thresholds for escalation or resource mobilisation</td>
<td>Prof Fiona Coyer, A/Prof Clint Douglas</td>
</tr>
<tr>
<td>Hannauh Rheault</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: a mixed method study</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
</tr>
<tr>
<td>Leanne Stone</td>
<td>Doctor Health Science, Queensland University of Technology (2014-2019)</td>
<td>Comparing &quot;Magnet&quot; attributes in nursing between Australia and the United States</td>
<td>Prof Fiona Coyer, Prof Ray Chan, Prof Alexandra McCarthy</td>
</tr>
<tr>
<td>Bryan Gregory</td>
<td>PhD, Queensland University of Technology (2018-2022)</td>
<td>The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury</td>
<td>Prof Fiona Coyer, Prof Jason Roberts, Prof Ann Bonner</td>
</tr>
<tr>
<td>Jessica Ingleman</td>
<td>Masters of Applied Science (Research), Queensland University of Technology (2016-)</td>
<td>Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)</td>
<td>Prof Fiona Coyer, Dr Christina Parker</td>
</tr>
</tbody>
</table>
Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>David McIntyre</td>
<td>PhD, Queensland University of Technology (2016-)</td>
<td>Developing and validating haemodialysis nurse-sensitive indicators</td>
<td>Prof Ann Bonner, Prof Fiona Coyer</td>
<td></td>
</tr>
<tr>
<td>Tain Lloyd</td>
<td>Master of Applied Science (Research), Queensland University of Technology (2016-)</td>
<td>Investigation of Chronic Kidney Disease and Stroke Development</td>
<td>Prof Ann Bonner, <strong>Prof Theresa Green</strong>, Dr. Louise Purcell</td>
<td></td>
</tr>
<tr>
<td>Eric Tanlaka</td>
<td>PhD, University of Calgary (2016-)</td>
<td>The impact of wait times on outcomes of stroke rehabilitation</td>
<td>Prof Kathryn King-Shier, <strong>Prof Theresa Green</strong></td>
<td></td>
</tr>
<tr>
<td>Cheryl Blaber</td>
<td>Masters of Applied Science (Research), Queensland University of Technology</td>
<td>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</td>
<td><strong>Prof Theresa Green</strong>, Dr. John Rosenberg, Dr. Jenny Fox</td>
<td></td>
</tr>
<tr>
<td>Pauline Nicholas</td>
<td>Masters of Applied Science (Research), Queensland University of Technology</td>
<td>Using brain training to improve cognition of patients on dialysis</td>
<td>Prof Ann Bonner, <strong>Prof Theresa Green</strong>, Prof Theresa Green</td>
<td></td>
</tr>
<tr>
<td>Lan Van Huong</td>
<td>Doctor of Philosophy</td>
<td>Exploring of family support for people receiving haemodialysis therapy in Vietnam</td>
<td>Prof Ann Bonner, <strong>Prof Theresa Green</strong></td>
<td></td>
</tr>
<tr>
<td>Nicole Marsh</td>
<td>PhD, Griffith University</td>
<td>Prevention of peripheral intravenous catheter failure</td>
<td>Prof Claire Rickard, Prof Marie Cooke, <strong>Prof Joan Webster</strong></td>
<td></td>
</tr>
<tr>
<td>Amanda McKie</td>
<td>MPhil, QUT</td>
<td>Sexual dysfunction in patients with CKD</td>
<td>Prof Ann Bonner, <strong>Prof Theresa Green</strong></td>
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</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emily Larsen</td>
<td>Project Manager/ Honorary Research Fellow</td>
<td>Numerous Vascular Access Trials</td>
<td>Griffith University (2017-2020)</td>
</tr>
<tr>
<td>Julie Flynn</td>
<td>Project Manager</td>
<td>Numerous Vascular Access Trials</td>
<td>Griffith University (2011 – current)</td>
</tr>
<tr>
<td>Claire Rickard</td>
<td>Honorary Research Fellow</td>
<td>Numerous Vascular Access Trials</td>
<td>Griffith University (2017-2020)</td>
</tr>
<tr>
<td>Amy Spooner</td>
<td>Honorary Research Fellow</td>
<td>Cancer Care Research</td>
<td>QUT (2017-2020)</td>
</tr>
<tr>
<td>Amanda Ullman</td>
<td>Honorary Research Fellow</td>
<td>Numerous Vascular Access Trials</td>
<td>Griffith University (2017-2020)</td>
</tr>
<tr>
<td>Anne Bonner</td>
<td>Honorary Research Fellow</td>
<td>Numerous Renal projects – please refer to Internal Medicine Research Report</td>
<td>QUT (2017-2020)</td>
</tr>
<tr>
<td>Jo Wu</td>
<td>Honorary Research Fellow</td>
<td>Cardiac research</td>
<td>University of Sunshine Coast (2017-2020)</td>
</tr>
<tr>
<td>Samantha Keogh</td>
<td>Honorary Research Fellow</td>
<td>Numerous Vascular Access Trials</td>
<td>QUT (2016-2019)</td>
</tr>
<tr>
<td>Amanda Corley</td>
<td>Honorary Research Fellow</td>
<td>Critical Care Research; Vascular Access Trials</td>
<td>Griffith University (2017-2020)</td>
</tr>
<tr>
<td>Carol Reid</td>
<td>Honorary Research Fellow</td>
<td>No current active projects with Nursing Services</td>
<td>Griffith University (2016-2019)</td>
</tr>
<tr>
<td>Gillian Ray-Barruel</td>
<td>Honorary Research Fellow</td>
<td>Vascular Access Trials</td>
<td>Griffith University (2018-2021)</td>
</tr>
<tr>
<td>Carol Windsor</td>
<td>Honorary Research Fellow</td>
<td>Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of evidence-based nursing core assessment</td>
<td>QUT (2016-2019)</td>
</tr>
<tr>
<td>Monica Stankiewicz</td>
<td>Honorary Research Fellow</td>
<td>No current active projects with Nursing Services</td>
<td>Redcliffe Hospital (2017-2020)</td>
</tr>
<tr>
<td>Name</td>
<td>Type of Fellowship</td>
<td>Research Program</td>
<td>University (years)</td>
</tr>
<tr>
<td>------------------</td>
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<td>-------------------</td>
</tr>
<tr>
<td>Tiffany Harris-Brown</td>
<td>Honorary Research Fellow</td>
<td>Infection Control</td>
<td>UQ (2018-2021)</td>
</tr>
<tr>
<td>Karen New</td>
<td>Honorary Research Fellow</td>
<td>Women’s and Newborn Services</td>
<td>UQ (2018-2021)</td>
</tr>
<tr>
<td>Jane-Louise Cook</td>
<td>Project Manager</td>
<td>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. Translating evidenced-based pressure injury prevention into the intensive care environment: the SUSTAIN trial</td>
<td>QUT (2014-2018)</td>
</tr>
<tr>
<td>Anna Doubrovsky</td>
<td>Project Manager</td>
<td>Efficacy of Incontinence-Associated Dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial.</td>
<td>QUT (2016-2018)</td>
</tr>
<tr>
<td>Fiona Coyer</td>
<td>Visiting Professor</td>
<td>Institute for skin integrity and infection prevention</td>
<td>University of Huddersfield (2016 – current)</td>
</tr>
</tbody>
</table>
| Theresa Green    | Adjunct Professor, Visiting Research Fellow, Fellow of the American Heart Association | Neurology/Neurosurgical Nursing Research | 1. University of Calgary, Faculty of Nursing (2015-present) and Hotchkiss Brain Institute Alberta Health Services, Department of Clinical Neurosciences (2013 – present)  
2. Gold Coast University Hospital (2017-2020)  
3. AHA (2017 – current) |
| Joan Webster     | Adjunct Associate Professor, Professor, Associate Professor, Honorary Visiting Professor | Nursing Research | 1. School of Nursing, UQ 2001 – current  
2. School of Nursing and Midwifery, Griffith University  
3. School of Nursing and Midwifery, University of Queensland  
4. The University of Manchester |
| Alanna Geary     | Adjunct Associate Professor, Adjunct Associate Professor, Adjunct Professor | Nursing Research ENCORE Trial | 1. School of Nursing Queensland University of Technology (2010 – current)  
2. School of Nursing and Midwifery Griffith University (2015 – current)  
3. School of Nursing and Midwifery University of Queensland (2017 – current) |
| Robyn Fox        | Adjunct Associate Professor, Adjunct Associate, Professor Clinical Associate Professor | Nursing Research ENCORE Trial | 1. School of Nursing Queensland University of Technology (2009 – current)  
2. School of Nursing and Midwifery University of Queensland (2017 – current)  
3. Australian Catholic University (2012 – current) |
| Catriona Booker  | Clinical Associate Professor, Clinical Fellow | Nursing Research ENCORE Trial | 1. Queensland University of Technology (2018 – current)  
2. Australian Catholic University (2012 – current) |
<table>
<thead>
<tr>
<th>Research Project Title</th>
<th>Collaborative Researchers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; The Distinct pilot randomised control trial</strong></td>
<td>Prof Fiona Coyer (Nursing Research and Critical Care), Jill Campbell (Skin Integrity), Anna Doubrovsky (QUT)</td>
</tr>
<tr>
<td><strong>Biochemical characteristics and healing rates of medical device-related pressure Injuries (the MEDICI study); a prospective observational pilot study</strong></td>
<td>Prof Fiona Coyer (Nursing Research and Critical Care), Tony Parker (QUT), Jill Campbell (Skin Integrity), Anna Doubrovsky (QUT)</td>
</tr>
<tr>
<td><strong>Intensive Care Point of Care Testing for Arterial Gas Analyses: the INCEPT audit</strong></td>
<td>Prof Fiona Coyer (Nursing Research and Critical Care), Stacey Watts (ICU), Dr Jayesh Dhani (ICU), Anna Doubrovsky (QUT), Prof Samantha Keogh, QUT</td>
</tr>
<tr>
<td><strong>Characteristics of physical activity required to elevate circulating neuroprotective LG3 peptide as a novel stroke therapy</strong></td>
<td>Prof Theresa Green (Nursing Research and Neuro), Dr David Rosengren (Emergency Medicine), Kevin Clarke (MNHIHS Nsg Admin), Kerrie Gillespie (QUT), Bernd Ploderer (QUT)</td>
</tr>
<tr>
<td><strong>Better Individualised Stroke Care Using Technology (BISCUT)</strong></td>
<td>Prof Theresa Green (Nursing Research and Neuro), Dr Anna Farrell (RBWH/SLP), Tara Hormann (RBWH/Stroke), Jennyfer Tayler (QUT), Bernd Ploderer (QUT)</td>
</tr>
<tr>
<td><strong>Aphasia Communication App</strong></td>
<td>Theresa Green (Nursing Research and Neuro), Bernd Ploderer (QUT), Anna Farrell (Speech Pathology), Tara Hormann (Neurology)</td>
</tr>
<tr>
<td><strong>StrokeAssist aphasia app evaluation</strong></td>
<td>Theresa Green (Nursing Research and Neuro), B Ploderer (QUT)</td>
</tr>
<tr>
<td><strong>RELIABLE (RELiable Intravenous Access By Line Experts)</strong></td>
<td>Nicole Marsh (Nursing Research), Prof Joan Webster (Nursing Research), Prof Claire Rickard (Griffith), Marie Cooke (Griffith), Emily Larsen (Griffith), Sue Cadigan (Surgical)</td>
</tr>
<tr>
<td><strong>Hospital In The Home (HITH) – Management of Peripherally Inserted Central Catheters a retrospective cohort study</strong></td>
<td>Nicole Marsh (Nursing Research), Emily Larsen (Griffith), Sam Tapp (HITH), Prof Claire Rickard (Griffith)</td>
</tr>
<tr>
<td><strong>Adding negative pressure to improve healing (the DRESSING trial)</strong></td>
<td>Prof Joan Webster (Nursing Research), Brigid Gillespie (Griffith), Wendy Chaboyer (Griffith), David Elwood (Griffith), Helen Stapleton (UQ), Jennifer Whitty (UQ), Lukman Thalib (Kuwait University), Nicky Cullum (Uni of Manchester), Margarette Somerville (Nursing Research), Deborah Birthisel (Nursing Research)</td>
</tr>
<tr>
<td><strong>Secure My Intravascular Line Effectively (SMILE)</strong></td>
<td>Nicole Marsh (Nursing Research), Claire Rickard (Griffith), Amanda Ullman (Griffith), Tricia Kleidon (LCCH)</td>
</tr>
<tr>
<td><strong>Peripheral intravenous catheter failure and complications in adults: a systematic review and meta-analysis. (a study)</strong></td>
<td>Nicole Marsh (Nursing Research), Joan Webster (Nursing Research), Amanda Ullman (Griffith), Gabor Mihala (Griffith), Marie Cooke (Griffith), Claire Rickard (Griffith)</td>
</tr>
<tr>
<td><strong>Clinically indicated replacement versus routine replacement of peripheral venous catheters</strong></td>
<td>Joan Webster (Nursing Research), Sonya Osborne (QUT), Claire Rickard (Griffith), Nicole Marsh (Nursing Research/Griffith)</td>
</tr>
<tr>
<td><strong>Negative pressure wound therapy for surgical wounds healing by primary closure</strong></td>
<td>Joan Webster (Nursing Research), Paul Scuffham (Griffith), Monica Stankiewicz (Redcliffe Hospital), Wendy P Chaboyer (Griffith), Zhenmi Liu (Manchester Uni), Jo C Dumville (Manchester Uni), Gill Norman (Manchester Uni)</td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
</tr>
<tr>
<td>-------------------------------</td>
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</tr>
<tr>
<td>Alison Mudge</td>
<td>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 Therese Green (Nursing Research and Neuro), Prue McRae (UQ), Jessica Suna (RBWH), Adrienne Young (RBWH)</td>
</tr>
<tr>
<td>Margot Leesonsmith, (Nutrition and Dietetics)</td>
<td>Prof Theresa Green (Nursing Research and Neuro), Adrienne Young (RBWH), Rebecca Moore (TPCH)</td>
</tr>
<tr>
<td>Rohan Grimley (Nambour Hospital)</td>
<td>Theresa Green (Nursing Research and Neuro), Ingrid Rosbergen (RBWH), Dr Suzanne Keys, Dr Louise Gustafsson, Dr Eleanor Horton, Dr Benjamin Chen (Gold Coast Hospital), Greg Cadigan (Health Improvement Unit)</td>
</tr>
<tr>
<td>Kathleen Finlayson (QUT)</td>
<td>Helen Edwards (QUT), Prof Fiona Coyer (Nursing Research &amp; Critical Care), Wendy Chaboyer (Griffith), Frances Lin (Griffith)</td>
</tr>
<tr>
<td>Stijn Blot (Ghent Uni Belgium)</td>
<td>Sonia Labeau (Ghent Uni Belgium), Prof Fiona Coyer (Nursing Research), Christa Park (QUT), Jessica Schluter (TPCH), Patricia Sinasac (Nursing Research)</td>
</tr>
<tr>
<td>Helen Edwards (QUT)</td>
<td>Kerrie Coleman (Skin Integrity), Patricia Sinasac (TPCH), Kathleen Finlayson (QUT), Prof Fiona Coyer (Nursing Research and Critical Care), Christina Parker (QUT), Jessica Schluter (TPCH)</td>
</tr>
<tr>
<td>Claire Rickard (Griffith)</td>
<td>Nicole Marsh (Nursing Research), Peter Carr (Fiona Stanley Hospital), Gavin Jackson (Fiona Stanley Hospital), Marie Cooke (Griffith), Marianne Wallis (Griffith)</td>
</tr>
<tr>
<td>Prof Claire Rickard (Griffith)</td>
<td>Li Zhang (Griffith), Prof Joan Webster (Nursing Research), Marie Cooke (Griffith), Peter Molley (PAH), Alexandra McCarthy (PAH), Samantha Keogh (QUT), Cindy Mervin (Griffith), Nicole Marsh (Nursing Research)</td>
</tr>
<tr>
<td>Prof Claire Rickard (Griffith)</td>
<td>A McCarthy (Griffith), Tricia Kleidon (LCCH), Emily Larsen (Griffith), Li Zhang (Gold Coast Uni), Amanda Ullman (Griffith), Nicole Marsh (Nursing Research), Rachel Edwards (LCCH), Melissa Ameil (PAH)</td>
</tr>
<tr>
<td>Emily Larsen (Griffith)</td>
<td>Prof Claire Rickard (Griffith)</td>
</tr>
<tr>
<td>Prof Claire Rickard (Griffith)</td>
<td>Prof Joan Webster (Nursing Research), Raymond Chan (QUT), Peter Molley (PAH), Geoffrey Playford (PAH), Li Zhang (Griffith), Andrew Hallahan (LCCH), Evan Alexandrou (Liverpool Hospital)</td>
</tr>
<tr>
<td>Zena Moore (Royal College of Surgeons in Ireland, Dublin)</td>
<td>Joan Webster (Nursing Research)</td>
</tr>
<tr>
<td>Rachael Bailey (Caboolture Hospital, ICU)</td>
<td>Alexis Tabah (Redcliffe Hospital, ICU), Manesh Ramanen (Redcliffe Hospital, ICU), Prof Fiona Coyer (Nursing Research and Critical Care)</td>
</tr>
<tr>
<td>Kate Kynoch (Mater Hospital)</td>
<td>Prof Fiona Coyer (Nursing Research &amp; Critical Care), Marian Mitchell (PAH/GU), Gary Von Dohren (Redcliffe Hospital, ICU)</td>
</tr>
<tr>
<td>Nicole Gavin (Cancer care)</td>
<td>Amanda Ullman (Griffith), Tricia Kleidon (LCCH), Nicole Marsh (Nursing Research), Emily Larsen (Griffith), Jill Campbell (Skin Integrity), Prof Claire Rickard (Griffith)</td>
</tr>
<tr>
<td>Julie Flynn (Cancer Care/ Nursing Research)</td>
<td>Samantha Keogh (QUT), Amanda Ullman (QUT), Lee Zhang (Gold Coast Uni), Prof Claire Rickard (Griffith)</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colette McIntyre (Women's and Newborns Services)</td>
<td>Amanda Ullman (Griffith), Karen New (UQ), Donna Hovey (RBWH), Deanne August (Townsville Hospital), Patricia Smith (RBWH), Pieter Koorts (RBWH), Katie Foxcroft (RBWH), Nicole Marsh (Nursing Research)</td>
<td>NeOnatal Vascular Access (NOVA) study: an observational study of neonatal vascular access complications</td>
</tr>
<tr>
<td>Hal Rice, Laetitia de Villiers (Dept of Medical Imaging, GCUH)</td>
<td>Theresa Green (Nursing Research &amp; Neuro), Jason Wenderoth &amp; Andrew Cheung (Prince of Wales Hospital Sydney), Will McAuliffe &amp; Tim Phillips (Sir Charles Gardiner Hospital, Perth), Justin Whitley (RBWH), Maame Owusu (GCUH)</td>
<td>SCOPE-AUS: The Safety and Clinical Effectiveness Of Pipeline™ Flex Embolization devices with Shield Technology™ in patients with intracranial aneurysms: a multicentre retrospective study of an AUStralian cohort</td>
</tr>
<tr>
<td>H Tuffaha (Griffith)</td>
<td>Nicole Marsh (Nursing Research), J Bymes (Griffith Uni), Prof Joan Webster (Nursing Research), Nicole Gavin (Cancer Care Services), Marie Cook (Griffith Uni), Claire Rickard (Griffith Uni)</td>
<td>The cost of vascular access devices in public hospitals in Queensland</td>
</tr>
<tr>
<td>Clint Douglas</td>
<td>CoJoint Associate Prof Clint Douglas (QUT &amp; MNHHS), Prof Sandy Middleton (ACU Sydney), Emeritus Professor Glen Gardner (QUT), Prof Liz McInnes (Sydney ACU), A/Prof Patrick Kelly (University of Sydney), A/Prof Rachael Morton (University of Sydney), A/Prof Carol Wondor (QUT), Adj Prof Alanna Geary (RBWH, MNHHS), Adj Prof Robyn Fox (RBWH), Clinical Assoc Prof Catriona Booker (RBWH)</td>
<td>Transforming Nursing Assessment in Acute Hospitals: a Cluster Randomised Controlled Trial of an Evidence Based Core Assessment protocol (the ENCORE Trial)</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicole Marsh (Nursing Research/Griffith)</td>
<td>Australian College of Nursing Research Award</td>
<td>The National Nursing Forum, 28-30 August 2018</td>
</tr>
<tr>
<td>Nicole Marsh &amp; Joan Webster et al. (Nursing Research/Griffith)</td>
<td>The Cecilia Brazil Nursing Research Award</td>
<td>27th Annual RBWH Healthcare Symposium</td>
</tr>
<tr>
<td>Nicole Marsh (Nursing Research/Griffith)</td>
<td>Menzies Health Institute Queensland, Excellence in Publication Award</td>
<td>Menzies Health Institute Queensland</td>
</tr>
<tr>
<td>Prof Fiona Coyer (Nursing Research/Intensive Care Services)</td>
<td>Vice-Chancellor’s Award for Excellence</td>
<td>2018 Vice-Chancellor’s Award for Excellence ceremony, Queensland University of Technology, 20 July 2018</td>
</tr>
<tr>
<td>Prof Theresa Green (Nursing Research/Internal Medicine)</td>
<td>Vice-Chancellor’s Award for Excellence</td>
<td>2018 Vice-Chancellor’s Award for Excellence ceremony, Queensland University of Technology, 20 July 2018</td>
</tr>
<tr>
<td>Prof Joan Webster (Nursing Research)</td>
<td>Health Services Implementation</td>
<td>27th Annual RBWH Healthcare Symposium</td>
</tr>
<tr>
<td>Prof Joan Webster (Nursing Research)</td>
<td>Extraordinary Leadership Award</td>
<td>QuARRIES, RBWH</td>
</tr>
<tr>
<td>Prof Joan Webster (Nursing Research)</td>
<td>Service Line Award</td>
<td>QuARRIES, RBWH</td>
</tr>
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</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claire Rickard, Maria Cooke, Amanda Ullman, Nicole Marsh, Joshua Bymes, A Bulmer, J Schults, Tricia Kleidon</td>
<td>Nursing and Midwifery Research Centre</td>
<td>Griffith-BD Catheter Choice Coalition</td>
<td>MHIQ Capacity Grants Scheme</td>
<td>$15,000</td>
<td>$50,000 (2018-2020)</td>
</tr>
<tr>
<td>Ullman Al, Bulmer A, Runnegar N, Kleidon T, Lee-Archer, Pearce B, August D. Al: Biles C, Bymes J, Chopra V, Coulthard A, Ware R, Marsh N, Peter Mollee, Rickard C, Wallis M</td>
<td>Nursing and Midwifery Research Centre, Haematology and Oncology Department</td>
<td>Peripherally inserted central catheter innovation to reduce infections and clots: the PICNIC trial</td>
<td>NHMRC New Investigator Grant</td>
<td>$20,000</td>
<td>$706,582 (2018-2020)</td>
</tr>
</tbody>
</table>
**2018 Research Grants – Awarded (cont)**

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryan Gregory, Dwarkanath Ranganathan, Fiona Coyer</td>
<td>Renal Medicine, Nursing and Midwifery Research Centre, Department of Intensive Care Services</td>
<td>The effects of renal replacement therapy on immunosuppressive drug concentrations</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$20,000</td>
<td>$40,000 (2018-2019)</td>
</tr>
<tr>
<td>Jill Campbell, Judith Eddy, Andrea Garrett, Kerri Coleman, Maree Grier, Cara Masterson, Fiona Coyer</td>
<td>Skin Integrity, Gynaecology Department, Gynaecology Oncology Department, Psychology Department, Physiotherapy Department, Nursing and Midwifery Research Centre</td>
<td>A multidisciplinary pre-operative optimisation care bundle for women undergoing vulval surgery; a feasibility study</td>
<td>Royal Brisbane and Women’s Hospital Foundation</td>
<td>$13,332.66</td>
<td>$39,998 (2017-2019)</td>
</tr>
<tr>
<td>Claire Rickard, Marie Cooke, Amanda Ullman, Nicole Marsh, Gillian Ray-Barruel, Tricia Kleidon, V Chopra</td>
<td>Nursing and Midwifery Research Centre</td>
<td>IMAGINE – Innovative Michigan and Griffith International Network</td>
<td>MHIQ Capacity Grants Scheme</td>
<td>$50,000</td>
<td>$100,000 (2018-2019)</td>
</tr>
<tr>
<td>Nicole Marsh, Julie Flynn, Claire Rickard</td>
<td>Nursing and Midwifery Research Centre, Cancer Care Services</td>
<td>Managing intravenous devices among patients with limited vascular access or prolonged therapy: investigating the efficacy of midline catheters – the MIDLINE study</td>
<td>Australian College of Nursing (ACN) Project Grant</td>
<td>$15,000</td>
<td>$30,000 (2018-2019)</td>
</tr>
<tr>
<td>Kathleen Finlayson, Helen Edwards, Fiona Coyer</td>
<td>Critical Care and Clinical Support Services</td>
<td>Validity of laser speckle contrast imaging for assessment of superficial perfusion in the lower limb of patients with vascular leg and foot ulcers</td>
<td>QUT Institute of Health and Biomedical Innovation Mid-Career Research Grant</td>
<td>$9,554</td>
<td>$9,554 (2018)</td>
</tr>
<tr>
<td>Theresa Green, David Rosengren, Kerrie Gillespie, Bernd Ploderer</td>
<td>Neurology, Emergency Medicine</td>
<td>Better Individualised Stroke Care Using Technology (BISCUIT)</td>
<td>MNHHS Link Grant</td>
<td>$85,000</td>
<td>$170,000 (2018-2019)</td>
</tr>
<tr>
<td>Theresa Green, Margot Leesonsmith, Adrienne Young, Rebecca Moore</td>
<td>Neurology, Nutrition and Dietetics</td>
<td>Implementation and evaluation of a multi-site acute stroke nutrition care pathway</td>
<td>Health Research Practitioner Scheme</td>
<td>$26,059</td>
<td>$26,059 (2018)</td>
</tr>
<tr>
<td>Nicole Marsh, Emily Larsen, Sam Tapp, Claire Rickard</td>
<td>Nursing and Midwifery Research Centre</td>
<td>Hospital In The Home (HITH) – Management of peripherally inserted central catheters a retrospective cohort study</td>
<td>School of Nursing and Midwifery Research Capacity Building Seed Funding Grant Round 2018</td>
<td>$5,500</td>
<td>$5,000 (2018)</td>
</tr>
<tr>
<td>Amanda Ullman, Karen New, Donna Hovey, Deanne August, Patricia Smith, Pieter Koorts, Katie Foxcroft, Nicole Marsh</td>
<td>Neonatology Women’s and Newborn Services Nursing and Midwifery Research Centre</td>
<td>Neonatal Vascular Access (NOVA) study: an observational study of neonatal vascular access complications</td>
<td>RBWH and RBWH Foundation Research Project Grant</td>
<td>$35,338.80</td>
<td>$35,338.80 (2018)</td>
</tr>
<tr>
<td>Fiona Coyer, Tony Parker, Jill Campbell, Anna Doubrovsky</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Skin Integrity Services, Queensland University of Technology</td>
<td>BiocheMical characteristics and healing rates of medical device-related pressure injuries (the MEDICI study); a prospective observational pilot study</td>
<td>Queensland University of Technology, School of Nursing Pilot Grant</td>
<td>$30,000</td>
<td>$30,000 (2018)</td>
</tr>
<tr>
<td>Fiona Coyer, Stacey Watts, Jayesh Dhanji, Samantha Keogh</td>
<td>Nursing and Midwifery Research Centre, Critical Care and Clinical Support Services, Queensland University of Technology</td>
<td>Intensive care point of care testing for arterial gas analyses: the INCEPT audit</td>
<td>Queensland University of Technology, New Professor Grant</td>
<td>$25,000</td>
<td>$25,000 (2018)</td>
</tr>
<tr>
<td>Theresa Green, Andrew Wong, Sandy Jamieson</td>
<td>Nursing and Midwifery Research Centre, Neurology/Stroke, Internal Medicine</td>
<td>Post-acute NP-led stroke service delivery model: Managing residual neurological issues and multiple chronic conditions post discharge: a pilot project</td>
<td>HADPC – Queensland University of Technology and Institute of Health and Biomedical Innovation</td>
<td>$25,000</td>
<td>$25,000 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

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<tr>
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<th>Amount in 2018</th>
<th>Total Amount (years)</th>
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</thead>
<tbody>
<tr>
<td>Theresa Green, B. Ploderer</td>
<td>Nursing and Midwifery Research Centre, Neurology/Stroke, Internal Medicine</td>
<td>StrokeAssist aphasia app evaluation</td>
<td>QPAC, DOH</td>
<td>$35,700</td>
<td>$35,700 (2018)</td>
</tr>
<tr>
<td>Clint Douglas, Sandy Middleton, Glenn Gardner Patrick Kelly, Rachael Morton, Elizabeth McInties, Carol Windsor, Robyn Fox, Catriona Booker, Alanna Geary</td>
<td>QUT School of Nursing and Metro North Hospital and Health Service</td>
<td>Transforming nursing assessment in acute hospitals: A cluster randomised controlled trial of an evidence-based core assessment protocol (the ENCORE trial)</td>
<td>NHMRC Partnerships for Better Health – Partnership Projects</td>
<td>NHMRC funding</td>
<td>$865,923 (2018-2020)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


**Book Chapters / Letter publications:**


**2018 Conference Presentations – Invited Speaker, Oral and Poster**

### Invited Speaker:

1. Marsh N. How often are patients experiencing local and catheter-related bloodstream infections within an adult population? A systematic review of peripheral venous catheter complications and failure. Australasian College for Infection Prevention and Control, 2018 conference, Brisbane Top poster abstract presentation, November 2018

2. Marsh N. PICCs at Home – A Retrospective Cohort Study. Hospital in the Home Society Conference. Brisbane, Australia. November 2018


4. Green T…. Supporting relationships and intimacy with people affected by stroke. World Stroke Congress, Montreal, Canada. October 2018

5. Green T…. Empowering patients and families in shared decision-making: preferences and values across stroke transitions. WSC, Montreal, Canada. October 2018


10. Marsh N, Rickard CM. Reliable intravenous access by line experts (the RELIABLE Pilot Trial) comparing PIV insertion by generalists with insertion by a vascular access specialist. Association for Vascular Access Annual Scientific Meeting. Columbus, Ohio. 15-18 September 2018

11. Marsh N, Rickard CM. Incidence, risks and outcomes of primary bloodstream and local infections: Prospective data from 12,936 peripheral intravenous catheters. Association for Vascular Access Annual Scientific Meeting. Columbus, Ohio. 15-18 September 2018

12. Green T. Nursing studies that impact on patient care, interpretation of recent publications in neuroscience nursing, and future directions for nursing research. 2nd International Neuroscience Nursing Research Symposium. Dallas, Texas. 10-12 August 2018

Oral Presentations:

Poster Presentations:
8. Larsen E. The incidence and cumulative risk of primary bloodstream and venous infections in 12, 623 peripheral intravenous catheters in Australia, World Congress Vascular Access (WoCoVA), Copenhagen, June 2018
9. Marsh N. Different transparent dressings – different problems. World Congress Vascular Access (WoCoVA), Copenhagen June 2018
SURGICAL AND PERIOPERATIVE SERVICES
Surgical and Perioperative Services

Surgical and Perioperative Services is made up of twelve speciality departments and the operating rooms service. The Service Line provides a wide range of surgical services to Metro North Hospital and Health Service and is a major tertiary referral centre for Queensland. The importance of clinical research is reflected by significant research activities in the departments.

Some highlights for 2018 were:

The establishment of the Jamieson Trauma Institute (JTI) and the appointment of Professor Michael Scheutz, Trauma and Orthopaedic Surgeon, as its inaugural Director. The Jamieson Trauma Institute is a collaboration of service partners with a focus on research into trauma prevention, systems and clinical practice.

Dr Ben Green and associates from the Breast Endocrine Surgery unit and Dr Matt Peters from the Plastics and Reconstructive Surgery Department, showcased contemporary management of breast cancer and world class outcomes at the 27th Annual RBWH Healthcare Symposium in September. Staff of the Department of Anaesthesia and Perioperative Medicine produced 45 publications and were awarded more than $500,000 of research funding.

The Department of Orthopaedic Surgery was responsible for more than 20 publications and Dr Kevin Tetsworth was an invited speaker and panellist at scientific meetings in 10 countries throughout the year. 18 publications and three book chapters were produced by the Colorectal and Hepatobiliary units in the Department of General Surgery.

Dr Craig Winter of the Kenneth Jamieson Department of Neurosurgery was awarded a PhD by the University of Cambridge for his work on hypoxia and the blood brain barrier.

Dr Geoff Coughlin, Dr John Yaxley, Professor RA. Gardiner et al. Department of Urology, published the two year follow up results of a randomised trial of Robot assisted laparoscopic prostatectomy versus open retropubic prostatectomy in Lancet Oncology. This trial was a world first study.

Dr Barry O’Laughlin
Executive Director
Surgical and Perioperative Services
Department of Anaesthesia and Perioperative Medicine

Our Research Interest Group in Anaesthesia (RIGA), is committed to providing relevant, up-to-date research for improving patient care that can be translated into practice. After the successful development and opening of the Centre for Excellence and Innovation in Anaesthesia in June 2017, we have continued to facilitate exceptional teaching, training and research with a strong focus on investigator lead research. In 2018, the department has produced a record number of publications (45); supervised post-graduate research students (9); participated in (25) departmental led research projects whilst also collaborating with national and international universities and research institutions (2); on clinical trials focusing on improving patient outcomes after surgery.

The department facilitates a research culture providing mentorship, group support and guidance with all research ideas, including clinical trial project management and execution, research requirements and publishing. One further initiative saw the emergence of new research and training possibilities, collaborating with a Brisbane based start-up company, investigating new technologies in training and education for departmental staff.

2018 saw the department awarded 8 scholarships and two grants equating to over $548,615 of funding. Our research continues to grow in areas such as bariatric research and intraoperative cell salvage. The aim of research in anaesthetics is to advance optimal anaesthetic care for patients based on world class, research based clinical practice.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Lee</td>
<td>PhD (UQ 2015-2019)</td>
<td>ROTEM Thromboelastometry in Obstetrics</td>
<td>Prof. André van Zundert, A/Prof Jeremy Cohen, A/Prof Kerstin Wyssusek, A/Prof. Victoria Eley</td>
</tr>
<tr>
<td>Michelle Roets</td>
<td>PhD (UQ 2017-2021)</td>
<td>Intraoperative Cell-Salvage: a cost benefit analysis</td>
<td>A/Prof. David Sturgess, Prof. André van Zundert, A/Prof Kerstin Wyssusek, Dr. Melinda Dean</td>
</tr>
<tr>
<td>Angela Tognolini</td>
<td>MPhil (UQ 2018-2020)</td>
<td>Intraoperative lignocaine infusions – Development of an optimised infusion dosing regimen of obese patients</td>
<td>A/Prof. Victoria Eley, Prof. Jason Roberts</td>
</tr>
<tr>
<td>Kersi Taraporewalla</td>
<td>PhD (UQ 2017-2021)</td>
<td>Teaching and learning psychomotor skills in anaesthesia</td>
<td>Prof. André van Zundert, Prof. Jeffrey Lipman</td>
</tr>
<tr>
<td>Louis Guy</td>
<td>MPhil (UQ 2018-2020)</td>
<td>Oxygen delivery in obese patients undergoing bariatric surgery</td>
<td>A/Prof. Victoria Eley, Prof. André van Zundert, Prof. Jeffrey Lipman</td>
</tr>
<tr>
<td>Cienwen Town</td>
<td>PhD (UQ 2017-2021)</td>
<td>Regional Anaesthesia as an intervention for the treatment of burn related procedural pain</td>
<td>Haakan Strand, Prof. André van Zundert, Dr. James Johnson</td>
</tr>
<tr>
<td>Lizanne Dalgleish</td>
<td>PhD (QUT 2016-2020)</td>
<td>Microcirculatory Dysfunction and Skin Failure in Critically Ill patients: an exploratory study</td>
<td>Prof. Fiona Coyer, Dr. Kathleen Finlayson, Prof. André van Zundert, Dr. Jill Campbell</td>
</tr>
<tr>
<td>Sue Lawrence</td>
<td>MPhil (2017-2019)</td>
<td>Lumbar interspinous ligament scussure: a detailed anatomical and imaging investigation</td>
<td>A/Prof. David Reutens, A/Prof. David Sturgess</td>
</tr>
<tr>
<td>Name</td>
<td>Type of Fellowship</td>
<td>Research Program</td>
<td>University (years)</td>
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<tr>
<td>Andre van Zundert</td>
<td>Professor</td>
<td>Faculty of Medicine</td>
<td>University of Queensland</td>
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<td>Faculty of Engineering and Sciences</td>
<td>Queensland University of Technology</td>
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<td>Udayana University, Indonesia</td>
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<tr>
<td>Kerstin Wyssusek</td>
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<td>Victoria University, Melbourne</td>
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<tr>
<td>Victoria Eley</td>
<td>Associate Professor</td>
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<td>Kersi Taraporewalla</td>
<td>Adjunct Associate Professor</td>
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<tr>
<td>Michael Steyn</td>
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<td>Wally ABEPALAL</td>
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<td>Sandra CONCHA BLAMEY,</td>
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<td>Gerard EAMES</td>
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<td>Christopher FUTTER,</td>
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<td>Rebecca KAMP</td>
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<td>Steven KLUPEL</td>
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<td>Annette LYE</td>
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<tr>
<td>Clarel MANNING</td>
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<tr>
<td>Elizabeth MCLELLAN,</td>
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<td>Ashlea MEEHAN</td>
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<td>Leonie ROBERTS</td>
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<td>Rochelle RYAN</td>
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<td>Gemma SLYKERMANN,</td>
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<td>Benjamin SNOW</td>
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<td>Zoe VELLA,</td>
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<tr>
<td>Amy KREPSKA</td>
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<td>Fayavar AJVADI</td>
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<td>Linda BECKMANN</td>
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<td>Jeremy BRAMMER</td>
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<td>Adrian CHIN</td>
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<td>Daniel CLARKE</td>
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<td>Gareth COLLINS</td>
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<td>Stephen DAGLISH</td>
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<td>David FUNG</td>
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<td>Genevieve GOULDING</td>
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<tr>
<td>Anthony HADE</td>
<td>Senior Lecturer</td>
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<td>University of Queensland</td>
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</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
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<tbody>
<tr>
<td>Kylie HALL</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
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<tr>
<td>Katherine HAMES</td>
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<td>Annabelle HARROCKS</td>
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<tr>
<td>Dominique HOPKINS</td>
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<td>Peter IU</td>
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<td>James JOHNSON</td>
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<tr>
<td>Nadia KOEHLER VARGAS</td>
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<tr>
<td>Sue LAWRENCE</td>
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<tr>
<td>Julie LEE</td>
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<tr>
<td>Marc MAGUIRE</td>
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<tr>
<td>Kate MCCROSSIN</td>
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<tr>
<td>Martina MEYER-WITTING</td>
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<td>Robert MISKEJIN</td>
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<td>Wendy MORRIS</td>
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<tr>
<td>Gladness NETHATHE,</td>
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<tr>
<td>Stephen O’DONOGHUE</td>
<td>Senior Lecturer</td>
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<td>Nathan PETERS</td>
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<tr>
<td>Michelle ROETS</td>
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<tr>
<td>Helmut SCHOENGEN</td>
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<td>Paul SCOTT</td>
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<td>Tish SEARLES</td>
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<tr>
<td>Susannah SHERLOCK</td>
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<td>Adam STOREY</td>
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<tr>
<td>Christopher TURNBULL</td>
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<tr>
<td>Rudolf VAN DER WESTHUIZEN</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland</td>
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<tr>
<td>Yasmim WHATELY</td>
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<tr>
<td>Kellie WREN</td>
<td>Senior Lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland</td>
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<tr>
<td>Molly CLARRIS</td>
<td>Clinical Research Nurse</td>
<td>Anaesthetic Department</td>
<td>RBWH</td>
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<tr>
<td>Simon HOLZ</td>
<td>Clinical Research Nurse</td>
<td>Anaesthetic Department</td>
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<tr>
<td>Heather REYNOLDS</td>
<td>Clinical Research Nurse</td>
<td>Anaesthetic Department</td>
<td>RBWH</td>
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</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andre Van Zundert</td>
<td>Kerstin Wyssusek, Anthony Hade</td>
<td>Positioning of supraglottic airway devices</td>
</tr>
<tr>
<td>Angela Tognolini</td>
<td>Dwane Jackson</td>
<td>Pain in Pelvic Exenteration</td>
</tr>
<tr>
<td>Cienwen Town</td>
<td>James Johnson, Julie Lee, Andre Van Zundert, Jason Brown</td>
<td>Ultrasound-Guided Regional Anaesthesia in Patients receiving Dressing Change After Split-Skin Grafting for Upper Limb Burn Injuries: a Prospective Randomized Study. REPAIR Study</td>
</tr>
<tr>
<td>Cienwen Town</td>
<td>James Johnson, Julie Lee, Andre Van Zundert, Jason Brown</td>
<td>Ultrasound-Guided Regional Anaesthesia in Patients receiving Split-Skin Grafting for Various Burns with Donor Sites from the Upper Thigh: a Prospective Randomized Study, RELIEVE study</td>
</tr>
<tr>
<td>Gareth Collins</td>
<td>Gareth Collins, Lizanne Dalgleish, Cienwen Town</td>
<td>Optic nerve sheath study to measure ICP</td>
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<tr>
<td>RBWH Research Group/Department</td>
<td>Lead Researchers</td>
<td>Collaborative Researchers</td>
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<tr>
<td>Gladness Nethathe</td>
<td>Matthew Bright, Amy Krepska, Victoria Eley</td>
<td>Obstetric admission to the intensive care unit quality assurance audit</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>Prof Andre van Zundert, A/Prof Jeremy Cohen, Kerstin Wyssussek, Victoria Eley, Amy Krepska, Clare Manning</td>
<td>ROTEM® and platelet function in pre-eclamptic obstetric patients</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>Julie Lee, Victoria Eley, Rebecca Kimble, Andre van Zundert, John Rowell, Kerstin Wyssussek</td>
<td>ROTEM® thromboelastometry in obstetrics: baseline parameters in normal and complicated pregnancies. A prospective observational study on labour ward inpatients</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>Joel Thomas, Prof Van Zundert</td>
<td>Tongue Morphology on MRIs as predictor of difficult intubation</td>
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<tr>
<td>Kersi Taraporewalla</td>
<td>A/Prof Kersi Taraporewalla, Penelope Sanderson, Marcus Watson, Heather Reynolds, Prof Andre Van Zundert</td>
<td>Respiratory Sonification Trial</td>
</tr>
<tr>
<td>Kerstin Wyssussek</td>
<td>Cienwen Town, Michelle Roets, Prof Andre Van Zundert</td>
<td>Pre-existing Iron Deficient Anaemia and patient Blood Management practices at RBWH</td>
</tr>
<tr>
<td>Kerstin Wyssussek</td>
<td>Cienwen Town, Michelle Roets, Prof Andre Van Zundert</td>
<td>Pre-existing Iron Deficient Anaemia and patient Blood Management practices at RBWH in accordance with NSQHS standards Guide: Standard 7</td>
</tr>
<tr>
<td>Kerstin Wyssussek</td>
<td>Matthew Wagner, Julie Lee, Michelle Roets, Andre Van Zundert</td>
<td>Ten Year Review of Transfusion Practises During Rapid Transfer in Urgent Trauma Cases (RUPTURE)</td>
</tr>
<tr>
<td>Lizanne Dalgish</td>
<td>Fiona Coyer, Jill Campbell, Kathleen Finlayson, Andre Van Zundert</td>
<td>Microcirculatory dysfunction and Skin Failure in Critically Ill patients. An exploratory study</td>
</tr>
<tr>
<td>Louis Guy</td>
<td>Rebecca Christensen, Victoria Eley, Ben Dodd, Kerstin Wyssussek, Andre Van Zundert</td>
<td>Transnasal humidified Rapid-insufflation ventilator exchange (THRIVE) in obese adults: a randomised controlled trial</td>
</tr>
<tr>
<td>Michelle Roets</td>
<td>Kerstin Wyssussek, Prof Van Zundert, Dr Melinda Dean, Dr John-Paul Tung, Prof Robert Flower</td>
<td>Does transfusion-related immune modulation occur following intraoperative cell salvage? A pilot study (TRIMICS)</td>
</tr>
<tr>
<td>Michelle Roets</td>
<td>Kerstin Wyssussek, Andre Van Zundert, David Sturgess, Louisa Gordon</td>
<td>COSTOMICS (The Cost of Missed Intraoperative Cell Salavage)</td>
</tr>
<tr>
<td>Niall Higgins</td>
<td>Kersi Taraporewalla, David Belavy, Michael Boules, Andre Van Zundert</td>
<td>NIRVANA (Near Infra Red Vascular ANAlysis)</td>
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<tr>
<td>Rebecca Christensen</td>
<td>Rebecca Christensen, Victoria Eley, Dwane Jackson, Rochelle Ryan, Prof Van Zundert, Prof Jason Roberts, Prof Jeffrey Lipman</td>
<td>Therapeutic concentrations cephazolin in bariatric Caesarean section patients</td>
</tr>
<tr>
<td>Rebecca Christensen</td>
<td>Victoria Eley, Leonie Callaway, Kerstin Wyssussek, Andre Van Zundert, Ben Dodd, Michael Stowasser</td>
<td>Validation of Clearsite finger-cuff in patients with problematic non-invasive blood pressure measurement undergoing elective bariatric surgery</td>
</tr>
<tr>
<td>Sandra Concha Blamey</td>
<td>Kerstin Wyssussek, Kate Taylor</td>
<td>A prospective audit of Patient Blood Management knowledge in a subgroup of junior doctors at the Royal Brisbane and Women’s Hospital</td>
</tr>
<tr>
<td>Victoria Eley</td>
<td>Rochelle Ryan, Dwane Jackson, Victoria Eley, Rebecca Christensen, Prof Jason Roberts, Prof Jeffrey Lipman</td>
<td>Therapeutic concentrations cephazolin in bariatric surgical patients</td>
</tr>
<tr>
<td>Victoria Eley</td>
<td>Gunjan Chawla, Matthew Bright, Leonie Callaway</td>
<td>Maternal, neonatal and anaesthesia outcomes of severely obese women</td>
</tr>
<tr>
<td>Victoria Eley</td>
<td>Steven Kloprogge, Rebecca Christensen</td>
<td>Analysis of post-caesarean section wound infection rates</td>
</tr>
<tr>
<td>Victoria Eley</td>
<td>Rebecca Christensen, Helen Barret, Prof Andre Van Zundert, Mathew Smith, Prof Michael Stowasser</td>
<td>Validation of blood pressure readings from the Clearsite finger-cuff compared with invasive blood pressure readings in pregnant women undergoing elective Caesarean section, who have arms which don’t suit regular arm cuffs</td>
</tr>
<tr>
<td>Angela Tognolini</td>
<td>Dwane Jackson, Victoria Eley, Jason Roberts, Jeffery Lipman, Kerstin Wyssussek, Prof Andre Van Zundert</td>
<td>Intraoperative Lignocaine Infusions: development of an optimised infusion dosing regimen for obese patients</td>
</tr>
</tbody>
</table>
## 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Timothy Short (University of Auckland)</td>
<td>Michael Edwards, David Belavy, Victoria Eley</td>
<td>The BALANCED Anaesthesia Study: a prospective, randomised clinical trial of two levels of anaesthetics depth in patient outcomes after major surgery</td>
</tr>
<tr>
<td>Prof Tomás Corcoran (University of Western Australia)</td>
<td>Julie Lee, Gareth Collins, Victoria Eley</td>
<td>The Perioperative ADministration of Dexamethasone and Infection</td>
</tr>
</tbody>
</table>

## 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof André van Zundert</td>
<td>Best Research Support Award – Highly recommended</td>
<td>Metro North Research Excellence Awards 2018</td>
</tr>
<tr>
<td>Prof André van Zundert</td>
<td>Honorary Fellow Royal College of Anaesthetists</td>
<td>Royal College of Anaesthetists, London, UK</td>
</tr>
<tr>
<td>Christine Pirrone Gerard Eames, Rebecca Christensen, Holly Rowell</td>
<td>Second place in the best poster prize session</td>
<td>ASA NSC Adelaide October 2018</td>
</tr>
<tr>
<td>Adrian Chin, Luke Heywood and Peter Iu</td>
<td>Health Services and Implementation Research Award finalist</td>
<td>Metro North Research Excellence Awards 2018</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>2018 Australian Society of Anaesthetists (ASA) Kevin McCaul Prize</td>
<td>Australian Society of Anaesthetists National Scientific Congress</td>
</tr>
<tr>
<td>Julie Lee, Victoria Eley, Kerstin Wyssusek, Jeremy Cohen, Rebecca Kimble, John Rowell, Mandy Way, Andre van Zundert</td>
<td>Open ePoster Prize</td>
<td>Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Sydney 2018</td>
</tr>
<tr>
<td>Roets M, Wyssusek K, Raniga H, Town C</td>
<td>Oral presentation, Best Posters-presentations and awards, One of best 8 International posters</td>
<td>19th Annual Symposium on Patient Blood Management (NATA), Haemostasis and Thrombosis, Lisbon, Portugal, April 12-13, 2018</td>
</tr>
</tbody>
</table>

## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Lee</td>
<td>RIGA/Anaesthetic Department</td>
<td>Rotational Thromboelastometry (ROTEM®) in Obstetrics</td>
<td>RBWH scholarships (renewed)</td>
<td>$44,977.62</td>
<td>$44,977.62 (2018)</td>
</tr>
<tr>
<td>Julie Lee</td>
<td>RIGA/Anaesthetic Department</td>
<td>ROTEM® and platelet function in pre-eclamptic obstetric patients</td>
<td>CSL Behring ANZCA Research Award</td>
<td>$70,000</td>
<td>$70,000 (2018)</td>
</tr>
<tr>
<td>Louis Guy</td>
<td>RIGA/Anaesthetic Department</td>
<td>Effect of high flow nasal oxygen during sedation for gastroenterological endoscopic procedures in bariatric patients</td>
<td>RBWH scholarships</td>
<td>$44,977.62</td>
<td>$44,977.62 (2018)</td>
</tr>
<tr>
<td>Michelle Roets</td>
<td>RIGA/Anaesthetic Department</td>
<td>Intraoperative cell salvage as an alternative to avoid alloegenic (donated) blood transfusion, comparing usage potential and cost effectiveness</td>
<td>RBWH scholarship (renewed)</td>
<td>$44,977.62</td>
<td>$44,977.62 (2018)</td>
</tr>
<tr>
<td>Michelle Roets</td>
<td>RIGA/Anaesthetic Department</td>
<td>Does transfusion-related modulation occur following intraoperative cell salvage: a pilot study</td>
<td>ANZCA scholarship</td>
<td>$20,000</td>
<td>$20,000 (2018)</td>
</tr>
<tr>
<td>Lizzane Daigleish</td>
<td>RIGA/Anaesthetic Department</td>
<td>The microcirculatory dysfunction and skin breakdown in the critically ill patient</td>
<td>RBWH scholarships (renewed)</td>
<td>$38,082.52</td>
<td>$38,082.52 (2018)</td>
</tr>
<tr>
<td>Lizzane Daigleish</td>
<td>RIGA/Anaesthetic Department</td>
<td>Incidental dark field imaging to examine microcirculation changes in trauma, critical care and surgical patients</td>
<td>Capital Funding PPTF research and training grant</td>
<td>$41,540.40</td>
<td>$41,540.40 (2018)</td>
</tr>
</tbody>
</table>
2018 Research Grants – Awarded (cont)

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cienwen Town</td>
<td>RIGA/Anaesthetic Department</td>
<td>Regional Anaesthesia as an intervention for the treatment of burn related procedural pain</td>
<td>RBWH scholarships (renewed)</td>
<td>$38,082.52</td>
<td>$38,082.52 (2018)</td>
</tr>
<tr>
<td>Victoria Eley</td>
<td>RIGA/Anaesthetic Department</td>
<td>Improving the accuracy of perioperative blood pressure monitoring in obese patients</td>
<td>Robert and Janelle Bird Postdoctoral research fellowship</td>
<td>$50,000</td>
<td>$50,000 (2018)</td>
</tr>
<tr>
<td>Kerstin Wyssussek</td>
<td>RIGA/Anaesthetic Department</td>
<td>Pre-existing Iron Deficient Anaemia and patient Blood Management practices at RBWH</td>
<td>MNHHS Innovation Grant</td>
<td>$181,000</td>
<td>$181,000 (2018-2019)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


Journal Articles: (cont):


23. Van Zundert A, Wyssusek K H. Only with an optimal position of the supraglottic airway in situ, valid conclusions can be drawn about oropharyngeal airway pressure. Ind J Anaesth 2018; 62:241-242


33. Wyssusek K H, Keys MT, van Zundert A. Operating Room Greening Initiatives – the old, the new, and the way forward: a Narrative Review. Waste Management Research 2018; 1-17


Book Chapters:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
7. Van Zundert A. Spinals in difficult spine anatomy, 2018. Pune Regional Anaesthesia Course, Pune India

Oral Presentations:
8. Newington D, Tyson N. Haemoglobin rise during separation from cardiopulmonary bypass in adults: a prospective observational study. Australian and New Zealand College of Anaesthetists ASM, 2018
10. Martin Culwick, Yasmin Endlich, Julie Lee. The Bowtie Diagram as a method for providing knowledge about critical Incident incidents. ASA NSC 2018 (Adelaide)
11. Yasmin Endlich, Martin Culwick, Julie Lee. The Triple A project (Airway incidents in anaesthesia audit – Australia and New Zealand) ASA NSC 2018 (Adelaide)
12. Yasmin Endlich, Martin Culwick, Julie Lee. What we have learnt from the webAIRS airway data. ASA NSC 2018 (Adelaide)
Oral Presentations: (cont):

Poster Presentations:
12. Reynolds H, Gowdarmian J. Implementing a new procedure: insertion and maintenance care of intra-arterial catheters using bundled intervention. I.V.N.Z National Scientific Meeting, 2018
Poster Presentations (cont):


35. Nethathe G. Frailty in per-operative patients in three South African Academic Hospitals. Faculty of Medicine, University of the Witwatersrand Research Day, 2018.

Other Communications and Outputs:

Eley V. Opening Plenary Session: Australian and New Zealand College of Anaesthetists Obstetric Anaesthesia Special Interest Group Satellite Meeting. Session Chair: Obstetric Special Interest Group Concurrent Session: Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, 2018. Sydney
Department of Ears, Nose and Throat

- Completed 2 trials under 2018. Dupilumab, an IL-4 and IL-13 antagonist, in patients with Nasal Polyps and a pilot trial on a drug eluting nasal stent in chronic sinusitis.
- The project on characterising the microbiome of otitis media has been concluded. The research has prompted a clinical trial where the application was successful and our research group was awarded $374 000.
- Treating chronic sinusitis with a nasal probiotic spray has been approved by HREC.
- Two clinical trials in in Hereditary Haemorrhagic Teleangiectasia has been developed and are up for ethics application.
- Our clinical evaluation on using outpatient radiofrequency reduction of inferior turbinates. The Royal Brisbane and Women's Hospital New Technology Funding and Evaluation Program has calculated the cost of RFA of inferior turbinates at the ENT outpatients to AUD 184 per patient compared to the surgical procedure where the cost has been estimated at AUD 4500 to 6000. Of our cohort of 189 patients only 6 were referred to surgery of the turbinates under general anaesthesia.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Andrea Coleman</td>
<td>PhD</td>
<td></td>
<td>The microbiome of otitis media and development of a probiotic to prevent otitis media in Australian Indigenous children</td>
<td>Prof Anders Cervin, Dr Seweryn Bialasiewicz, Dr Eva Grahn-Hakansson</td>
</tr>
<tr>
<td>Sinead Ahern</td>
<td></td>
<td></td>
<td>Cytokines in chronic rhinosinusitis</td>
<td>Prof Anders Cervin</td>
</tr>
<tr>
<td>Dr Sarah Chaudry</td>
<td></td>
<td></td>
<td>Outcomes of radiofrequency reduction of inferior turbinates in an outpatient setting</td>
<td>Prof Anders Cervin</td>
</tr>
<tr>
<td>Dr Anders Martensson</td>
<td>PhD</td>
<td></td>
<td>Microbiome Therapy of Chronic Rhinosinusitis</td>
<td>Prof Anders Cervin, Prof Lennart Greiff</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Anders Cervin</td>
<td>Claire Hopkins (Guys Hospital, London)</td>
<td>Core Outcome Dataset in chronic rhinosinusitis</td>
</tr>
<tr>
<td>Prof Anders Cervin</td>
<td>Dr Anders Martensson, Lund University Sweden</td>
<td>Microbiome transplant in Chronic Rhinosinusitis</td>
</tr>
<tr>
<td>Prof Anders Cervin</td>
<td>Rhinology Fellow</td>
<td>iPro8 A nasal Probiotic spray for purulent chronic rhinosinusitis</td>
</tr>
<tr>
<td>Dr James Earnshaw</td>
<td>Prof Anders Cervin</td>
<td>Avastin nasal spray in Hereditary Haemorrhagic Teleangiectasia</td>
</tr>
<tr>
<td>Dr James Earnshaw</td>
<td>Prof Anders Cervin</td>
<td>Propranolol in Hereditary Haemorrhagic Teleangiectasia</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christine Cong Guo (QUT)</td>
<td>Prof Anders Cervin</td>
<td>Developing early biomarkers for Alzheimer’s disease using olfactory mucosa</td>
</tr>
<tr>
<td>Dr Robyn Marsh, Menzies Darwin, Dr Rachel Lappan, Telethon Inst. Perth</td>
<td>Prof Anders Cervin</td>
<td>The Australian Microbiota in Otitis Media Network</td>
</tr>
<tr>
<td>Prof Phil Hugenholtz, Dr Seweryn Bialasiewicz</td>
<td>Prof Anders Cervin</td>
<td>Microbiome in Otitis Media and Metagenomics of the upper airway microbiome</td>
</tr>
<tr>
<td>Kirsten Spann (UQ)</td>
<td>Prof Anders Cervin</td>
<td>Defects in antiviral defence in the upper airways of children susceptible to ear infections and/or lower respiratory tract infections</td>
</tr>
<tr>
<td>Dr Annika Antonsson QIMR</td>
<td>Prof Anders Cervin</td>
<td>Natural history of oral HPV infection – what risk factors are associated with persistent oral HPV infections?</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Anders Cervin, Dr Andrea Coleman</td>
<td>Dep of ENT</td>
<td>Probiotics to prevent otitis media in Australian Indigenous Infants</td>
<td>The Garnett Passe &amp; Rodney Williams Memorial Foundation</td>
<td>$124,755.00</td>
<td>$374,263 (3 years)</td>
</tr>
<tr>
<td>Dr Annika Antonsson</td>
<td>Prof Anders Cervin</td>
<td>Natural history of oral HPV infection – what risk factors are associated with persistent oral HPV infections?</td>
<td>Australian Infectious Disease Research Centre (AID)</td>
<td>$50,000</td>
<td></td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:
5. Cervin A. The Potential for Topical Probiotic Treatment of Chronic Rhinosinusitis, a Personal Perspective. 2018 Jan 12; 7:151r–6

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Invited; ASOHNS Perth 2018, Probiotic treatment of upper airway disease. Cervin
2. Invited; European Rhinologic Society London 2018, Safe sinus surgery. Cervin
2018 Research Publications

Journal Articles:

Book Chapter / Letters:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:
1. Cavallucci David. Robotic resection of 2cm adenocarcinoma in the pancreatic head. ANZHPBA Annual Scientific Meeting, Wellington, New Zealand 2018

Oral Presentations:
The Brisbane Colorectal Research Unit (CRU) was established in 2016, to support and facilitate colorectal research at the RBWH and surrounding hospitals. The unit is a closely aligned association of interested colorectal surgeons and specialists, aiming to deliver high quality research and ultimately provide better outcomes for patients. In addition, the unit focuses on the development and dissemination of minimally invasive techniques for the treatment of colorectal disorders.

The CRU has secured funding to appoint a Research Coordinator to facilitate and centralise the colorectal research activity at RBWH. To date, the CRU represents over 30 active research projects, networks and collaborations, established both locally, nationally and internationally. Our research includes retrospective investigations of patient outcomes following surgery, observational studies assessing best surgical practice, multicentre national and international collaborative projects and early phase clinical trials.

The CRU supports three higher degree scholars, contributing to important research in the following areas; “Theranostics for metastatic colorectal cancer”, “Identification of biomarkers for early detection of anastomotic leaks” and “Investigation of the nutritional status and care of older patients on two general surgical wards”. In addition, the CRU has provided the opportunity for junior personnel to experience colorectal research during medical training by offering supervision and exposure to research during Year 4 elective blocks. This is a great opportunity for junior researchers to be introduced to research methodology and participate in active projects alongside experienced researchers.

The CRU forward-looking research agenda continues to develop high quality internationally recognised research, as we reflect and consider how best to direct our resources.

**Supervised Post-Graduate Research Students**

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. Ph.D, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angela Byrnes</td>
<td>Ph.D, UQ (2015-2018)</td>
<td></td>
<td>Investigating the nutritional status and care of older (≥65 years) patients on two general surgical wards: a multiphase, action research study</td>
<td>David Clark, Adrienne Young, Alison Mudge, Merrilyn Banks, Judy Bauer</td>
</tr>
<tr>
<td>Tahleesa Cuda</td>
<td>Ph.D, UQ (2018 – current)</td>
<td></td>
<td>Theraonostics for metastatic colorectal cancer</td>
<td>Andrew Stevenson, David Clark, Paul Thomas, Damian Petersen, Andrew Riddell, John Hooper, Simon Puttick</td>
</tr>
</tbody>
</table>

**2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aleksandra Edmundson</td>
<td></td>
<td>Research coordinator for Colorectal Research Unit (CRU)</td>
<td>(2016 – current)</td>
</tr>
</tbody>
</table>

**2018 Current RBWH Research Group / Department Led Research Activity**

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craig Harris, David Taylor (CRU), Paul Thomas (HIRF)</td>
<td>Frank Frizells, Andrew McCombie</td>
<td>10-Ten Study: quality of life after surgery for recurrent rectal cancer</td>
</tr>
<tr>
<td>Andrew Stevenson, David Clark (CRU)</td>
<td>Tahleesa Cuda, Andrew Riddell, Simon Puttick, John Hooper</td>
<td>Theranostics for metastatic colorectal cancer</td>
</tr>
<tr>
<td>David Clark (CRU)</td>
<td>Andrew Stevenson, Damien Petersen, Andrea Warwick, Monica Ding, John Lumley,</td>
<td>Total colectomy for constipation</td>
</tr>
<tr>
<td>Andrew Stevenson (CRU)</td>
<td>David Clark</td>
<td>ADIPOSE Study</td>
</tr>
<tr>
<td>David Clark (CRU)</td>
<td>Carina Chow, Damien Petersen, John Lumley, Joseph Kong, Nicholas Lutton</td>
<td>Drain fluid amylase as a sensitive biomarker for anastomotic leak following ileal pouch surgery, a multi-centre study</td>
</tr>
</tbody>
</table>
2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Clark (CRU)</td>
<td>Andrew Riddell, Ehsan Panahi, Julie Moore, Shoni Philpot</td>
<td>Management of malignant polyps in QLD</td>
</tr>
<tr>
<td>David Clark, Damien Petersen, Andrew Stevenson (CRU)</td>
<td>John Lumley, Tony McGiffin</td>
<td>Long term consequences of anastomotic leak following laparoscopic restorative surgery with low pelvic colorectal anastomosis</td>
</tr>
<tr>
<td>David Clark (CRU),</td>
<td>David James, Tom Snow, Edward Yeoh, Jit Pratrap, Stephen Allison</td>
<td>Gastrografin rectal flushes for the evaluation of anastomotic leak</td>
</tr>
<tr>
<td>Andrew Stevenson (CRU), Matthew Burge, Paul Thomas</td>
<td>David Clark, Craig Harris, Carina Chow, Damien Petersen, David Taylor</td>
<td>A pilot study of CXCR-PET scanning in operable rectal cancer</td>
</tr>
<tr>
<td>David Clark (CRU)</td>
<td>Joanna Yu, David Sidhom</td>
<td>Functional outcomes of anastomotic leak after restorative proctectomy and ileal pouch surgery</td>
</tr>
<tr>
<td>David Clark (CRU), Graham Radford-Smith</td>
<td>Anton Lord, Lisa Simms</td>
<td>Pre-diagnostic signature for colorectal</td>
</tr>
<tr>
<td>David Clark (CRU), Bree Stephenson</td>
<td>NA</td>
<td>Transanal tubes, pelvic drains and defunctioning ileostomies: a surgeons’ preference survey</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
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</thead>
<tbody>
<tr>
<td>Cherry Koh, Michael Solomon</td>
<td>Craig Harris, David Taylor, David Clark</td>
<td>Localised recurrent rectal cancer QoL study (Phase-III)</td>
</tr>
<tr>
<td>Doug Roche, James Davidson, Neal Martin</td>
<td>David Clark</td>
<td>Retrospective review of surgical outcomes for patients managed in regional area pre- and post establishment of an IBD clinic</td>
</tr>
<tr>
<td>Stephen Smith</td>
<td>Bree Stephenson, David Clark, David Westwood</td>
<td>CRP validation study in predicting anastomotic leak</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

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<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Clark</td>
<td>Colorectal Research Unit (CRU)</td>
<td>Research Fund</td>
<td>Johnson &amp; Johnson (Australia)</td>
<td>$45,000</td>
<td>$180,000 (2015-2018)</td>
</tr>
<tr>
<td>David Clark</td>
<td>Colorectal Research Unit (CRU)</td>
<td>Research Fund</td>
<td>Olympus (Australia)</td>
<td>$30,000</td>
<td>$120,000 (2015-2018)</td>
</tr>
<tr>
<td>David Clark, Graham Radford-Smith, Lisa Simms, Anton Lord</td>
<td>Colorectal Research Unit/ Surgery/ Gastroenterology</td>
<td>Pre-diagnostic signature for colorectal cancer: Defining a pre-diagnostic biomarker signature</td>
<td>RBWH Foundation</td>
<td>$20,000</td>
<td>$20,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


8. Penna, Marta; Hompes, Roel; Arnold, Steve; Wynn, Greg; Austin, Ralph, FRCS; Warusavitarne, Janindra; Moran, Brendan; Hanna, George B; Mortensen, Neil J; Tekkis, Paris P; (on behalf of the International TaTME Registry Collaborative (inc. Stevenson ARL). Incidence and Risk Factors for Anastomotic Failure in 1394 Patients Treated by Transanal Total Mesorectal Excision: results from the International TaTME Registry. Annals of Surgery: January 5, 2018 – Volume Publish Ahead of Print – Issue


Book Chapters / Letters:
1. ARL Stevenson, Zen and the Art of the Purse-string: In-Transanal Minimally Invasive Surgery (TAMIS) & Transanal Total Mesorectal Excision (taTME) – Ed. S. Atallah (in press)

Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:
1. Clark D: GEsaQ Noosa “Timing is Everything: Colectomy in Acute and Chronic Colitis” July 2018. QLD, Australia
2. Clark D: AGW. “Optimizing the IBD patient for surgery”. September 2018. Brisbane, Australia
3. Clark D: CSSANZ Spring Meeting. ”Omitting Loop Ileostomy in ULAR and Ileo-anal Pouch Surgery”. October 2018. Freemantle, Australia

Poster Presentations:
1. David Clark: Clinical factors associated with chronic inflammatory outcomes following ileal pouch-anal anastomosis for ulcerative colitis. AGW Brisbane 2018

Other Communications and Outputs:
Dr Sarah Abbott, A/Prof Andrew RL Stevenson, Mr Stephen W Bell, A/Prof David Clark, Mr Arend Merrie, Mr Julian Hayes, Mr Shanthan Ganesh, Mr Satish K Warrier. Assessment of a formalised structured pathway for training and accreditation for transanal total mesorectal excision (taTME).
Department of General Surgery – Unit 5 Acute Surgical Unit (ASU)

2018 Research Publications

Journal Articles
Department of Ophthalmology

2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newman, A., Cranstoun, M., Chow, S., Sullivan, T., 2018</td>
<td>Best Surgical Video and Best Overall Video</td>
<td>2018 RANZCO National Conference</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:

Poster Presentations:
1. Park.J. Central acute middle maculopathy following routine vitrectomy for vitreomacular traction syndrome and epiretinal membrane. APVRS Meeting in Seoul 14th-16th December 2018.
Department of Orthopaedics

The RBWH Department of Orthopaedic Surgery has a long tradition of innovation, clinical excellence, and high-quality research. Local, national, and international collaboration continues to be the hallmark of our research initiatives, fostering relationships that generate synergies. Once again, more than 20 formal publications from our Department appeared in 2018, marking the fourth consecutive year this milestone has been reached.

We continue to have a very active interest in 3D modelling and printing, and have emerged over the past few years as a global leader in this field within orthopaedic surgery. We expect further development in this area with the highly anticipated opening of the Herston Biofabrication Institute, and are looking forward to working there together with our academic and industry partners.

The key achievement for the year 2018 was that more than 10 individuals from within our Department published at least one article, and more people are involved in active research projects than ever before. This is encouraging, and suggests a culture of clinical research and investigation now imbues the Department. The FAITH study group had another paper published, as part of an important international effort to investigate alternatives for fixation of displaced femoral neck fractures. Dr Brett Halliday and co-authors published their results following a 20-year single-surgeon cohort of joint arthroplasty performed in patients with haemophilia, an impressive series. Finally, preliminary results began to be realised regarding our extensive investigations into the biology of the Masquelet induced membrane, used to reconstruct post-traumatic long bone defects. This will be by far the largest series of human specimens that has ever been compiled and evaluated using the most sophisticated techniques available, with several publications expected to debut in the coming year.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bilal Zahoor</td>
<td>PhD – University of Queensland</td>
<td></td>
<td>A cohort of pelvic fractures at a single Australian tertiary referral center 2010-2016: epidemiology of pelvic fractures and bio-markers associated with mortality in extra-peritoneal pelvic packing for haemorrhagic pelvic fractures</td>
<td>Kevin Tetsworth, Daryl Wall</td>
</tr>
<tr>
<td>Min Tri Phan</td>
<td>PhD – QUT</td>
<td></td>
<td>Femoral morphology variations and relevant implant fit in relation to peri trochanteric and distal femur fractures</td>
<td>Kevin Tetsworth, Beat Schmutz (QUT)</td>
</tr>
<tr>
<td>Antony Rapisarda</td>
<td>PhD – UNSW</td>
<td></td>
<td>Identification of serum biomarkers for the diagnosis of orthopaedic infections and sepsis</td>
<td>Kevin Tetsworth, Jeff Lipman, Ross Crawford (TPCH)</td>
</tr>
<tr>
<td>Naomi Paxton</td>
<td>PhD – QUT</td>
<td></td>
<td>The future of clinical biofabrication: creating patient-specific melt-electrospun scaffolds for bone regeneration</td>
<td>Kevin Tetsworth, Mia Woodruff (QUT)</td>
</tr>
<tr>
<td>Chris Conyard</td>
<td>PhD – University of Queensland</td>
<td></td>
<td>Knee pain after IM nailing of tibial shaft fractures: randomised controlled trial of infra-patellar vs supra-patellar insertion techniques</td>
<td>Kevin Tetsworth, Ross Crawford (TPCH)</td>
</tr>
</tbody>
</table>

2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Hanly</td>
<td>Luca Daniele, James Powell</td>
<td>Prospective case-controlled series using ankle arthroscopy in trauma</td>
</tr>
<tr>
<td>Andrew Mayo</td>
<td>Luca Daniele</td>
<td>The effect of scaphoid reduction on carpal kinematics in scaphoid nonunion</td>
</tr>
<tr>
<td>RBWH Research Group/Department Lead Researchers</td>
<td>Collaborative Researchers</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Paul McEniery</td>
<td>Luca Daniele</td>
<td>Assessment of biomechanical stability and kinematics using a novel anatomic distal radio-ulnar joint reconstruction</td>
</tr>
<tr>
<td>Jerry van de Pol</td>
<td>John Kinyanjui, Marita Prior, Macy Lu</td>
<td>Randomised controlled trial comparing short vs long tunnels for anterior cruciate ligament knee reconstructions: Clinical and radiographic characteristics</td>
</tr>
<tr>
<td>Kevin Tetsworth, Jerry van de Pol</td>
<td>Steven Kent</td>
<td>Validation of a classification scheme for malunions and nonunions of the proximal tibia and tibial plateau</td>
</tr>
<tr>
<td>Kevin Tetsworth, Jerry van de Pol</td>
<td>Tom Crookes, Marita Prior</td>
<td>Clinical and radiographic outcomes after internal fixation of glenoid neck fractures through a modification of the modified Judet approach</td>
</tr>
<tr>
<td>Kevin Tetsworth, Jerry van de Pol, A/Prof Michael Doran (QUT)</td>
<td>John Anderson</td>
<td>A phase 1 study to evaluate the safety and feasibility of mesenchymal stromal cell therapy in participants with non-unions of tibia fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth, Jerry van de Pol</td>
<td>Timothy Wong, Vaida Glatt, (Univ of Texas, San Antonio)</td>
<td>Clinical outcomes in a clinical series of massive femoral bone defects using custom 3D printed titanium cages placed into a Masquelet induced membrane</td>
</tr>
<tr>
<td>Kevin Tetsworth, Jerry van de Pol</td>
<td>Luca Daniele, Gurpreeth Singh</td>
<td>Tension band wiring vs cannulated screw augmented fixation for patella fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth, Prof Michael Schuetz (TI)</td>
<td>Marita Prior, Vaida Glatt, Molly Ann Purdon Hulbert</td>
<td>Proposed classification scheme for post-traumatic skeletal defects, with a validation study in a clinical series of long bone fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green, Steve Kent, George Patterson, Vaida Glatt, Joyce Antony, George Banic</td>
<td>Statistical shape modelling from CT scans to assess the morphology and morphometry of adult human cadaveric tali: gender-specific differences</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green, Luke Visscher, Marita Prior</td>
<td>Statistical shape modelling from CT scans to assess the morphology and morphometry of the adult human scapula: design considerations for implants for surgical stabilisation</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green, Luke Visscher, Marita Prior</td>
<td>Statistical shape modelling from CT scans to assess the morphology and morphometry of the adult human humerus</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green, Luke Visscher, Marita Prior, Erik Hohmann</td>
<td>Statistical shape modelling from MRI scans to assess the morphology and morphometry of the adult human glenoid, to assess the contribution of the labrum and its influence on version and inclination: the relationship with shoulder instability</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Luke Visscher, Marita Prior</td>
<td>The natural history of post-traumatic malalignment: radiographic correlation between varus/valgus and medial/lateral degenerative arthritis</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Miran Stubican, Marita Prior</td>
<td>Clinical and radiographic characteristics of combined pilon and talus/talar dome injuries</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Rajendra Shetty</td>
<td>Clinical series using the Masquelet induced membrane technique for long bone reconstruction</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Rishi Narasimhan</td>
<td>Meta-synthesis of outcomes after anterior minimally invasive plating for stabilization of humeral shaft fractures – The first 1,000 cases published globally</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Luke Visscher, Nick Green</td>
<td>Design considerations for an implant specific for percutaneous anterior minimally invasive plating of humeral shaft fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Luke Visscher, Nick Green</td>
<td>Design considerations for an implant specific for stabilisation of scapular fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Ishwar Bhattacharai, Elliott D’Costa</td>
<td>The burden of orthopaedic infection in Australia – audit of clinical activity and acute referrals to a general orthopaedic unit in a major metropolitan public hospital</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Alexey Borshch</td>
<td>Analysis of failure of surgical treatment for adult chronic osteomyelitis</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Daryl Wall, Bilal Zahoor, Josh Piercey</td>
<td>A cohort of pelvic fractures at a single Australian tertiary referral center 2010-2016: Epidemiology of pelvic fractures and bio-markers associated with mortality in extra-peritoneal pelvic packing for haemorrhagic pelvic fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Jeff Lipman, Antony Rapisarda, Sara Martinez-Martos</td>
<td>Identification of serum biomarkers for the diagnosis of orthopaedic infections and sepsis</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Chris Conyard, Ross Crawford</td>
<td>Knee pain after intra-medullary nailing of tibial shaft fractures: randomised controlled trial of infra-patellar vs supra-patellar insertion techniques</td>
</tr>
</tbody>
</table>
### RBWH Research Group/Department Led Research Activity

<table>
<thead>
<tr>
<th>Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin Tetsworth</td>
<td>Molly Ann Purdon Hulbert, Sara Martinez-Martos</td>
<td>Delays in coverage of open fractures: clinical outcomes and incidence of deep infection with type 4 open tibial fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green</td>
<td>Geographical mapping of injuries to the talar dome and talus associated with distal tibial pilon fractures</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Liz Hines, Samantha Dowling</td>
<td>Infections associated with fasciotomy wounds</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Rishi Narasimhan, Minoo Patel (Melbourne), Australian Limb Lengthening and Reconstruction Society</td>
<td>Clinical implications of patients returning to Australia after undergoing complex limb reconstruction and elective lengthening procedures overseas</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Travis Parkulo (Marshall University, West Virginia), Erik Hohmann (Dubai), Julian Tetsworth</td>
<td>Triangular antiprisms: The geometry of hexapod external fixators and the etiology of paradoxical accelerated lengthening</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Nick Green</td>
<td>Design of a unique class of 3D structures that combine features of gyroids and lattices (hybrid triply periodic hyperbolic surface)</td>
</tr>
<tr>
<td>Kevin Tetsworth</td>
<td>Luca Daniele, Matt Davis, Owen O’Neill, Nick Green</td>
<td>In vitro validation study of a technique using a measured volume of saline to determine bone volume loss intra-operatively</td>
</tr>
</tbody>
</table>

### Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaida Glatt, Anna Woloszyk (Univ of Texas, San Antonio)</td>
<td>Kevin Tetsworth</td>
<td>Genomic analysis of growth factors associated with early fracture healing under different mechanical conditions</td>
</tr>
<tr>
<td>Vaida Glatt, Anna Woloszyk (Univ of Texas, San Antonio)</td>
<td>Kevin Tetsworth</td>
<td>Design of biomimetic 3D printed titanium cages</td>
</tr>
<tr>
<td>Vaida Glatt (Univ of Texas, San Antonio), Steve Block</td>
<td>Kevin Tetsworth, Nick Green</td>
<td>SOFIE (Surgery for Olecranon Fractures In the Elderly): randomized controlled trial of operative vs non-operative treatment of olecranon fractures in the elderly</td>
</tr>
<tr>
<td>Ian Harris (Sydney), Mithun Joshi, John Limbers, Zsolt Balogh (Newcastle)</td>
<td>Kevin Tetsworth</td>
<td>Robotic-assisted reduction and stabilisation of intra-articular calcaneal fractures</td>
</tr>
<tr>
<td>Ajay Pandey (QUT), Ross Crawford</td>
<td>Kevin Tetsworth, Nick Green, Richard Hanly</td>
<td>Transcutaneous endo-prosthetic reconstruction of wheelchair bound transfemoral amputees</td>
</tr>
<tr>
<td>Munjed Al Muderis (University of Notre Dame, Sydney), Solon Rosenblatt, William Lu</td>
<td>Kevin Tetsworth</td>
<td>Transcutaneous endo-prosthetic reconstruction of military blast injuries</td>
</tr>
<tr>
<td>Munjed Al Muderis (University of Notre Dame, Sydney), Solon Rosenblatt, William Lu</td>
<td>Kevin Tetsworth</td>
<td>Transcutaneous endo-prosthetic reconstruction of trans-tibial amputees</td>
</tr>
<tr>
<td>Munjed Al Muderis (University of Notre Dame, Sydney), Solon Rosenblatt, William Lu, Seamus Thompson, William Lu</td>
<td>Kevin Tetsworth</td>
<td>Osseointegrated implants for transfemoral amputees: radiographic evaluation of bone remodeling</td>
</tr>
<tr>
<td>Munjed Al Muderis (University of Notre Dame, Sydney), Solon Rosenblatt, William Lu</td>
<td>Kevin Tetsworth</td>
<td>Osseointegrated implants for transfemoral amputees: temporal evaluation of changes in bone mineral density in the femoral residuum and the adaptive response to loading</td>
</tr>
<tr>
<td>Munjed Al Muderis (University of Notre Dame, Sydney), William Lu</td>
<td>Kevin Tetsworth</td>
<td>Morphology and morphometry of the residual femur after trans-femoral amputation – implications for the design of implants used for osseointegration to reconstruct amputees</td>
</tr>
<tr>
<td>Paul Tuckett, Matthew Hope (Princess Alexandra)</td>
<td>Kevin Tetsworth, Arvind Puri</td>
<td>Transarticular tibio-talo-calcaneal nailing versus open reduction and internal fixation for treatment of the elderly ankle fracture: protocol for a multi-centre, prospective, randomised controlled trial</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department (cont)

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pablo Corona (Barcelona)</td>
<td>Kevin Tetsworth, Vaida Glatt (Univ of Texas, San Antonio)</td>
<td>Using 3D printed models to preoperatively plan for the application of circular fixators for gradual deformity correction</td>
</tr>
<tr>
<td>Cengiz Sen (Istanbul)</td>
<td>Kevin Tetsworth</td>
<td>Supracondylar nail augmented acute shortening/lengthening for the treatment of infected nonunion of the distal femur with bone loss</td>
</tr>
<tr>
<td>Matthew Hope (Princess Alexandra), Cliff Pollard, Kirsten Valmuur, Cate Cameron, Jacelle Lang (Jamieson Trauma Institute)</td>
<td>Kevin Tetsworth, Jerry van de Pol</td>
<td>The economic impact of lower extremity injuries at two major trauma centres in Brisbane, Australia</td>
</tr>
<tr>
<td>Gunnar Norstedt (Karolinska Institute, Stockholm), (Per Prisell (Burnie), Mark Wilson (Sunshine Coast)</td>
<td>Kevin Tetsworth</td>
<td>Genomic analysis of hip muscles for biomarkers specific to heterotopic ossification: comparison of gluteus minimus and medius muscles</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/Prof Michael Doran (QUT/TRI), Kevin Tetsworth, Cameron Cooke, Kathryn Futegra, Kate Campbell, Mark Young, Jodie Robinson</td>
<td>Department of Orthopaedic Surgery</td>
<td>Using placenta-derived mesenchymal stem/stromal cells (pMSC) to repair non-union bone fractures</td>
<td>2018/19 Cord Blood Research Grant (Inner Wheel Australia Foundation Trust)</td>
<td>$65,000</td>
<td>$65,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Article:


Book Chapter:

2018 Conference Presentations – Invited Speaker, Oral, and Poster

Invited Speaker:


13. Tetsworth K. Combined techniques for the safe correction of very large tibial rotational deformities in adults. 4th Intercontinental Meeting of 3D Surgery (Defects, Deformities, Discrepancies), Istanbul, Turkey, May 16-19, 2018


15. Tetsworth K. Bone loss and total knee arthroplasty. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

16. Tetsworth K. Case discussion: infected total knee replacement. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

17. Tetsworth K. High-energy injuries of the upper extremity with bone loss. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

18. Tetsworth K. Introduction to planning a patient specific cage to reconstruct a major bone defect. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

19. Tetsworth K. Case discussion: shoulder instability. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

20. Tetsworth K. Case discussion: difficult revision THA. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

21. Tetsworth K. Lower extremity injuries with significant bone loss. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

22. Tetsworth K. Talus injuries and AVN with infection. 11th Meeting of the International Musculoskeletal Society. Beirut, Lebanon 8-10 July 2018

23. Tetsworth K. Case discussion: shoulder infection. 11th Meeting of the International Musculoskeletal Society, Beirut, Lebanon 8-10 July 2018

24. Tetsworth K. Osteotomy rules: the geometry of deformity correction. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

25. Tetsworth K. Percutaneous osteotomy techniques. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

26. Tetsworth K. Distal femoral replacement for complex acute fractures in the elderly. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

27. Tetsworth K. Osseointegration in PVD and wheel chair bound amputees. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

28. Tetsworth K. Translation deformity planning. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

29. Tetsworth K. Evolution of limb salvage: 1950 through 2025. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

30. Tetsworth K. Introduction to planning a patient-specific cage to reconstruct a major bone defect. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

31. Tetsworth K. Management of prosthetic joint infection: antibiotic elution from PMMA spacers. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

32. Tetsworth K. New alternatives for bone segment transport. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

33. Tetsworth K. Biology of the Masquelet induced membrane. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

34. Tetsworth K. Bone transport: docking site management. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

35. Tetsworth K. Chronic osteomyelitis: optimising debridement in the 21st Century Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

36. Tetsworth K. Extra-articular deformity and TKA: strategies for management. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

37. Tetsworth K. Global experience with minimally invasive plate osteosynthesis for the stabilization of humeral shaft fractures: Systematic review and quantitative evidence synthesis of clinical results. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

38. Tetsworth K. Osseointegration update. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

39. Tetsworth K. Neglected open fractures Grade 4. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

40. Tetsworth K. Clinical cases: non-union reconstruction. Supersemana Académica (Academic Super Week) Colombian Orthopedic Association, Medellín, Colombia, 29 October to 1st November 2018

41. Tetsworth K. Biology of the Masquelet induced membrane. Joint American Academy of Orthopedic Surgeons (AAOS) and Saudi Orthopaedic Association Meeting, Jeddah, Saudi Arabia – 8-11 December 2018

42. Tetsworth K. Minimally invasive plate osteosynthesis (MIPO) for the stabilization of humeral shaft fractures. Joint AAOS and Saudi Orthopaedic Association Meeting, Jeddah, Saudi Arabia – 8-11 December 2018


44. Tetsworth K. Introduction to planning a patient specific cage to reconstruct a major bone defect. Joint AAOS and Saudi Orthopaedic Association Meeting, Jeddah, Saudi Arabia – 8-11 December 2018
Invited Speaker: (cont):


46. Tetsworth K. Osseointegration: Current state of the art, Queensland Trauma Symposium, Brisbane, QLD, 23 February 2018

47. Tetsworth K. 3D printed custom titanium scaffolds for the management of segmental bone defects, 3rd Complex Revision and Limb Salvage Meeting, Noosa, QLD, 23-25 February 2018

48. Tetsworth K. Complex case discussion: simultaneous reconstruction of segmental femoral defect and total hip replacement, 3rd Complex Revision and Limb Salvage Meeting, Noosa, QLD, 23-25 February 2018

49. Tetsworth K. Distal femoral replacement for complex acute fractures in the elderly, 3rd Complex Revision and Limb Salvage Meeting, Noosa, QLD, 23-25 February 2018

50. Tetsworth K. Symptomatic hip abductor deficiency: technique of reconstruction, 3rd Complex Revision and Limb Salvage Meeting, Noosa, QLD, 23-25 February 2018

51. Tetsworth K. New alternatives for bone transport, Australian Limb Lengthening and Reconstruction Society Annual Scientific Meeting, Noosa, QLD, 1-3 June 2018

52. Tetsworth K. Biology of the Masquelet induced membrane, Australian Limb Lengthening and Reconstruction Society Annual Scientific Meeting, Noosa, QLD, 1-3 June 2018

53. Tetsworth K. Musculoskeletal sepsis: classification and management strategies, Australian Limb Lengthening and Reconstruction Society Annual Scientific Meeting, Noosa, QLD, 1-3 June 2018

54. Tetsworth K. Demonstration: reamer irrigator aspirator bone graft harvest, and PMMA antibiotic spacer fabrication, Australian Limb Lengthening and Reconstruction Society Annual Scientific Meeting, Noosa, QLD, 1-3 June 2018

55. Tetsworth K. Quantitative evidence synthesis of MIPO for humeral shaft fractures: global clinical experience 2007-17, Australian Orthopaedic Trauma Society 1st Annual Scientific Meeting, Noosa, QLD, 22-24 June 2018

56. Tetsworth K. Case discussion: failed humeral fixation, Australian Orthopaedic Trauma Society 1st Annual Scientific Meeting, Noosa, QLD, 22-24 June 2018

57. Tetsworth K. Debate: infected internal fixation must be removed – in the affirmative, Australian Orthopaedic Trauma Society 1st Annual Scientific Meeting, Noosa, QLD, 22-24 June 2018


Oral Presentations:

1. Daniele L, Rebgetz P, Underhill I, Ochsner A, Taylor F. Biomechanical stability of radial head fracture fixation with headless compression screws. 2018 Australian Orthopaedic Association Queensland Branch Annual Scientific Meeting, 8 June 2018

2. Tetsworth K, Al Muderis M, Lu W. Osseointegration for the reconstruction of devastating military and terrorist blast injuries, 2nd International Symposium on Innovations in Amputation Surgery and Prosthetic Technologies (IASPT) Vienna, Austria May 10-12, 2018


4. Tetsworth K Using custom 3D printed scaffolds together with the Masquelet technique for the reconstruction of massive femoral bone defects, 34th Annual Meeting of the Orthopedic Trauma Association, Orlando, Florida, 17-20 Oct 2018

5. Tetsworth K. Case-match controlled comparison of anterior MIPO and ORIF for the stabilization of humeral shaft fractures, 38th Meeting of the Israeli Orthopaedic Association, Tel Aviv, Israel 12-13 December 2018

6. Tetsworth K. Preliminary results using patient-specific 3D printed titanium cages for the reconstruction of massive femoral bone loss, 38th Meeting of the Israeli Orthopaedic Association, Tel Aviv, Israel 12-13 December 2018

Other Communications and Outputs:

(a) Dennis Hartig Google Scholar Profile: https://scholar.google.com.au/citations?user=VY5f5jAAAAAJ&hl=en
(b) Jerry van de Pol Google Scholar Profile: https://scholar.google.com.au/citations?user=hp0pFGMAAAAJ&hl=en
(c) Royal Brisbane and Women’s Hospital / Kevin Tetsworth on the AOA Research Networking Map: https://www.aoa.org.au/research/researchmap
(d) Kevin Tetsworth Google Scholar Profile: https://scholar.google.com.au/citations?user=bx9ktUgAAAAJ&hl=en
(e) Kevin Tetsworth ResearchGate Profile: https://www.researchgate.net/profile/Kevin_Tetsworth
Department of Oral and Maxillofacial Surgery Unit

The year saw a consistent output of research articles and presentations for the department. Ongoing randomised controlled trials continue to recruit patients steadily. The department formed important collaborations with external organisations to expand our research activities particularly in the area of head and neck oncology and reconstructive surgery.

The department continued operating a virtual surgical planning and 3D printing facility. Producing various projects in this exciting surgical planning arena.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name (RBWH staff in bold)</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benjamin Fu</td>
<td>MPhil</td>
<td></td>
<td>CT scanning in odontogenic infections of the head and neck</td>
<td>Martin Batstone</td>
</tr>
<tr>
<td>Michael Hurrell</td>
<td>PhD</td>
<td></td>
<td>Treatment delay in Facial Trauma</td>
<td>Martin Batstone</td>
</tr>
<tr>
<td>Timothy Liu</td>
<td>PhD</td>
<td></td>
<td>Intermediate risk Oral Cavity SCC</td>
<td>Martin Batstone</td>
</tr>
<tr>
<td>Kelly McGowan</td>
<td>PhD</td>
<td></td>
<td>Risk factors for Medication- Related Osteonecrosis of the jaws: a Case control Study in Queensland, Australia</td>
<td>Saso Ivanowski, Newell Johnson, Robert Ware, Caroline Acton</td>
</tr>
</tbody>
</table>

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Batstone</td>
<td>QIMR</td>
<td>Immune biomarkers in Oral Cavity SCC</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karline Acton</td>
<td></td>
<td>Risk factors for Medication – Related Osteonecrosis of the jaws: a case control study in Queensland, Australia</td>
</tr>
<tr>
<td>Kelly McGowan (UQ), Saso Ivanowski (Griffith), Newell Johnson (Griffith), Robert Ware (Griffith), Caroline Acton (RBWH Maxillofacial Surgery Unit)</td>
<td>Caroline Acton (Maxillofacial Surgery Unit)</td>
<td></td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

Oral Presentations:
Department of Plastic and Reconstructive Surgery

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
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<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darryl Dunn</td>
<td>Michael Wagels, Raja Sawhney</td>
<td>A multicentre trial of lymph node metastatic disease in lip squamous cell carcinoma</td>
</tr>
<tr>
<td>Shireen Senewiratne</td>
<td>Henry Beem, Luke Watson, Noah Betar</td>
<td>Bilateral pectoralis major myocutaneous advancement flap reconstruction for complicated median sternotomy wounds</td>
</tr>
</tbody>
</table>

2018 Conference Presentations – Invited Speaker, Oral and Poster

Poster Presentations:
1. Robert Calvisi, Caitlin O’Hare, Jessica Van Den Heuvel, and Darryl Dunn. Lymph node metastasis in Squamous Cell Carcinoma of the lip. Australian New Zealand Head and Neck Cancer Society and International Society for Maxillofacial Rehabilitation Annual Scientific Meeting 2018, Melbourne
2. Katie-Beth Webster, Darryl Dunn, and Sue Ferredo. Outcomes of octogenarian patients following head and neck cancer. Australian New Zealand Head and Neck Cancer Society and International Society for Maxillofacial Rehabilitation Annual Scientific Meeting 2018, Melbourne
5. Karissa Graham and Roman Mykula. Clostridial myonecrosis following injection into the sacroiliac joint. Royal Australian College of Surgeons 87th Annual Scientific Congress, Sydney
Dr Jenkins is the Principle Investigator on two clinical trials aimed at improving the management of vascular disease, and has significant research collaborations with Professor Jon Golledge’s group at James Cook University. During 2018, under the supervision of Dr Jenkins and in collaboration with Dr Rowbotham of 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 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).

Under the supervision of Dr Jenkins, Dr Pinto and Dr Iyer, Mr Dally-Watkins, a student of the University of Queensland, completed a successful honours project for his BSc degree. Mr Dally-Watkins investigated the applications of 3D printing specifically in the preoperative planning of endovascular aortic repair. The research demonstrated that a 3D model of an abdominal aneurysm could be produced to a dimensional standard that is comparable to a CT scan. This promising research bolstered the feasibility of utilising 3D printing technology in the replication of complex pathological anatomy for various applications in vascular surgery, including preoperative familiarisation for clinicians, patient education, and for use in surgical simulation.

Research carried out by the Vascular Department has the potential to significantly improve the management of patients with vascular disease.

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jason Jenkins</td>
<td>Senior lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland (XXXX – current)</td>
</tr>
<tr>
<td>Simon Quinn</td>
<td>Senior lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland (2013 – current)</td>
</tr>
<tr>
<td>Danella Favot</td>
<td>Senior lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland (XXXX – current)</td>
</tr>
<tr>
<td>Murray Ogg</td>
<td>Senior lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland (XXXX – current)</td>
</tr>
<tr>
<td>Nigel Pinto</td>
<td>Senior lecturer</td>
<td>Faculty of Medicine</td>
<td>University of Queensland (XXXX – current)</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
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<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jason Jenkins, Dr Nigel Pinto</td>
<td>Advanced manufacturing and simulation of vascular anatomy, novel endovascular devices, medical applications of graphene</td>
<td></td>
</tr>
<tr>
<td>Dr Jason Jenkins</td>
<td>Sr. Julie Jenkins (RBWH)</td>
<td>The Endurant Stent Graft Natural Selection Post-market Registry (ENGAGE)</td>
</tr>
<tr>
<td>Dr Jason Jenkins, Dr Nigel Pinto, Dr Vikram Iyer</td>
<td>Matthew Dally-Watkins (University of Queensland)</td>
<td>Applications of 3D printing in preoperative planning of endovascular aortic repair</td>
</tr>
<tr>
<td>Dr Vikram Iyer</td>
<td>Prof Jon Golledge (James Cook University)</td>
<td>Coding and non-coding circulating RNAs associated with the presence and rapid expansion of abdominal aortic aneurysm</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Jon Golledge (James Cook University)</td>
<td>Dr Jason Jenkins</td>
<td>Effect of a dietary supplement on abdominal aortic aneurysm growth (IMAGEN)</td>
</tr>
<tr>
<td>Prof Jon Golledge (James Cook University)</td>
<td>Dr Jason Jenkins</td>
<td>Brief behavioural counselling intervention for peripheral arterial disease (BIP)</td>
</tr>
</tbody>
</table>
2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vikram Iyer</td>
<td>Foundation for Surgery Professor Philip Walker RACS Vascular Research Scholarship</td>
<td>N/A</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jason Jenkins, Dr Nigel Pinto</td>
<td>Vascular</td>
<td>Advanced manufacturing and simulation of vascular anatomy, novel endovascular devices, medical applications of graphene</td>
<td>The Herston Biofabrication Institute</td>
<td>$175,000</td>
<td>$1,600,000 (2018 – 2024)</td>
</tr>
<tr>
<td>BURTON, Nicola W; Golledge, J.; Jenkins, J; Norman, P.; Fiatarone Singh, M.; Leicht, A. &amp; Ademi, Z.</td>
<td>Vascular</td>
<td>Assessment of the efficacy of a brief behaviour intervention designed to improve physical activity in patients with peripheral artery disease</td>
<td>NHMRC Project Grant administered by James Cook University</td>
<td>$50,000</td>
<td>$131,257.26 (2014-2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:
Kenneth G Jamieson, Department of Neurosurgery

Further progress was made towards completion of Drs Winter and Nichols' clinical research project into MMP biomarkers in TBI, with recruitment of patients, and significant progress with development of appropriate assays. They anticipate completion of the project later in 2019.

Dr McMillen published two further operative technical videos in Operative Neurosurgery, with further publications in this area to come.

Dr Jeffree continued to be involved in recruitment for multi-centre neuro-oncology trials.

Dr McMillen and Dr Liam Coulthard have applied for funding to commence recruitment for a study of complement activation in CSF in aneurysmal subarachnoid haemorrhage

Dr McMillen is one of the lead investigators in a circulating cell free DNA biomarker in TBI study that commenced planning in late 2018, with a view to commencing recruitment at a number of sites in 2019

Dr Craig Winter was awarded a PhD from the University of Cambridge in the United Kingdom for his body of research work into hypoxia and the blood brain barrier.

2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group / Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Paul Nichols, Dr Craig Winter</td>
<td></td>
<td>Serum biomarker correlation with dynamic contrast enhanced MRI for matrix metalloproteinases (1, 2, 7, 9, 10) in traumatic brain injury</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Jamieson Trauma Institute – TBI Advisory Group</td>
<td>Dr Jason McMillen</td>
<td>The sensitivity and specificity of brain-origin circulating cell free DNA (ccfDNA) for the diagnosis of concussion and prediction of intracranial injuries</td>
</tr>
</tbody>
</table>

2018 Research Awards and Achievements

<table>
<thead>
<tr>
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<th>Award</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dr Craig Winter</td>
<td>PhD, University of Cambridge</td>
<td>For body of research work into hypoxia and the blood brain barrier</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:


2018 has been a very good year for moving research forward in burns. While continuing to innovate and provide the highest quality up to date burns care, we have also taken huge steps forward to deliver research outcomes over the whole multidisciplinary spectrum of burns care.

One of the biggest highlights was the successful project application to the Herston Biofabrication Institute. Partnering RBWH clinicians with QUT, the Institute promises to deliver access to cutting edge therapies and technologies for burns patients while focusing research on real clinical problems to hopefully deliver rapidly translatable outcome to further improve patient care.

We continue to partner with industry with the final stages of the Burn 2 Study sponsored by Polynovo and using cutting edges Australian developed biodegradable polymers to treat burn wounds, and not only save lives, burn improve their quality of life after major burn trauma.

We have also been working closely with the newly established Jamieson Trauma Institute, working on developing research projects spanning the whole spectrum of the burn patient journey. Hopefully this is just the beginning of a new era of research aimed at improving burn patient care.

### 2018 Current RBWH Research Group / Department Led Research Activity

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Jason Brown</td>
<td>Jason Miller, Carl Lisec</td>
<td>A prospective, non-controlled evaluation of the synthetic NovoSorb™. Biodegradable Temporising Matrix (BTM) for dermal repair after deep burn injury</td>
</tr>
<tr>
<td>Jason Brown</td>
<td>Michelle Donovan, Zephanie Tyack, Steven Mcphail</td>
<td>Feasibility, acceptability, costs and preliminary effect of an innovative ablative fractional CO2 laser service for people with burn scars</td>
</tr>
<tr>
<td>Andrea Mc Kittrick</td>
<td>Amber Jones, Jason Brown</td>
<td>A retrospective review of the management and functional outcomes of patients who developed Heterotopic Ossification in one or bilateral upper limbs post severe burn injury at Royal Brisbane and Women’s Hospital (RBWH) between 2006 and 2016</td>
</tr>
<tr>
<td>Anita Plaza</td>
<td>Michelle Cottrell, Jennifer Paratz</td>
<td>Evaluating the effectiveness of a home based telerehabilitation model for the delivery of physiotherapy exercise programs following burn injury</td>
</tr>
<tr>
<td>Jennifer Strong</td>
<td>Sarah O'Reilly, Dale Trevor, Jodie Copley, Tammy Aplin, Joanna Mollison, Nicole Coghlan, Sue Laracy, Jason Brown</td>
<td>The lived experience of pressure garments: an exploration of the partnership between expert consumers and occupational therapists in a tertiary MDT burns centre</td>
</tr>
<tr>
<td>Zephanie Tyack</td>
<td>M.E. Carrière, L.B. Mokkink2, M.J. Westerman, P.P.M. van Zuijlen, H.C.W. de Vet, Jason Brown</td>
<td>POSAS 3.0: refinement of the patient scale using focus groups in Australia and the Netherlands (Australian study arm)</td>
</tr>
<tr>
<td>Sarah O'Reilly</td>
<td>Jenny Ziviani, Jenny Strong, Jason Brown</td>
<td>Investigating the use of elastic based tapes for management of hypertrophic scar formation to the upper limb post burn injury</td>
</tr>
<tr>
<td>Jason Brown</td>
<td>Mathilde Desselle, Sean Powell, Maureen Ross, Mia Woodruff, Liela Cuttie, Peter Gillies</td>
<td>Herston Biofabrication Institute Burns Program</td>
</tr>
</tbody>
</table>
## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
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<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jason Brown, Michelle Donovan, Zephanie Tyack, Steven Mcphail</td>
<td>Professor Stuart Pegg Burns Centre</td>
<td></td>
<td>Royal Brisbane and Women's Hospital Foundation</td>
<td>$39,944</td>
<td>(2018-2019)</td>
</tr>
<tr>
<td>Jenny Strong, Sarah O'Reilly, Dale Trevor, Jodie Copley, Tammy Aplin, Joanna Mollison, Nicole Coghlan, Sue Laracy, Jason Brown</td>
<td>Occupational Therapy, Professor Stuart Pegg Burns Centre</td>
<td>The lived experience of pressure garments: An exploration of the partnership between expert consumers and occupational therapists in a tertiary MDT burns centre</td>
<td>Royal Brisbane and Women's Hospital Foundation</td>
<td>$7,482.40</td>
<td>(2018-2019)</td>
</tr>
<tr>
<td>Jason Brown, Peter Gillies, Michelle Donovan, Sue Laracy</td>
<td>Professor Stuart Pegg Burns Centre, Herston Biofabrication Institute</td>
<td>Burns Program</td>
<td>Herston Biofabrication Institute</td>
<td>$500,000.00</td>
<td>$2499,645 (2018-2023)</td>
</tr>
<tr>
<td>Sarah O'Reilly, Jenny Ziviani, Jenny Strong, Jason Brown</td>
<td>Occupational Therapy, Professor Stuart Pegg Burns Centre</td>
<td>Investigating the use of elastic based tapes for management of hypertrophic scar formation to the upper limb post burn injury</td>
<td>CAHRLI</td>
<td>$2,500</td>
<td>$5,000 (2018-2019)</td>
</tr>
</tbody>
</table>

## 2018 Conference Presentations – Invited Speaker, Oral and Poster

### Invited Speaker:

### Oral Presentations:
1. **Michelle Donovan.** Interim Pressure Garment Therapy: an investigation into the use of low level pressure therapy for burns donor site support and scar reduction. ANZBA 2018 Brisbane
2. **Megan Grigg, Cienwen Town, Jason Brown.** Donor site dressings: how much do they affect pain? ANZBA 2018 Brisbane
3. **Cienwen Town, Anaesthetic Block for donor sites, ANBA 2018 Brisbane**
4. **Martha Druery,** Psychosocial management to optimise quality of life ANZBA Scientific Meeting 2018, Brisbane
5. **Nicole Coghlan.** The experiences of wearing compression garments post burn injury ANZBA 2018 Brisbane
6. **Mikaela Seymour** The cost of Self Immolation – 20 years of data from RBWH. ANZBA 2018 Brisbane
7. **Jacelle Warren,** Epidemiology of burns patients admitted to the State-wide Adults Burns Service in Queensland: a 10-year Review ANZBA 2018 Brisbane
8. **Amber Jones.** Immersive virtual reality in occupational therapy practice as a non-opioid analgesic during burn wound care procedures. ANZBA 2018 Brisbane
9. **Andrea Mc Kittrick,** a systematic review to investigate outcome tools currently used for patients who have sustained hand burn injuries and to map the psychometric properties of the outcome measures identified from the literature across the ICF. ANZBA 2018 Brisbane
10. **Grace Brownlee.** Best practice management of burns during pregnancy, and our experience over 20 years at a tertiary burns unit. ANZBA 2018 Brisbane.
Trauma Service

2018 Current RBWH Research Group / Department Led Research Activity

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</thead>
<tbody>
<tr>
<td>Dr Cameron Ashurst (Trauma, ETC)</td>
<td>Dr Michael Tuppin (DMI)</td>
<td>Injuries following ladder falls presentations to the ED: a retrospective review</td>
</tr>
</tbody>
</table>

2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhavik Patel</td>
<td>Michael Rudd, Cliff Pollard</td>
<td>Management of splenic injuries in Qld: Retrospective trend analysis over five years and one-year prospective evaluation of clinical practice guideline implementation</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
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<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Winnears, Catherine Hurn, Martin Wullschleger, Anthony Holley</td>
<td>Trauma, ETC, ICU</td>
<td>Fibrinogen Early in Severe Trauma Study (FEISTY)</td>
<td>Emergency Medicine Foundation, Gold Coast Health, National Blood Authority</td>
<td>$3,000</td>
<td>$3,000 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

1. Ryan, Glenn; Swift, Kate; Williamson, Frances; Zheng, Olivia; Scriven, Elissa; Eley, Robert. Feasibility of REBOA (Resuscitative Endovascular Balloon Occlusion of the Aorta) in trauma-related non-compressible torso haemorrhage across two South-East Queensland (Brisbane) metropolitan Major Trauma Centres (The Ochsner Journal).

2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:


Oral Presentations:

4. Patel B, Handy M, Wall D. Eleven-year experience with management of Thoracic injuries at a non-cardiac centre. Singapore Trauma and Acute Care Conference. Singapore, April 2018

Poster Presentations:

2. Bodnar D, Rashford S, Handy M, Bosley E. Trauma Ultrasound in the Pre-Hospital Environment (TUPHEN Study). Poster Number: PP03. Queensland Trauma Symposium. Brisbane, February 2018
3. Handy M, Wall D, Cleland P. Injury severity of Kite surfers attending hospitals in Metro North Hospital and Health Service. Poster Number: PP05. Queensland Trauma Symposium. Brisbane, February 2018
WOMEN'S AND NEWBORN SERVICES
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 universities and colleges including the University of Queensland, Queensland University of Technology, James Cook University, Central Queensland University, Australian Catholic University and the Royal Australian and New Zealand College of Obstetrics and Gynaecology (RANZCOG).

The Queensland Centre for Gynaecological Cancer (QCGC) Research’s mission is to research and develop the best standard of care for women experiencing gynaecological cancer. This includes finding causes for and preventing gynaecological cancer; and finding better treatment options to cure women affected by gynaecological cancer. We have a focus on conducting surgical clinical trials. In 2018 we continued our studies of exercise in ovarian cancer; a trial of non-surgical treatment for early stage endometrial cancer; and the IMAGINE Study which aims to implement and evaluate a model of training for practising gynaecologists in Total Laparoscopic Hysterectomy.

The Perinatal Research Centre’s (PRC) multidisciplinary research team 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.

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. Dr Mark Davies, an eminent staff specialist in the neonatology department was promoted to Clinical Professor in October 2018, a testament to his dedication towards supporting and promoting clinical research to improve neonatal outcomes. GSNU’s close collaboration with the PRC continues to translate research into clinical practice with a number of innovative projects in addition to active engagement in building research capacity.

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. There is currently a strong focus on breastfeeding outcomes in mothers with type I and type 2 diabetes mellitus. In addition, the department continues to be involved in a number of collaborative research projects including a large NHMRC funded study evaluating the guided treatment of asthma in pregnancy.

The Department of Obstetrics and Gynaecology continues to increase its research and clinical 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 management of the women we care for is contemporary and evidenced based. Significant research contributions continued in 2018 in the Maternal Fetal Medicine Unit, Paediatric and Adolescent Gynaecology, Urogynaecology, and Reproductive Endocrinology and Infertility specialities in Women’s and Newborn Services with a number of national and international presentations and publications.
Grantley Stable Neonatal Unit (GSNU)

In 2018, the Grantley Stable Neonatal Unit Research Group formally changed their name to RBWH Neonatal Research valuing the need to be locally and internationally recognised as originating from the largest service provider of exceptional healthcare for women and babies on Australia’s eastern seaboard. It continues to expand research capacity by collaborating with the Perinatal Research Centre, the University of Queensland and Griffith University as well as participating in several multi-centred NHMRC funded clinical trials which aim to improve significant short- and long-term neonatal outcomes.

In October 2018, Dr Mark Davies, a dedicated Neonatologist and current co-chair of RBWH Neonatal Research was promoted to Clinical Professor, commemorating a significant milestone in his distinguished career and inspiring trainee clinician researchers to follow his research leadership example.

Developing a strategic plan for the near future in line with the Metro North Research Strategy has been the focus for the group this year, including a determined effort towards prioritising research agendas and securing much needed research funds to improve resources. Challenging clinical questions have inspired exciting projects bringing together multi-disciplinary neonatal clinicians and scientists who are passionate about enhancing care through high quality translational research. Research priorities include optimising proficiency of service provision through systematic service evaluation and improving outcomes in neurodevelopment, nutrition and neonatal retrieval medicine.

### Supervised Post-Graduate Research Students

<table>
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<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
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<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donna Franklin</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Nasal High flow therapy in infants with bronchiolitis</td>
<td>John Fraser, Mark Davies</td>
</tr>
<tr>
<td>Luke Jardine</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Development of early predictors of long-term neurodevelopmental outcome in preterm infants</td>
<td>Mark Davies, Paul Colditz</td>
</tr>
<tr>
<td>Michelle Paliwoda</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Standardisation of neonatal physiological parameters and development of neonatal early warning tools</td>
<td>Karen New, Fiona Bogossian, Mark Davies</td>
</tr>
<tr>
<td>Kobi Best</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Sensory Exposure to Language in the Newborn Care Unit: A Multi-Method Trial of Sound and Language Exposure in Neonates Cared for in Single-Room Environments on Developmental Outcomes up to 2 years</td>
<td>Karen New, Fiona Bogossian, Ian Hughes, Mark Davies</td>
</tr>
<tr>
<td>Jasmine Antoine</td>
<td>FRACP, Royal Australasian College of Physicians</td>
<td></td>
<td>Bacterial colonisation of endotracheal tube (ETT) in infants less than 32 weeks gestation</td>
<td>Mark Davies, Garry Inglis</td>
</tr>
<tr>
<td>Nada Al-Theyab</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Body Composition in Very Preterm Infants During Their Hospital Stay</td>
<td>Tim Donovan, Barbara Lingwood, Yvonne Eiby, Paul Colditz</td>
</tr>
<tr>
<td>Alison D’Souza</td>
<td>MPhil, University of Queensland</td>
<td></td>
<td>The impact of macronutrient intake and growth on neurodevelopmental outcome in preterm infants</td>
<td>Tim Donovan, Barbara Lingwood, Yvonne Eiby, Paul Colditz</td>
</tr>
<tr>
<td>Ms Nur Abu Kassim</td>
<td>PhD, University of Queensland (2015-2017)</td>
<td></td>
<td>To investigate vitamin D and vitamin D analogues levels in human plasma</td>
<td>Karen Whitfield, N Shaw, A Hewavitharanara</td>
</tr>
<tr>
<td>Melissa Lai</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Towards Optimizing Neurodevelopmental Outcomes of Very Preterm infants; the Effects of Infant Massage by the Mother</td>
<td>Paul Colditz, Simon Finnigan, Jurgen Fripp</td>
</tr>
<tr>
<td>Abirami Ratnasingham</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Long-term consequences of altered neonatal adiposity</td>
<td>Barbara Lingwood, Tim Donovan, Yvonne Eiby, Marloes Dekker, Peter Davis</td>
</tr>
<tr>
<td>Annice Kong</td>
<td>PhD, University of Queensland</td>
<td></td>
<td>Brain structure assessed using diffusion MRI and function assessed using dense array EEG of very preterm infants and the ability to predict neurodevelopmental outcomes</td>
<td>Paul Colditz, Simon Finnigan, Stephen Rose, Roslyn Boyd</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deborah Gilmour</td>
<td>Mark Davies</td>
<td>What sound/light/vibration/acceleration are babies experiencing on retrievals?</td>
</tr>
<tr>
<td>Jasmine Antoine</td>
<td>Mark Davies</td>
<td>Bacterial colonisation of endotracheal tube (ETT) in infants less than 32 weeks gestation</td>
</tr>
<tr>
<td>Janet Sharpe</td>
<td>Mark Davies</td>
<td>Does earlier arrival of the retrieval team improve short-term outcomes in outborn extremely premature infants?</td>
</tr>
<tr>
<td>Janet Sharpe</td>
<td>Mark Davies</td>
<td>The availability of probiotics and donor human milk improves mortality and morbidity in very preterm infants</td>
</tr>
<tr>
<td>Didier Tshamala</td>
<td>Mark Davies</td>
<td>Does pasteurised donor human milk availability affect breast feeding</td>
</tr>
<tr>
<td>Didier Tshamala</td>
<td>Adam Hoellering, Mark Davies</td>
<td>Study of movement of umbilical venous catheters over time</td>
</tr>
<tr>
<td>Michelle Paliwoda</td>
<td>Mark Davies, Karen new, Fiona Bogossian</td>
<td>Standardisation of neonatal physiological parameters and development of neonatal early warning tools</td>
</tr>
<tr>
<td>Melissa Weber</td>
<td>Melissa Lai, Mark Davies</td>
<td>An Audit of Noise levels in a Level Six Intensive Care Neonatal Unit</td>
</tr>
<tr>
<td>Tim Donovan</td>
<td>Anndrea Flint, Donna Hovey, Stephanie Webster, Dr Helen Donovan</td>
<td>Special Care Nursery Feeding Study</td>
</tr>
<tr>
<td>Pieter Koorts</td>
<td>William Tarnow-Mordi, Kei Lui, Roger Soll, Paolo Manzoni, Deborah Schofield</td>
<td>LIFT (Lactoferrin Infant feeding trial)</td>
</tr>
<tr>
<td>Pieter Koorts</td>
<td>Mark Davies, Katherine White, Garry Inglis, Adam Hoellering</td>
<td>Propofol compared to Morphine and Midazolam for sedation for intubation in infants</td>
</tr>
<tr>
<td>Kristin O’Connor</td>
<td>Mark Davies</td>
<td>Determining the criteria for predicting successful extubation with systemic dexamethasone in premature infants</td>
</tr>
<tr>
<td>Gill Noreiks</td>
<td>Melissa Lai, Mark Davies</td>
<td>RCT – Incubator humidity for 1 or 2 weeks for ELBW babies</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Andrew Hutchinson</td>
<td>An Audit of Nutritional Intake in Infants Less Than 1000g or 28 Weeks Gestation Following change in parenteral nutrition formulations</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Deborah Gilmour</td>
<td>NeoSTRESS: Study of Transfer and Retrieval Environmental Stressors upon neonates via a smartphone application – ACCELERATION/VIBRATION</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Deborah Gilmour</td>
<td>NeoSTRESS: Study of Transfer and Retrieval Environmental Stressors upon neonates via a smartphone application – LIGHT</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Deborah Gilmour</td>
<td>NeoSTRESS: Study of Transfer and Retrieval Environmental Stressors upon neonates via a smartphone application – SOUND</td>
</tr>
<tr>
<td>Karen Whitfield</td>
<td>Kristin O’Connor, Mark Davies</td>
<td>Micronutrient levels in infants</td>
</tr>
<tr>
<td>Tim Donovan</td>
<td>Paul Colditz</td>
<td>PEACH: Long-term Outcome of Neonatal Adiposity</td>
</tr>
<tr>
<td>Adam Hoellering</td>
<td>Mark Davies</td>
<td>Does CVP in preterm infants predict IVH?</td>
</tr>
<tr>
<td>Dayan DeAlwis</td>
<td>Mark Davies</td>
<td>Cochrane review – late surfactant in very preterm neonates who still required mechanical ventilation after day 7</td>
</tr>
<tr>
<td>Neeraj Mehta</td>
<td>Melissa Lai, Drum Patel</td>
<td>Neonatal transfusions and clinical triggers</td>
</tr>
<tr>
<td>Paul Colditz</td>
<td>Roslyn Boyd, A Malhotra, Stephen Rose, B Boashash, M Ditchfield, M Fahey, K Pannek, R Moldrich</td>
<td>PREBO Neurodevelopment of the preterm infant</td>
</tr>
<tr>
<td>Drum Patel</td>
<td>Pieter Koorts, Karen Langford, Lyn Chapple, Melissa Lai, Mark Davies, Kate Cogill, Nidhi Bansal</td>
<td>Pasteurised Donor Human Milk in late preterm and term infants: a Randomised Controlled Trial</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Wixey, Jany Pienaar, Paul Colditz, Ian Wright, Melissa Lai</td>
<td>Jany Pienaar</td>
<td>Retrospective study of ibuprofen administration on neurodevelopmental outcomes in IUGR neonates in Australia</td>
</tr>
<tr>
<td>Zornitz Stark, Sebastian Lunke, Marcel Dinger</td>
<td>Chirag Patel</td>
<td>Australian Genomic Health alliance; acute care genomic testing</td>
</tr>
<tr>
<td>Collaborative Lead Researchers</td>
<td>RBWH Researchers</td>
<td>Research Project Title</td>
</tr>
<tr>
<td>-------------------------------</td>
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</tr>
<tr>
<td>Michelle Paliwoda</td>
<td>Michelle Paliwoda</td>
<td>Determining reference ranges for well late-preterm and term neonate’s vital signs</td>
</tr>
<tr>
<td>Anndrea Flint</td>
<td>Mark Davies</td>
<td>Determining reference ranges for well term neonate’s overnight oximetry</td>
</tr>
<tr>
<td>Roslyn Boyd</td>
<td>Pieter Koorts</td>
<td>NEBO: Neonatal Encephalopathy Brain Outcomes: prospective study of Clinical and MRI Biomarkers in term born infants to improve accurate and earlier prediction of Cerebral Palsy</td>
</tr>
<tr>
<td>Amanda Ullman</td>
<td>Colette McIntyre</td>
<td>NeOnatal Vascular Access (NOVA) study: an observational audit of neonatal vascular access complications</td>
</tr>
<tr>
<td>Peter Dargaville</td>
<td>Tim Donovan, Melissa Lai</td>
<td>RCT – OPTIMIST-A Trial. Multicentre randomised controlled trial of minimally-invasive surfactant therapy in preterm infants 25-28 weeks gestation on continuous positive airway pressure</td>
</tr>
<tr>
<td>Omar Kamlin, Brett Manley</td>
<td>Pieter Koorts</td>
<td>RCT – PLUSST TRIAL. Multicentre Randomised Controlled Trial of Surfactant Plus Budesonide to Improve Survival Free of Bronchopulmonary Dysplasia in Extremely Preterm Infants</td>
</tr>
<tr>
<td>Elsa Wynd</td>
<td>Melissa Lai, Adam Hoellering</td>
<td>AIM-PREM: Assessing the Impact of Prematurity on Renal Medulla development</td>
</tr>
<tr>
<td>Paul Dawson</td>
<td>Pieter Koorts, Paul Colditz, Nadia Badawi, Roslyn Boyd, Vicki Flenady, Elizabeth Hurron, Francis Bowling, Sailesh Kumar</td>
<td>Neuroprotective role of sulphate among preterm babies (SuPreme Study)</td>
</tr>
<tr>
<td>Katie Groom, Glenn Gardiner</td>
<td>Pieter Koorts, Renuka Sekar</td>
<td>RCT – Childhood Outcomes of STRIDER NZ Aus: a randomised controlled trial of sildenafil therapy in dismal prognosis early-onset intrauterine growth restriction (New Zealand and Australia)</td>
</tr>
<tr>
<td>Iona Novak</td>
<td>Paul Colditz</td>
<td>RCT – GAME: Harnessing Neuroplasticity to Improve Motor Performance in Infants with Cerebral Palsy: a Pragmatic Randomized Controlled Trial</td>
</tr>
<tr>
<td>William Tarnow-Mordi</td>
<td>Pieter Koorts</td>
<td>RCT – LIFT Does lactoferrin improve survival free from morbidity in very low birth weight infants? Lactoferrin Infant Feeding Trial: a randomised controlled trial</td>
</tr>
<tr>
<td>Helen Liley</td>
<td>Paul Colditz</td>
<td>RCT – PAEAN – Preventing Adverse Outcomes of Neonatal Hypoxic Ischaemic Encephalopathy with Erythropoetin: a Phase III Randomised Placebo Controlled Multicentre Clinical Trial</td>
</tr>
<tr>
<td>Roslyn Boyd</td>
<td>Paul Colditz</td>
<td>RCT – REACH: Randomised trial of Rehabilitation very Early in Congenital Hemiplegia</td>
</tr>
<tr>
<td>William Tarnow-Mordi</td>
<td>Pieter Koorts</td>
<td>RCT – APTS Should very preterm babies receive a placental transfusion at birth? A RCT Study – long term outcomes</td>
</tr>
<tr>
<td>Rod Hunt</td>
<td>Paul Colditz</td>
<td>RCT – NEST-A randomized controlled trial comparing the treatment of electrographic and clinical seizures, to the treatment of clinical seizures alone, in term or near-term encephalopathic infants and measuring the impact on death and neurodevelopment at 2 years. Neonatal Electrographic Seizure Trial (NEST)</td>
</tr>
<tr>
<td>Anndrea Flint</td>
<td>Mark Davies</td>
<td>A systematic review of the use of overnight oximetry in neonates</td>
</tr>
<tr>
<td>William Tarnow-Mordi</td>
<td>Pieter Koorts</td>
<td>RCT – APTS Should very preterm babies receive a placental transfusion at birth? A RCT Study – short term outcomes</td>
</tr>
<tr>
<td>Angela Berkhout</td>
<td>Melissa Lai</td>
<td>Paediatric cohort study of Herpes Simplex Infection in early infancy and meningoencephalitis in Queensland</td>
</tr>
<tr>
<td>Alicia Spittle</td>
<td>Pieter Koorts, Melissa Lai</td>
<td>Early identification of infants with cerebral palsy: implementation of evidence-based guidelines into practice</td>
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</tbody>
</table>

### 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colette McIntyre</td>
<td>Best New Presenter Award</td>
<td>Australian College of Neonatal Nurses (ACNN) National Conference August 2018</td>
</tr>
<tr>
<td>Colette McIntyre</td>
<td>Best Poster Award</td>
<td>ANZNN Clinical Practice Improvement conference, Sept 2018</td>
</tr>
<tr>
<td>Abi Ratnasingham, Yvonne Eiby, Tim Donovan, Barbara Lingwood</td>
<td>Best Clinical Research Award</td>
<td>27th RBWH Health Symposium, Sept 2018</td>
</tr>
<tr>
<td>Donna Hovey</td>
<td>National Presenters Award</td>
<td>Australian College of Neonatal Nurses (ACNN) National Conference August 2018</td>
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</table>
2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Colditz, K Khosrotehrani, Tracey Bjorkman, J Patel, Julie Wixey</td>
<td>Perinatal Research Centre</td>
<td>Stem cell treatment for neonatal hypoxic ischaemic encephalopathy</td>
<td>NHMRC</td>
<td>$318,065</td>
<td>$954,195 (2018-2020)</td>
</tr>
<tr>
<td>Paul Colditz, Barbara Lingwood, Tracey Bjorkman, P Dawson, Roslyn Boyd, Yvonne Elby</td>
<td>Perinatal Research Centre</td>
<td>A pre-clinical intensive care facility to research long-term outcomes in neonates</td>
<td>UQ Major Equipment and Infrastructure (MEI) &amp; NHMRC Equipment Grant</td>
<td>$200,343</td>
<td>$200,343 (2018)</td>
</tr>
<tr>
<td>Paul Colditz, K Khosrotehrani, Julie Wixey</td>
<td>Perinatal Research Centre</td>
<td>Improving brain outcomes in the growth restricted newborn using placental stem cell treatment</td>
<td>Financial Markets Foundation for Children Research Grant</td>
<td>$46,666</td>
<td>$140,000 (2018-2020)</td>
</tr>
<tr>
<td>Paul Colditz, Julie Wixey, Melissa Lai, Tracey Bjorkman</td>
<td>Perinatal Research Centre</td>
<td>Stem cell treatment to protect the growth restricted newborn brain</td>
<td>RBWH Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Melissa Lai, Tracey Bjorkman, Julie Wixey, Paul Colditz</td>
<td>Perinatal Research Centre</td>
<td>CO2 gas as an adjunctive neuroprotective therapy for hypoxic-ischaemic encephalopathy (HIE)</td>
<td>RBWH Foundation</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td>Paul Colditz, Roslyn Boyd, A Malhotra, Stephen Rose, B Bashash, M Ditchfield, M Fahey, K Pannek, R Moldrich</td>
<td>Perinatal Research Centre</td>
<td>Neuroprotective role of sulphate among preterm babies (SuPrime study)</td>
<td>NHMRC</td>
<td>$149,867.60</td>
<td>$749,338.08 (2015-2019)</td>
</tr>
<tr>
<td>Paul Colditz, K Khosrotehrani, Tracey Bjorkman, J Patel, Julie Wixey</td>
<td>Perinatal Research Centre</td>
<td>Stem cell treatment for neonatal hypoxic ischaemic encephalopathy</td>
<td>NHMRC</td>
<td>$318,065</td>
<td>$954,195 (2018-2020)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles:

Journal Articles: (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Oral Presentations:
1. Deborah Gilmore. NeoSTRESS. 27th Annual RBWH Healthcare Symposium, Sept 2018
2. Annorea Flint. Overnight Oximetry in Neonates – a Literature Review. ACNN National Conference, August 2018
3. Donna Hovey. Transcutaneous Bilirubin Meters – are they safe? ACNN National Conference, August 2018
4. Jasmine Antoine. Looks in the mirror and what does she see. Don’t Forget the Bubbles Conference. August 2018

Poster Presentations:
1. Colette McIntyre. Moisture blisters, the who, what, when, where, why and how? ANZNN CPI Conference, Sept 2018

Other Communications and Outputs:

Journal Abstracts:
Obstetrics and Gynaecology

The Department of Obstetrics and Gynaecology 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
- 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
- Urogynaecology service
- Paediatric and adolescent gynaecology
- Gynaecology oncology service
- Multidisciplinary BRAC 1 clinic.

Maternity Services collaborate closely with the Perinatal Research Centre, University of QLD and UQCCR for local state and commonwealth grants and multi-centre research projects. The department has been very active in undertaking enhancing its research activities in the area of antenatal care, general obstetrics as well as endometriosis research under the guidance of Dr Akwasi Amoako (Conjoint O & G Specialist UQ and RBWH) and Thangeswaran Rudra. The Maternal Fetal Medicine unit provides a comprehensive and competitive environment for prospective and retrospective research and audits as well as undertaking collaborative research with other centres in Australia and New Zealand. The unit has published extensively in on fibronectin and cervical length in predicting labour, reduced fetal movements, exo. The unit has also collaborated internationally in the STRIDOR trial.

The Paediatric and Adolescent Gynaecology State-wide Service is active in research and presents and publishes internationally. Associate Professor Kimble was an invited keynote speaker in Zurich at the International conference in O & G on reproductive outflow tract disorders in PAG patients. A/P Kimble and her team were also awarded the prize for the oral presentation, “Severe Perineal tear among primiparous women in the early 21st Century:” in the Urogynaecology category at RCOG World Congress. The unit provides outreach services to the Queensland Children’s Hospital.

Professor Chris Maher, Urogynaecologist, is involved in international multicentre research and Cochrane reviews aimed at researching the most effective treatments for women with urogynaecological issues to improve patient outcomes. He has published extensively in the area of pelvic organ prolapse and incontinence surgery in women.

Reproductive endocrinology and infertility is a division of the Department of Gynaecology. Professor Hayden Homer is the Christopher Chen Chair in Reproductive Medicine at UQ and has established Queensland’s first Oocyte Biology Research Laboratory situated in the UQCCR and Queensland’s first human oocyte research program. Professor Homer is the director of the lab, the lead for the newly established “Fertility” research theme at UQCCR and an Associate Editor for the Australian and New Zealand Journal of O&G. His research is funded by 3 CIA NHMRC Grants worth over $2M. He is also a co-investigator on a unique large-scale genome-wide association study investigating genetic associations with miscarriage awarded funding in 2018 (NHMRC APP1163040). 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). In 2018, Prof Homer’s lab published the highest resolution analyses of chromosome segregation in mammalian oocytes to-date in the highly prestigious journal, Nature Communications, setting his lab apart as the only one in Australia with this capability and one of only a handful in the world.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goutham Subramanian</td>
<td>PhD, UQ (2016-2019)</td>
<td>Role of DNA damage response proteins in oocyte development</td>
<td>Hayden Homer, Kum Kum Khanna</td>
<td></td>
</tr>
<tr>
<td>Jessica Greaney</td>
<td>PhD, UQ (2017-2020)</td>
<td>Asymmetric cell division in mammalian oocytes</td>
<td>Hayden Homer, Carlos Salomon-Gallo</td>
<td></td>
</tr>
<tr>
<td>Juvita DeLancy</td>
<td>PhD, UQ (2017-2019)</td>
<td>Sirtuin regulation of oocyte quality in obesity and during ageing</td>
<td>Hayden Homer, Carlos Salomon-Gallo</td>
<td></td>
</tr>
<tr>
<td>Sara Pagliarani</td>
<td>PhD, UQ (2018-2020)</td>
<td>Chlamydia infection in the ovary: effects on fertility in female koalas</td>
<td>Chiari Palmieri, Steve Johnston, Hayden Homer</td>
<td></td>
</tr>
<tr>
<td>Minh Cao</td>
<td>Honours, UQ (2018) – completed – First Class Honours</td>
<td>Understanding SAC arrest during G2-arrest in mouse oocytes</td>
<td>Hayden Homer, David Simmons</td>
<td></td>
</tr>
<tr>
<td>Pia Astbury</td>
<td>Honours, UQ (2017-2018) – completed – First Class Honours</td>
<td>Oxidative stress in human oocytes</td>
<td>Hayden Homer</td>
<td></td>
</tr>
<tr>
<td>Nanthini Jayabalan</td>
<td>Master of Science, UQ</td>
<td>Effect of Maternity Obesity and Gestational Diabetes Mellitus (GDM) on the Placental Exosome Trafficking During Gestation</td>
<td>Carlos Soloman-Gallo, Gregory Rice, Gregory Duncombe, Martha Lappas</td>
<td></td>
</tr>
<tr>
<td>Rosemary Stoke</td>
<td>PHD, UQ</td>
<td>Maternal, obstetric and perinatal outcomes of pregnancies complicated by socio-demographic medical, surgical or intrapartum risk factors</td>
<td>Silesh Kumar, Gregory Duncombe</td>
<td></td>
</tr>
<tr>
<td>Grace Boyd</td>
<td>PHD, UQ</td>
<td>Maternal, obstetric and perinatal outcomes of pregnancies complicated by socio-demographic medical, surgical or intrapartum risk factors</td>
<td>Silesh Kumar, Gregory Duncombe</td>
<td></td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hayden Homer</td>
<td>Christopher Chen Chair of Reproductive Medicine</td>
<td>Director of Christopher Chen Oocyte Biology Research Laboratory, UQCCR, Faculty of Medicine</td>
<td>UQ (2016-current)</td>
</tr>
<tr>
<td>Rebecca Kimble</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>University of Queensland 2007 – current</td>
</tr>
<tr>
<td>Rebecca Kimble</td>
<td>Adjunct Associate Professor</td>
<td>Faculty of Health Sciences</td>
<td>Queensland University of Technology</td>
</tr>
<tr>
<td>Karin Lust (2018 research under Obstetric Medicine section)</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>University of Queensland 2014 – current</td>
</tr>
<tr>
<td>Akwasi Amoako</td>
<td>Doctor</td>
<td>Faculty of Medicine</td>
<td>University of QLD 2017 – ongoing</td>
</tr>
<tr>
<td>Christopher Maher</td>
<td>Professor</td>
<td>Faculty of Medicine</td>
<td>University of QLD 2017 – ongoing</td>
</tr>
<tr>
<td>Gregory Duncombe</td>
<td>Associate Professor</td>
<td>Faculty of Medicine</td>
<td>University of Queensland</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
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<tbody>
<tr>
<td>Thangeswaran Rudra, Akwasi Amoako, Pinar Cingiloglu</td>
<td></td>
<td>Classical Caesarean Section vs Lower Segment Caesarean Section Outcome – 5 years’ experience</td>
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<tr>
<td>Thangeswaran Rudra, Priyanka Kosanam</td>
<td></td>
<td>Trend analysis and Outcome Peripartum Hysterectomy for 15 years</td>
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<tr>
<td>Thangeswaran Rudra, Jessica Phillips Yelland</td>
<td>Karin Lust, Penny Wolski, Dayae Lah</td>
<td>Pregnancy outcome following Diabetic Ketoacidosis in Pregnancy for 20 years</td>
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<tr>
<td>Chris Lehner, Renuka Sekar, Akwasi Amoako</td>
<td>Cathy Z Liu, Nicole Ho, Chris Lehner, Renuka Sekar, Akwasi Amoako (RBWH), Anh Nguyen (PA)</td>
<td>The Efficacy of Quantitative Fetal Fibronectin in Predicting Spontaneous Preterm Birth in Symptomatic Women</td>
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<tr>
<td>Chris Lehner, Renuka Sekar, Akwasi Amoako</td>
<td>Cathy Z Liu, Nicole Ho, Chris Lehner, Renuka Sekar, Akwasi Amoako (RBWH), Anh Nguyen (PA)</td>
<td>Role of Fetal Fibronectin and Cervical Length Measurement in Predicting Preterm Labour</td>
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<tr>
<td>Thangeswaran Rudra, Akwasi Amoako</td>
<td>Umsha Pathmanathan, Rachel Wilkinson, Thangeswaran Rudra, Akwasi Amoako</td>
<td>Maternal and Fetal Outcomes in Pregnancies Complicated by Reduced Fetal Movements</td>
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<td>Matthew Smith, Yogesh Chadha &amp; Akwasi Amoako</td>
<td>Angela Ng, Janine Farquharson, Matthew Smith, Yogesh Chadha &amp; Akwasi Amoako</td>
<td>Water Versus Land Birth: a 5-Year Retrospective Study of Obstetric and Neonatal Outcomes</td>
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<td>Thangeswaran Rudra, Akwasi Amoako</td>
<td>Pinar Cingiloglu, Thangeswaran Rudra, Akwasi Amoako</td>
<td>Have Rising Classical Caesarean Section Rates Improved the Outcome in Tertiary Centre?</td>
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<tr>
<td>Thangeswaran Rudra, Akwasi Amoako</td>
<td>Pinar Cingiloglu, Thangeswaran Rudra, Akwasi Amoako</td>
<td>A Comparison Between Classical Caesarean Section and Lower Uterine Segment Caesarean Section in Preterm Foetuses: a 10-Year Retrospective Review from a Single Tertiary Obstetric Centre</td>
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<tr>
<td>Akwasi Amoako</td>
<td>Cathy Liu, Mariano Mascarenhas, Oybek Rustamov, Akwasi Amoako</td>
<td>The Impact of Chemotherapy Drugs on The Ovarian Function: a Systematic Review of Specific Agents and Regimens</td>
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<td>Akwasi Amoako</td>
<td>Cathy Liu, Mariano Mascarenhas, Oybek Rustamov, Akwasi Amoako</td>
<td>IVF And Ethnicity Systematic Review and Meta-Analysis</td>
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<tr>
<td>Stacey Davie, Akwasi Amoako</td>
<td>Stacey Davie, Akwasi Amoako</td>
<td>Sleep Quality and Endometriosis: a Group Comparison Pilot Study</td>
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<tr>
<td>Philip Chi Kwong Chung, William Song, Thangeswaran Rudra</td>
<td>Philip Chi Kwong Chung, William Song, Thangeswaran Rudra</td>
<td>Outcome following Placenta Previa and Accreta – 10-year review</td>
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<tr>
<td>RMN Kimble</td>
<td>B O’Brien, J Mason</td>
<td>Bleeding Disorders in adolescents with Heavy menstrual bleeding in the Paediatric and adolescent age group; a ten-year cohort Study</td>
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<td>RMN Kimble</td>
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<td>MRI concordance with surgical and clinical diagnosis of complex congenital reproductive tract anomalies; a 15-year retrospective cohort study</td>
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<td>RMN Kimble</td>
<td>B O’Brien, R Dahiya</td>
<td>Extreme presentations of the HAIR-AN syndrome in the paediatric and adolescent population; a review of literature and case study</td>
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<tr>
<td>RMN Kimble</td>
<td>M Khatun, C Martin, M Findlay, B Farthing</td>
<td>Severe perineal tear among primiparous women in the early 21st Century: time trend, changing risk factors and clinical practice in maternity care</td>
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<tr>
<td>Keisuke Tanaka, Renuka Sekar, Akram Khalil, David Baartz</td>
<td>Keisuke Tanaka, Elise Coghill, Emma Ballard, Renuka Sekar, Akram Khalil, David Baartz</td>
<td>Management of caesarean scar pregnancy with intravenous methotrexate infusion therapy</td>
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<td>Keisuke Tanaka, Akwasi Amoako, Akram Khalil, David Baartz</td>
<td>Keisuke Tanaka, Stephanie Zhu, Akwasi Amoako, Akram Khalil, David Baartz</td>
<td>Management of tubo-ovarian abscess: Single tertiary centre 5-year experience</td>
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2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
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<tr>
<td>Thangeswaran Rudra, Akawsi Amaoko, Umesha Pathmanathan</td>
<td>Rachel Wilkinson</td>
<td>Reduced Foetal Movements – Outcome following PSANZ Guidelines (Ongoing)</td>
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<tr>
<td>Fatema B Almughlliq, Yong Qin Koh, Hassendrini N Peiris, Kanchan Vaswani, and Murray D Mitchell (QUT)</td>
<td>Renuka Sekar, Akwasi A Amoako, Sailesh Kumar (WNS)</td>
<td>Chronic maternal/fetal inflammation differentially regulates eicosanoid enzyme gene expression in endometrium and trophoblast</td>
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<tr>
<td>Fatema B Almughlliq, Yong Qin Koh, Hassendrini N Peiris, Kanchan Vaswani, and Murray D Mitchell (QUT)</td>
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<td>Eicosanoid enzyme gene expression profiling in an in vitro co-culture model of maternal-fetal communication</td>
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<tr>
<td>Fatema B Almughlliq, Yong Qin Koh, Hassendrini N Peiris, Kanchan Vaswani, and Murray D Mitchell (QUT)</td>
<td>Renuka Sekar, Akwasi A Amoako, Sailesh Kumar (WNS)</td>
<td>Effect of 2-Arachidonoylglycerol on the production of prostaglandins by human amnion explants</td>
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<td>Fatema B Almughlliq, Yong Qin Koh, Hassendrini N Peiris, Kanchan Vaswani, and Murray D Mitchell (QUT)</td>
<td>Renuka Sekar, Akwasi A Amoako, Sailesh Kumar (WNS)</td>
<td>The effect of interleukin 1β on eicosanoid enzyme gene expression in endometrium and trophoblast cells in a co-culture model</td>
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<tr>
<td>Beckmann, M et al</td>
<td>Baker, K; Kirkman, A; Foxcroft, K</td>
<td>Prostaglandin Inpatient Induction of labour Compared with BALLOon Outpatient Induction of labour: a randomised controlled trial HREC Ref: HREC/14/MHS/20</td>
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<td>Tarnow-Mordi, W et al (University of Sydney)</td>
<td>Baker, K; Shipton, E; Foxcroft, K</td>
<td>Lactoferrin Evaluation in Anaemia in Pregnancy: LEAP-1 Should we treat iron deficiency anaemia of pregnancy with lactoferrin? A randomised controlled trial HREC/14/HNE/294</td>
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<td>Katie Groom</td>
<td>Renuka Sekar/ Pieter Koorts</td>
<td>Childhood Outcomes of STRIDER NZAus: a randomised controlled trial of sildenafil therapy in dismal prognosis early-onset intrauterine growth restriction (New Zealand and Australia)</td>
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<td>Jodie Painter (QIMR; CIA), Cecelia Lindgren (Oxford; CIB)</td>
<td>Hayden Homer (CIC)</td>
<td>Large-scale genome-wide analyses to investigate the genetic aetiology of miscarriage (NHMRC funded)</td>
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2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
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<tbody>
<tr>
<td>RMN Kimble</td>
<td>Prize winner Urogynaecology Category “Severe Perineal tear among primiparous women in the early 21st Century: Time trend, changing risk factors and clinical practice in maternity care”</td>
<td>RCOG World Congress March 2018 Singapore</td>
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<tr>
<td>RMN Kimble</td>
<td>Invited Keynote speaker Reproductive Outflow Tract Disorders in the paediatric and adolescent gynaecology population: Clinical Presentation, Diagnostic Complexities, Imaging, surgical and non-surgical management.”</td>
<td>5th International Gynaecology and Obstetrics Conference, Zurich, Switzerland October 2018</td>
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<tr>
<td>Karin Lust</td>
<td>MNHHS Staff Excellence Award – Leadership Category</td>
<td>2018 Staff Excellence Awards</td>
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<tr>
<td>Akwasi Amoako</td>
<td>Most Valued Teacher</td>
<td>Royal Brisbane Clinical Unit, University of Queensland Medical School</td>
</tr>
<tr>
<td>Akram Khalil</td>
<td>Award for Excellence in Teaching – Clinical Years</td>
<td>University of Queensland Medical Society</td>
</tr>
<tr>
<td>Hayden Homer</td>
<td>UQCCR PhD student of the Year 2018</td>
<td>Award to one of Prof Homer’s PhD students</td>
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<tr>
<td>David Baartz</td>
<td>Doctor of the Year Awards</td>
<td>RBWH Consultant of the Year</td>
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<tr>
<td>Keisuke Tanaka</td>
<td>Doctor of the Year Awards</td>
<td>RBWH Registrar of the Year</td>
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<tr>
<td>Amanda Harry</td>
<td>Doctor of the Year Awards</td>
<td>RBWH PHO of the Year</td>
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<tr>
<td>Hayden Homer</td>
<td>UQCCR ECR Paper of the month Award (October 2018)</td>
<td>Awarded for high-impact paper from Prof Homer’s team in Nature Communications</td>
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### 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
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<tr>
<td>Jodie Painter (QIMR; CIA), Cecelia Lindgren (Oxford; CIB), Hayden Homer (CIC)</td>
<td>WNS RBWH – Oocyte Biology Research Lab</td>
<td>Large-scale genome-wide analyses to investigate the genetic aetiology of miscarriage</td>
<td>NHMRC APP 1163040</td>
<td>$97,664</td>
<td>2018-2019 $195,328</td>
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<td>Jessica Greaney and Hayden Homer</td>
<td>WNS RBWH – Oocyte Biology Research Lab</td>
<td>Asymmetric division in mammalian oocytes</td>
<td>Australian Government RTP Scholarship</td>
<td>$28,000</td>
<td>2018-2019 $56,000</td>
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### Journal Articles:


Journal Articles: (cont):


20. M Khatun, C Martin, M Findlay, B Farthing, R Kimble; Severe perineal tear among primiparous women in the early 21st Century: time trend, changing risk factors and clinical practice in maternity care. BJOG-AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY. 125, 21-21 2018


23. Maher C. The way forward after the transvaginal mesh decade. The Obstetrician & Gynaecologist. 2018;20(1):7-9


29. Maher CF, Baessler KK, Barber MD, Cheon C, Consten ECI, Cooper KG, et al. Summary: 2017 International Consultation on Incontinence Evidence-Based Surgical Pathway for Pelvic Organ Prolapse. Female pelvic medicine and reconstructive surgery. 2018


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:


3. Hayden Homer. Invited Speaker: Is the PCO oocyte the same as a non-PCO oocyte? MSD SEED (Specialists Sharing Expertise, Education and Data) Meeting 2018: simply the best! What makes a good oocyte and embryo?


6. Prof Hayden Homer. Christopher Chen Chair in Reproductive Medicine: can new developments in Assisted Reproductive Technology (ART) address current threats to fertility? RBWH Symposium, September 2018


8. RMM Kimble Invited keynote speaker 5th International Conference of Obstetrics and Gynaecology, Zurich, Switzerland, 8-10 October “Reproductive Outflow Tract Disorders in the paediatric and adolescent gynaecology population: Clinical Presentation, Diagnostic Complexities, Imaging, surgical and non-surgical management.”

9. RMM Kimble Invited speaker, RBWH Symposium 2018; Management of Reproductive Outflow Tract Disorders: Classification, varying presentations, diagnostic complexities, appropriate surgical and non-surgical management, and recognition of life-threatening situations: extensive experience from a Quaternary Paediatric and Adolescent Gynaecology (PAG) Service in Australia over the 15 years

Oral Presentations:
2. **Keisuke Tanaka, Lars Eriksson, Andreas Obermair**: Incidence of adverse events in gynaecological hospital admissions: a systematic review. Chairman's choice session, Australasian Gynaecological Endoscopy and Surgery (AGES) Annual Scientific Meeting 2018
3. **Brooke O'Brien, J Mason, RMN Kimble**: Prevalence and Management of bleeding disorders in Adolescents presenting with Heavy Menstrual Bleeding. The Queensland Quaternary Paediatric and Adolescent Gynaecology Centre (HREC/17/QRBW/487). RCOG World Congress Singapore March 2018
5. **P Cingilogu, T Rudra, A Amoako**: Have rising classical caesarean section rates improved the outcome in a tertiary centre? 27th Annual RBWH Healthcare Symposium. September 2018
6. **Angela Ng, Matthew Smith, Yogesh Chadha & Akwasi Amoako**: Water versus land birth: a five-year retrospective cohort study of obstetric and neonatal outcomes at RBWH. 27th Annual RBWH Healthcare Symposium. September 2018
9. **Dr Christoph Lehner**: Fostering a neglected child; RBWH Symposium, September 2018

Poster Presentations:
2. **Brooke O'Brien, J Mason, RMN Kimble**: Prevalence and Management of bleeding disorders in Adolescents presenting with Heavy Menstrual Bleeding. The Queensland Quaternary Paediatric and Adolescent Gynaecology Centre (HREC/17/QRBW/487). NASPAG Florida April 2018
3. **O'Brien, B, Dihaya R, Kimble RMN**: HAIR-AN Syndrome: an extreme subphenotype of polycystic ovary syndrome. Be aware of the adolescent with extremely high androgen levels and severe hyperinsulinaemia. Queensland Paediatric and Adolescent Gynaecology Service. NASPAG Florida April 2018
5. **Kimble RMN**: O'Brien B. Management of Reproductive Track Disorders: Classification, varying presentations, diagnostic complexities, appropriate surgical and non-surgical management, and recognition of life-threatening situations: extensive experience from a Quaternary Paediatric and Adolescent Gynaecology Service (PAG) in Australia over the 15 years. (HREC/17/QRBW/488). RCOG World Congress Singapore March 2018 Top Scoring Abstract, Poster Category K: Paediatric and Adolescent Gynaecology
6. **K Strawson, RMN Kimble**: Vaginal disorders in the paediatric and adolescent gynaecology population: a 10-year study from the Queensland Paediatric and Adolescent Gynaecology Service, RCOG World Congress Singapore March 2018
12. **Brooke O'Brien, Jane Mason, RMN Kimble**: Prevalence and Management of bleeding disorders in Adolescents presenting with Heavy Menstrual Bleeding. The Queensland Quaternary Paediatric and Adolescent Gynaecology Centre (HREC/17/QRBW/487). Accepted for poster NASPAG Florida April 2018
15. **T Rudra, A Craven**: Renal angiolioma in pregnancy Case report and review – SOMANZ Conference – Cairns – July 2018
16. **T Rudra, P Cingilogu**: Has rising classical caesarean section rate influenced the maternal and perinatal outcome in a tertiary centre? Presented at the RCOG World Congress – Singapore – March 2018

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Poster Presentations (cont):

17. P. Kosanam, T Rudra Is Modern Obstetric Practice the cause of rising Peripartum Hystrectomy? – Presented at the RCOG World Congress – Singapore – March 2018
18. T Rudra Classical caesarean section in the 21st century – Presented at the RCOG World Congress – Singapore – March 2018
21. P Chung, T Rudra Outcome following Placenta Previa in a Tertiary Centre: presented at the RBWH Symposium – Brisbane – August 2018
Obstetric Medicine

The department of Obstetrics medicine conducts research focussed on the health care of women with complex pregnancies. The aim is to improve outcomes for these women and their babies. The department is involved in a number of collaborative research projects including a large NHMRC funded study evaluating the guided treatment of asthma in pregnancy. Other research studies focus on maternal metabolism, in particular breastfeeding in women with type I and type II diabetes, ketones in pregnancy and diabetes and dietetic interventions for pregnant women.

The department has been active in presenting its work at multiple conferences with twelve oral (8 invited) and 22 poster presentations conducted throughout the year. In addition to this, the department has also published 18 journal articles and won two poster prizes at the Annual SOMANZ Scientific Meeting for Best Clinical Poster and Best Scientific Poster.

Supervised Post-Graduate Research Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc.)</th>
<th>University</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
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</thead>
<tbody>
<tr>
<td>Angela North</td>
<td>Masters, UQ (2016 – ongoing)</td>
<td></td>
<td>Therapeutic heparin antenatal and peripartum</td>
<td>Karin Lust, Karen Whitfield, Helen Barrett</td>
</tr>
<tr>
<td>Naomi Achong</td>
<td>PhD</td>
<td></td>
<td>Breastfeeding in Type 1 Diabetes</td>
<td>Leonie Callaway, Emma Duncan, David McIntyre</td>
</tr>
<tr>
<td>Alka Kothari</td>
<td>PhD</td>
<td></td>
<td>Forgotten Fathers</td>
<td>Leonie Callaway, Joel Dulhunty</td>
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<tr>
<td>Helen Robinson</td>
<td>PhD</td>
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<td>Ketosis in Pregnancy</td>
<td>Leonie Callaway, Helen Barrett, Marloes Dekker</td>
</tr>
<tr>
<td>Fiona Britten</td>
<td>MPhil</td>
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<td>Breastfeeding in Type 2 Diabetes</td>
<td>Leonie Callaway, Emma Duncan</td>
</tr>
<tr>
<td>Shipton E</td>
<td>PhD</td>
<td></td>
<td>Models of care and breastfeeding</td>
<td>Leonie Callaway, Susan de Jersey, Katie Foxcroft</td>
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</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
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<tbody>
<tr>
<td>Katie Foxcroft</td>
<td>Adjunct Fellow</td>
<td>WNS and Perinatal Research Centre</td>
<td>University of Qld (2016 – current)</td>
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<tr>
<td>Annelise Kirkham</td>
<td>Research Nurse</td>
<td>WNS and Perinatal Research Centre</td>
<td></td>
</tr>
<tr>
<td>Felicity Stalley</td>
<td>Research Nurse</td>
<td>WNS and Perinatal Research Centre</td>
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<tr>
<td>Karen Taylor</td>
<td>Research Nurse</td>
<td>WNS and Perinatal Research Centre</td>
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<tr>
<td>Lisa McKeown</td>
<td>Research Nurse</td>
<td>WNS and Perinatal Research Centre</td>
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<tr>
<td>Gill Lack</td>
<td>Research Nurse</td>
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<tr>
<td>Kellie McGrory</td>
<td>Research Nurse</td>
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<tr>
<td>Kylie Smart</td>
<td>Research Nurse</td>
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<tr>
<td>Emma Shipton</td>
<td>Research Nurse</td>
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<tr>
<td>Neroli Mack</td>
<td>Research Nurse</td>
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<tr>
<td>Bonnie McNeill</td>
<td>Research Nurse</td>
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<tr>
<td>Linda Cobbald</td>
<td>Research Nurse</td>
<td>WNS and Perinatal Research Centre</td>
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### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeanette Tyler, Katie Foxcroft</td>
<td></td>
<td>Feasibility and acceptability of web-based auditing of hospital staff and maternity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>patients for compliance with Baby Friendly Health Initiative (BFHI) standards</td>
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</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

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<thead>
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<th>Collaborative Lead Researchers</th>
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</thead>
<tbody>
<tr>
<td>Mike Beckmann</td>
<td>Karen Baker</td>
<td>Prostaglandin Inpatient Induction of labour Compared with BALLOon Outpatient Induction</td>
</tr>
<tr>
<td></td>
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<td>of labour: a randomised controlled trial</td>
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<tr>
<td>Vicky Flenady</td>
<td>Yogesh Chada</td>
<td>My Baby's Movements: a stepped wedge cluster randomised controlled trial to raise</td>
</tr>
<tr>
<td></td>
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<td>maternal awareness of fetal movements during pregnancy</td>
</tr>
<tr>
<td>Katie Groom</td>
<td>Renuka Sekar/ Pieter Koorts</td>
<td>Childhood Outcomes of STRIDER NZAus: a randomised controlled trial of sildenafil</td>
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<td>therapy in dismal prognosis early-onset intrauterine growth restriction (New Zealand</td>
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<td></td>
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<td>and Australia)</td>
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<td>Murphy V, Gibson P, Hensley M,</td>
<td>Callaway L, Colditz P, Barrett H</td>
<td>Breathing for Life Trial</td>
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<td>Mattes J, Giles W, Peek M,</td>
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<td>Registry of pregnancy and cardiac disease</td>
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<td>Bisits A, McCaffery K</td>
<td>Lust K, Parsonage W</td>
<td>NSW longitudinal study of first-time mothers with heart disease and their babies</td>
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<tr>
<td>EURObservational research</td>
<td>Lust K, Parsonage W</td>
<td>Links2HealthierBubs: influenza and pertussis vaccine effectiveness in pregnancy</td>
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<td>Sullivan E, Cordina R, Simmons</td>
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<td>Vaughan G, Li Z, O'Brien A,</td>
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<td>Turnbull K, Peek M, Celermajer</td>
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<td>D, Parsonage W, Lam L, Zentner</td>
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<td>Blyth CC, Van Buynder PG,</td>
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2018 Research Awards and Achievements

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<tr>
<th>Recipient</th>
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<tr>
<td>Madeline Duke</td>
<td>Poster Prize for Best Clinical Poster</td>
<td>SOMANZ Annual Scientific Meeting Cairns July 2018</td>
</tr>
<tr>
<td>Kate Poulsen</td>
<td>Poster Prize for Best Scientific Poster</td>
<td>SOMANZ Annual Scientific Meeting Cairns July 2018</td>
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</table>

2018 Research Grants – Awarded

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<tr>
<th>Investigators (RBWH staff in bold)</th>
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<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simmons D, Callaway L, Dekker M, Ng D</td>
<td>Obstetric medicine</td>
<td>Trophoblast cell-cell fusion in preeclampsia</td>
<td>National Health and Medical Research Council</td>
<td>$162,424.33</td>
<td>$487,273 (2017-2019)</td>
</tr>
<tr>
<td>Shipton E</td>
<td>Obstetric Medicine</td>
<td>PhD models of care and Breastfeeding</td>
<td>RBWH Foundation</td>
<td>$38082.52</td>
<td>$3808.52 (2018)</td>
</tr>
</tbody>
</table>

2018 Research Publications

Journal Articles

Journal Articles (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

1. Helen Robinson: Low-value interventions in obstetric medicine; Invited oral SOMANZ Cairns July 2018

2. Prof Shaun Brennecke, Dr David Williams, Prof Leonie Callaway, Prof Annexarie Hennessy, Prof Michael Peek: debate on first trimester screening for preeclampsia. Invited oral talk SOMANZ Cairns July 2018

3. Dr Karin Lust, Dr Samantha Scherman, Dr James Sartain, A/Prof Leeanne Grigg, A/Prof Dorothy Radford: interactive case discussion including cardiology and stroke. Invited panelist SOMANZ Cairns July 2018


5. Helen Robinson, Irena Ide, Karin Lust, Catherine Marnoch, Mark Morton, Joanne Siad, Jason Soon: low-value interventions in obstetric medicine. Invited oral talk SOMANZ Cairns July 2018


7. Karin Lust, Pregnancy and heart failure, Statewide Heart failure services course, Managing heart failure from hospital to home RBWH 31 August 2018

8. Karin Lust, Helen Barrett, Kellie Tathem, Obstetric Medicine Speaker & Chair, RANZCOG, Pre-examination Course, Brisbane May 2018.

Oral Presentations:

1. Matthew Bright, Gunjan Chawla, Leonie Callaway, Victoria Eley: Maternal and fetal outcomes in super-obese women. Accepted for oral talk RCOG March 2018

2. Matthew Bright, Gunjan Chawla, Leonie Callaway, Victoria Eley: Maternal and fetal outcomes in super-obese women. Accepted for oral talk RCOG March 2018

3. Bond, S, Young, L, Poulsen, K, Barrett, H, Taylor, A and Barrett, C. Vaccination decisions and incidence of neonatal infections in mothers exposed to biological DMARDs during pregnancy. Oral abstract (New Investigator Free Papers) presented (by Bond, S) at Australian Rheumatology Association (ARA) 58th Annual Scientific Meeting, Melbourne, 2018 May

Poster Presentations:

1. Michelle Cole, Leonie Callaway, Ann-Maree Craven, Karin Lust, Penny Wolski, Amanda Beech: Hyperemesis Gravidarum and association with Helicobacter Pylori. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

2. Michelle Cole, Penny Wolski, Leonie Callaway, Amanda Beech, Ann-Maree Craven: Case Report of Cyclosporin Levels in Breast Milk. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

3. Ann-Maree Craven: Tacrolimus nephrotoxicity imitating pre-eclampsia – a case series. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

4. Karmen Lim, Penny Wolski, Renuka Sekar, Ann-Maree Craven: NSAID-Induced acute kidney injury in the post-partum period – a case series. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

5. Juliana C Ding, Karin Lust: Live Pregnancy in a heart, Lung, and Liver transplant patient: a case report. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

6. Madeline Duke, Helen Barrett, Carel Pretorius, Fiona Britten, Peter Donovan: Maternal metyrapone use during breastfeeding: safe for the breastfed infant. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

7. Madeline Duke, Leonie Callaway, Caroline Tallis: steroid refractory acute cellular rejection of a liver transplant in pregnancy: a case report. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

8. Dr Thangeswaran Rudra, Dr Jessica Phillips-Yelland, Dr Dayae Lah, Dr Penny Wolski, A/Prof Karin Lust: has modern management of DKP improved the outcome? Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

9. Fallon Noon, Fiona Britten: Heparin induced liver failure in pregnancy: a case report. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

10. Stephanie Bond, Laurel Young, Katherine Poulsen, Helen Barrett, Andrew L Taylor, Claire Barrett: Vaccination Decisions and Incidence of Serious Neonatal Infections in Mothers Exposed to Biologicals and Targeted Synthetic Drugs During Pregnancy. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

11. Dr Thangeswaran Rudra, Anne-Maree Crave: Real angiolopoma in pregnancy – case report and review. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

12. Archee Singh, Leonie Callaway, Penny Wolski: Intracranial meningioma in pregnancy presenting with Visual Field Defects. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

13. Archee Singh, Leonie Callaway, Penny Wolski, Fiona Britten, Winifred Lee: An Itch You Can’t Scratch. Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018

14. Keeri Young, Michael d’Emden, Katherine Poulsen, Penny Wolski, Annabelle Lamprecht, Michelle Cole: morbid insulin resistance in a pregnant patient with Type 1 Diabetes mellitus (T1DM). Accepted for poster SOMANZ Annual Scientific Meeting Cairns July 2018


17. Dr Matthew Bright, Dr Gunjan Chawia, Prof Leonie Callaway, Assoc Prof Victoria Eley. Maternal and fetal outcomes in super-obese women. In: proceedings of the RBWH (RBWH) Healthcare Symposium; 2018 September 11-13; Brisbane, Australia

18. Faisal Altemani, Helen L. Barrett, Luisa Gomez-Arango, H. David McIntyre, Leonie K. Callaway, Marloes Dekker Nitert. Women who develop preeclampsia have lower abundance of the butyrate-producer Coprococcus in their gut microbiota. In: proceedings of the RBWH (RBWH) Healthcare Symposium; 2018 September 11-13; Brisbane, Australia


22. Thomas Basso, Dr Christoph Lehner, Dr Annabelle Lamprecht, A/Professor Karin Lust, Professor William Parsonage, A/Professor Haris Haqani, Dr Renuka Sekar. Nadolol use in pregnancy and Small for Gestational Age (SGA) newborns at term: a case series. In: Proceedings of the RBWH (RBWH) Healthcare Symposium; 2018 September 11-13; Brisbane, Australia.

Other Communications and Outputs:

Abstracts

Schoenaker DA, Mishra G, Callaway L. Women with childhood trauma who develop depression prior to pregnancy are at increased risk of developing gestational diabetes. ADIPS Annual Scientific Meeting, Adelaide, August 2018

Duke M, Callaway L. Complex Case Presentation – Preconception Care in a Woman Following Pancreas/Kidney Transplant. ADIPS Annual Scientific Meeting, Adelaide, August 2018.
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 2018. We were pleased to be awarded research grants in 2018 from RBWH Foundation, Financial Markets Foundation for Children and two NHMRC project grants. Prof Colditz’ NHMRC study will examine placental stem cell treatment to protect babies’ brains. This novel project uses the baby’s own placenta to source the stem cells. The use of human cells has the merit of being immediately relevant to translate to clinical trials. Dr Wixey’s NHMRC project will study the role of inflammation and brain injury in the growth restricted baby. Growth restriction during pregnancy can damage the baby’s brain and result in poor outcomes. This study will examine whether a readily available and safe anti-inflammatory treatment can reduce brain injury following intrauterine growth restriction.

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 and conference presentations in 2018. Dr Barbara Lingwood and Dr Yvonne Eiby also continue their 2017 NHMRC project examining whether early blood transfusion is more effective than saline to improve cerebral oxygen delivery in very preterm neonates.

The RBWH NICU will contribute to a new multicentre Phase III randomised controlled trial funded by NHMRC to determine whether Erythropoietin treatment can prevent adverse outcomes in babies with HIE. Other ongoing clinical trials which utilise state-of-the-art methods and techniques include predicting motor outcomes in preterm babies using MRI, 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 Joie De Vie RBWHF Butterfly Ball, held at the Hilton, was a great success and enjoyed by many. We would like to thank RBWH 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies (e.g. PhD, Masters etc)</th>
<th>University (duration)</th>
<th>Research Project Title</th>
<th>Supervisors (RBWH staff in bold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD Abdul Awal</td>
<td>PhD, UQ – Awarded 2018</td>
<td></td>
<td>Classification and localization of neonatal EEG abnormalities using time-frequency image processing based neural network and support vector machine</td>
<td>Paul Colditz, Boualem Boashash</td>
</tr>
<tr>
<td>Ms Nada Al-Theyab</td>
<td>PhD, UQ – Awarded 2018</td>
<td></td>
<td>Preterm infant body composition</td>
<td>Barbara Lingwood, Timothy Donovan, Paul Colditz</td>
</tr>
<tr>
<td>Ms Rebecca Caesar</td>
<td>PhD, UQ (2012-2018)</td>
<td></td>
<td>Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants</td>
<td>Roslyn Boyd, Paul Colditz</td>
</tr>
<tr>
<td>Mr Matthew Fielder</td>
<td>MPhil, UQ (2014-2018)</td>
<td></td>
<td>Novel therapies for seizures following hypoxic-ischaemic injury in neonates</td>
<td>Stella Tracey Bjorkman, Paul Colditz</td>
</tr>
<tr>
<td>Ms Elizabeth Forbes</td>
<td>MPhil, UQ (2013-2018)</td>
<td></td>
<td>Changes in cardiac structure and biochemistry during transition to extra uterine life in preterm and term piglets</td>
<td>Yvonne Eiby, Barbara Lingwood, Karen Moritz</td>
</tr>
<tr>
<td>Ms Kate Goasdoue</td>
<td>PhD, UQ (2015-2018)</td>
<td></td>
<td>A novel therapy for neonatal seizures</td>
<td>Stella Tracey Bjorkman, Julie Wixey</td>
</tr>
<tr>
<td>Ms Ji Yeon Kim</td>
<td>PhD, UQ (2015-2018)</td>
<td></td>
<td>Understanding how remote application of near infrared light induces neuroprotection</td>
<td>Paul Colditz, Jonathon Stone</td>
</tr>
</tbody>
</table>
## Supervised Post-Graduate Research Students (cont)

<table>
<thead>
<tr>
<th>Name</th>
<th>Current Studies</th>
<th>Research Project Title</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Annice Kong</td>
<td>PhD, UQ</td>
<td>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</td>
<td>Paul Colditz, Simon Finnigan, Roslyn Boyd, Stephen Rose</td>
</tr>
<tr>
<td>Dr Melissa Lai</td>
<td>PhD, UQ (2015-2018)</td>
<td>Environmental manipulation of the very preterm infant: can dense array EEG detect developmental differences at term equivalent age</td>
<td>Paul Colditz, Simon Finnigan, Jurgen Fripp</td>
</tr>
<tr>
<td>Dr Norman Ma</td>
<td>MPhil, UQ</td>
<td>Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions</td>
<td>Stella Tracey Bjorkman, Craig Winter, Paul Colditz</td>
</tr>
<tr>
<td>Ms Stephanie Miller</td>
<td>PhD, UQ</td>
<td>Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury</td>
<td>Stella Tracey Bjorkman, Peter Noakes</td>
</tr>
<tr>
<td>Mr James Morong</td>
<td>MPhil, UQ</td>
<td>A comparative study of in-hospital maternal mortality ratio (MMR) between the United States of America and Australia</td>
<td>Paul Colditz, Alfred Robichaux</td>
</tr>
<tr>
<td>Ms Abirami Ratnasingham</td>
<td>PhD, UQ (2016-2019)</td>
<td>Long term consequences of altered neonatal adiposity</td>
<td>Barbara Lingwood, Timothy Donovan, Marloes Nijert Dekker, Peter Davies</td>
</tr>
<tr>
<td>Ms Sonia Sam</td>
<td>PhD, UQ (2011-2018)</td>
<td>Cardiovascular factors associated with poor outcome in preterm infants</td>
<td>Barbara Lingwood, Paul Colditz</td>
</tr>
<tr>
<td>Mr Timothy Sherry</td>
<td>PhD, UQ (2015-2018)</td>
<td>Identification of brain events via electroencephalogram EEG through blind source separation</td>
<td>Paul Colditz</td>
</tr>
<tr>
<td>Dr Karen Barlow</td>
<td>PhD, UQ (2015-2018)</td>
<td>Melatonin in improving outcome after acquired brain injury</td>
<td>Ros Boyd, Paul Colditz</td>
</tr>
<tr>
<td>Mr Caleb Stewart</td>
<td>MPhil, UQ</td>
<td>Modelling the impact of preterm birth on neurodevelopmental trajectories via neonatal MRI maturation index</td>
<td>Paul Colditz, Kerstin Pannek</td>
</tr>
<tr>
<td>Mr Elliot Teo</td>
<td>PhD, UQ (2017-2020)</td>
<td>Novel adjunctive therapies for the treatment of neonatal hypoxic-ischemic encephalopathy</td>
<td>Tracey Bjorkman, Paul Colditz</td>
</tr>
<tr>
<td>Ms Lara Jones</td>
<td>PhD, UQ (2018-2021)</td>
<td>Effect of placental stem cells on the blood brain barrier in a model of hypoxic-ischemic encephalopathy</td>
<td>Paul Colditz, Tracey Bjorkman</td>
</tr>
</tbody>
</table>

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Colditz</td>
<td>Professor of Perinatal Medicine</td>
<td>Clinical neonatology, neuroscience, biomedical signal processing</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Tracey Bjorkman</td>
<td>Lions Senior Medical Research Fellow</td>
<td>Hypoxic-ischemic brain injury and seizures in the neonate</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Nigel Barnett</td>
<td>Honorary Senior Fellow</td>
<td>The effects of hypoxia/ischaemia in visual development and disease</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Boualem Boashash</td>
<td>Professor</td>
<td>Time-frequency signal analysis, biomedical signal processing, spectral estimation, signal detection and classification</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Kirat Chand</td>
<td>Research Officer</td>
<td>Hypoxic-ischaemic brain injury, growth restriction, inflammation and seizures in the neonate</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Timothy Donovan</td>
<td>Associate Professor</td>
<td>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 gastrochisis</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Yvonne Elby</td>
<td>Research Fellow</td>
<td>The cardiovascular system of preterm infants</td>
<td>University of Queensland (current)</td>
</tr>
<tr>
<td>Christine East</td>
<td>Honorary Professor</td>
<td>Fetal monitoring</td>
<td>Monash University (current)</td>
</tr>
<tr>
<td>Simon Finnigan</td>
<td>Senior Research Fellow</td>
<td>Brain monitoring techniques to improve outcomes for critically ill patients (e.g. extremely premature babies; stroke patients)</td>
<td>University of Queensland (current)</td>
</tr>
</tbody>
</table>
### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katie Foxcroft</td>
<td>Adjunct Fellow</td>
<td>Clinical Trial Coordinator</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Janet Hammill</td>
<td>Honorary Senior Fellow</td>
<td>Collaboration for Alcohol Related Developmental Disorders</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Annelise Kirkham</td>
<td>Research Nurse</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Aven Lee</td>
<td>Postdoctoral Research Fellow</td>
<td>Molecular biology and protein biology of the brain</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Melissa Lai</td>
<td>Senior Lecturer</td>
<td>EEG in preterm babies</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Gillian Lack</td>
<td>Research Nurse</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Barbara Lingwood</td>
<td>Senior Research Fellow</td>
<td>Cardiovascular function in the preterm infant, infant body composition</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Penny Love</td>
<td>Honorary Fellow</td>
<td>Preterm massage study</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>John Luff</td>
<td>Senior Research Assistant</td>
<td>Neuroprotective strategies for the newborn</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Eugene Lumbers</td>
<td>Honorary Professor</td>
<td>Fetal origins of adult diseases, hypertension, development of control of the circulation, exercise and training, and renal development and function</td>
<td>University of Newcastle</td>
</tr>
<tr>
<td>Kellie McGorry</td>
<td>Research Nurse</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Lipsa Mohanty</td>
<td>Senior Research Technician</td>
<td>Neuroprotective strategies for the newborn</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Randal Moldrich</td>
<td>Honorary Fellow</td>
<td>Preterm brain outcomes</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Lisa McKeown</td>
<td>Research Nurse</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Stephanie Miller</td>
<td>Research Officer</td>
<td>Hypoxic-isaemic brain injury and seizures in the neonate</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Kym Morris</td>
<td>Research Assistant</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Margo Pritchard</td>
<td>Honorary Senior Fellow</td>
<td>Child health surveillance and intervention</td>
<td>Australian Catholic University</td>
</tr>
<tr>
<td>Stephen Rose</td>
<td>Honorary Professor</td>
<td>Development and application of advanced MRI techniques to aid the detection and monitoring of disease processes</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Kylie Smart</td>
<td>Research Nurse</td>
<td>Clinical Trials</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Karen Taylor</td>
<td>Research Nurse</td>
<td>Clinical Trials Group supporting: Enhanced parenting to improve developmental outcomes in preterm infants</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Leanne Winter</td>
<td>Project Coordinator</td>
<td>Prem Baby Triple P</td>
<td>University of Queensland</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Research Fellow</td>
<td>Hypoxic-isaemic brain injury, intrauterine growth restriction and inflammation in the neonatal brain</td>
<td>University of Queensland</td>
</tr>
</tbody>
</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Colditz</td>
<td>Tracey Bjorkman, Julie Wixey</td>
<td>Inflammation in the growth restricted newborn</td>
</tr>
<tr>
<td>Paul Colditz</td>
<td>Barbara Lingwood, Tracey Bjorkman, Julie Wixey, Paul Dawson, Roslyn Boyd, Yvonne Eiby</td>
<td>A pre-clinical intensive care facility to research long-term outcomes in neonates</td>
</tr>
<tr>
<td>Paul Colditz</td>
<td>Wixey J, Lai M, Bjorkman ST</td>
<td>Stem cell treatment to protect the growth restricted newborn brain</td>
</tr>
<tr>
<td>Mel Lai</td>
<td>Bjorkman ST, Wixey J, Colditz P</td>
<td>CO2 gas as an adjunctive neuroprotective therapy for hypoxic-ischemic encephalopathy (HIE)</td>
</tr>
<tr>
<td>Paul Colditz</td>
<td>Khosrotehrani K, Julie Wixey</td>
<td>Improving brain outcomes in the growth restricted newborn using placental stem cell treatment</td>
</tr>
<tr>
<td>Paul Colditz</td>
<td>Khosrotehrani K, Bjorkman T, Patel J, Wixey J</td>
<td>Stem cell treatment for neonatal hypoxic ischemic encephalopathy</td>
</tr>
</tbody>
</table>
### 2018 Current RBWH Research Group / Department Led Research Activity (cont)

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Colditz, Kiarash Khosrotehrani</td>
<td>Stem cell treatment for neonatal brain injury</td>
</tr>
<tr>
<td>Paul Colditz, Julie Wixey, Stella T Bjorkman</td>
<td>Reducing inflammation in growth restricted newborn brains</td>
</tr>
<tr>
<td>Paul Colditz, Kiarash Khosrotehrani, Stella T Bjorkman, Nick Fisk, Barbara Lingwood, Julie Wixey</td>
<td>Improving brain oxygen levels in babies using stem cell treatment</td>
</tr>
<tr>
<td>Barbara Lingwood, Paul Colditz, Marloes Dekker-Nitert</td>
<td>Long-term consequences of altered neonatal adiposity</td>
</tr>
<tr>
<td>Michael Stark, Paul Colditz, Ian Wright, Yvonne Elby</td>
<td>A pre-clinical trial of early blood transfusion for improving cerebral oxygen delivery in very preterm neonates</td>
</tr>
<tr>
<td>Melissa Lai, Stella T Bjorkman, Kirat Chand</td>
<td>Novel approaches to protecting the newborn brain</td>
</tr>
<tr>
<td>Barbara Lingwood, Marloes Dekker-Nitert, Tim Donovan, Peter Davies, Chong</td>
<td>Long-term consequences of altered neonatal adiposity</td>
</tr>
<tr>
<td>Katie Groom</td>
<td>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)</td>
</tr>
<tr>
<td>Pieter Koorts, William Tarnow-Mordi</td>
<td>Does lactoferrin improve survival free from morbidity in very low birth weight infants? Lactoferrin Infant Feeding Trial: a randomised controlled trial</td>
</tr>
<tr>
<td>Roslyn Boyd, Atul Malhotra, Stephen Rose, Boualem Boashash, Michael Ditchfield, Michael Fahey, Kerstin Pannek, Randal Moldrich</td>
<td>Neurodevelopment of the preterm infant</td>
</tr>
<tr>
<td>Matthew Sanders, Roslyn Boyd, Margo Pritchard, Peter Gray, Michael O’Callaghan, Virginia Slaughter, Koa Whittingham</td>
<td>Enhanced parenting capacity to improve developmental outcomes in preterm infants</td>
</tr>
<tr>
<td>Barbara Lingwood, Kathryn Buller</td>
<td>BRAIN – Brain Research Advances in Newborns</td>
</tr>
</tbody>
</table>

### 2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Roberts, Michael Breakspear, Sampsa Vanhatalo, Paul Colditz</td>
<td>Novel methods for early bedside detection and prognosis of preterm brain injury</td>
<td></td>
</tr>
<tr>
<td>Julie Wixey, Kirat Chand, Tracey Bjorkman, Paul Colditz</td>
<td>Contribution of systemic inflammatory response to brain injury in growth restricted newborns</td>
<td></td>
</tr>
<tr>
<td>Roslyn Boyd, Paul Colditz, S Rose, M Karunanithi, A Smith, A Scuffham, P Edwards, I Novak, C Morgan, N Badawi</td>
<td>Advancing Cerebral Palsy in Queensland</td>
<td></td>
</tr>
<tr>
<td>Stella Tracey Bjorkman, Paul Colditz, Sampsa Vanhatalo</td>
<td>Carbon dioxide as a treatment for seizures in the newborn</td>
<td></td>
</tr>
<tr>
<td>Paul Dawson, E Hurriaan, Vicki Flenady, Barbara Lingwood, Yvonne Eiby, Paul Colditz, Pieter Koorts, Kumar</td>
<td>Improving health outcomes for preterm infants using a preclinical Pig Translational model (PigTail study)</td>
<td></td>
</tr>
<tr>
<td>Stella Tracey Bjorkman</td>
<td>Seizures and injury in the newborn hypoxic-ischemic brain</td>
<td></td>
</tr>
</tbody>
</table>
## 2018 Research Awards and Achievements

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Award</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yvonne Eiby</td>
<td>Publication of the Month, June and September</td>
<td>UQCCR</td>
</tr>
<tr>
<td>Elliot Teo</td>
<td>Student Poster Winner</td>
<td>UQCCR 10-year Symposium</td>
</tr>
<tr>
<td>Elliot Teo</td>
<td>Top 10 short listing for the translational relevance prize</td>
<td>Translational Research Symposium 2018</td>
</tr>
<tr>
<td>Elliot Teo</td>
<td>Travel Award</td>
<td>Neuroimmunology Australia</td>
</tr>
<tr>
<td>Abirami Ratnasingham</td>
<td>Best Oral Presentation</td>
<td>Queensland Perinatal Consortium (QPaC) Conference</td>
</tr>
<tr>
<td>Abirami Ratnasingham</td>
<td>Clinical Research Award</td>
<td>Royal Brisbane and Women’s Hospital (RBWH) Healthcare Symposium</td>
</tr>
<tr>
<td>Abirami Ratnasingham</td>
<td>Three Minute Thesis (JMT) Competition Northside Heat: Winner</td>
<td>UQ Faculty of Medicine</td>
</tr>
<tr>
<td>Tracey Bjorkman</td>
<td>Fellowship</td>
<td>UQ Faculty of Medicine</td>
</tr>
<tr>
<td>Tracey Bjorkman</td>
<td>LMRF Ian Fraser Human Award</td>
<td>Lions Medical Research Foundation</td>
</tr>
<tr>
<td>Kirat Chand</td>
<td>Publication of the Month, February</td>
<td>UQCCR</td>
</tr>
<tr>
<td>Kirat Chand</td>
<td>ECR Oral presentation award – runner up</td>
<td>Fetal and Neonatal Workshop of Australia and New Zealand, Queenstown, New Zealand</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Lions Dunning-Orlich NHMRC New Investigator Award</td>
<td>The University of Queensland</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Early Career Researcher Poster Winner</td>
<td>UQCCR 10-year Symposium</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Collaboration Travel Grant</td>
<td>UQCCR</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Publication of the Month April</td>
<td>UQCCR</td>
</tr>
<tr>
<td>Julie Wixey</td>
<td>Early Career Investigator Prize for best oral presentation</td>
<td>Fetal and Neonatal Workshop of Australia and New Zealand, Queenstown, New Zealand</td>
</tr>
</tbody>
</table>

## 2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lai M, Bjorkman ST, Wixey J, Colditz P</td>
<td>Perinatal Research Centre</td>
<td>CO2 gas as an adjunctive neuroprotective therapy for hypoxic-ischemic encephalopathy (HIE)</td>
<td>RBWH and RBWH Research Project Grant</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td><strong>Colditz P, Wixey J, Lai M, Bjorkman ST</strong></td>
<td>Perinatal Research Centre</td>
<td>Stem cell treatment to protect the growth restricted newborn brain</td>
<td>RBWH and RBWH Research Project Grant</td>
<td>$40,000</td>
<td>$40,000 (2018)</td>
</tr>
<tr>
<td><strong>Colditz P, Khosrotehrani K, Bjorkman T, Patel J, Wixey J</strong></td>
<td>Perinatal Research Centre</td>
<td>Stem cell treatment for neonatal hypoxic ischemic encephalopathy</td>
<td>NHMRC Project Grant</td>
<td>$318,065</td>
<td>$954,195 (2018-2020)</td>
</tr>
<tr>
<td>James Roberts, Michael Breakspear, Sampsa Vanhatalo, Paul Colditz</td>
<td>Perinatal Research Centre</td>
<td>Novel methods for early bedside detection and prognosis of preterm brain injury</td>
<td>NHMRC Project Grant</td>
<td>$210,293</td>
<td>$630,880 (2018-2020)</td>
</tr>
<tr>
<td><strong>Colditz P, Khosrotehrani K, Wixey J</strong></td>
<td>Perinatal Research Centre</td>
<td>Improving brain outcomes in the growth restricted newborn using placental stem cell treatment</td>
<td>Financial Markets Foundation for Children</td>
<td>$46,666</td>
<td>$140,000 (2018-2020)</td>
</tr>
<tr>
<td><strong>Colditz P, Bjorkman T, Wixey J</strong></td>
<td>Perinatal Research Centre</td>
<td>Inflammation in the growth restricted newborn brain</td>
<td>RBWH HIRF Research Project</td>
<td>In kind</td>
<td>In kind</td>
</tr>
</tbody>
</table>
2018 Research Publications

Journal Articles:


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:


2. Paul Colditz. Invited speaker, Best practice in research translation utilising new technologies to improve outcomes in maternity and infant specialty hospitals. 42nd World Hospital Congress. Brisbane. 10-12 October 2018

3. Finnigan S. EEG changes in stroke, aging and cognitive decline. Applied Neuroscience Society of Australasia Annual Conference. 2018

Oral Presentations:

1. Kong AHT, Lai MM, Finnigan S, Waer RS, Boyd RN, Colditz PB. Using EEG and MRI at term equivalent age in very preterm infants to predict cognitive outcome. 22nd Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ); Auckland, New Zealand: Journal of Paediatrics and Child Health 2018;54(S1):28


Oral Presentations: (cont):

5. Kong, Finnigan, Pannek, Fripp, Ware, George, Rose, Boyd, Colditz. Using EEG and MRI at term equivalent age in very preterm infants to predict visual and cognitive outcome. 38th ANS Annual Scientific Meeting. Brisbane, Australia. Dec 4-6, 2018


7. Abirami Ratnasingham, Timothy Donovan, Yvonne Eiby, Marloes Dekker Nitert, Barbara Lingwood (2018) Reduced fat-free mass at birth is a predictor of childhood obesity. Third annual meeting of the Queensland Perinatal Consortium, Brisbane, Australia

8. Ratnasingham, Abirami, Eiby, Yvonne A., Dekker Nitert, Marloes, Donovan, Timothy and Lingwood, Barbara E. Reduced fat-free mass at birth is a predictor of childhood obesity. UQ Faculty of Medicine Clinical and Public Health Postgraduate Symposium, Brisbane, Australia. 22-23 November 2018


11. Abirami Ratnasingham, Timothy Donovan, Yvonne Eiby, Marloes Dekker Nitert, Barbara Lingwood. Reduced fat-free mass at birth is a predictor of childhood obesity. 26th Annual Royal Women's Hospital Healthcare Symposium, Brisbane, Australia. 11-13 September 2018


Poster Presentations:


3. Kong, Finnigan, Pannek, Ware, George, Rose, Boyd, Colditz. Brain microstructure assessed using MRI predicts cognitive function at 12 months of age in very preterm infants. 38th ANS Annual Scientific Meeting. Brisbane, Australia. Dec 4-6, 2018

4. Yvonne A Eiby, S. Tracey Bjorkman, Stephanie M Miller, Kirat K Chand, Paul B Colditz, Barbara E Lingwood. (2018) Volume expansion using saline fails to support blood pressure and is associated with white matter injury in preterm piglets. Third annual meeting of the Queensland Perinatal Consortium, Brisbane, Australia


6. Ratnasingham, Abirami, Eiby, Yvonne A., Dekker Nitert, Marloes, Donovan, Timothy and Lingwood, Barbara E. Reduced fat-free mass at birth is a predictor of childhood obesity. UQ Centre for Clinical Research 10 Year Anniversary Symposium, Brisbane, Australia. 10 September 2018


8. Yvonne A Eiby, S. Tracey Bjorkman, Stephanie M Miller, Kirat K Chand, Paul B Colditz, Barbara E Lingwood. (2018) Volume expansion using saline fails to support blood pressure or reduce white matter injury in preterm piglets. UQCCR 10 year anniversary open day, Brisbane, Australia


12. Kong, Pannek, Finnigan, Ware, George, Rose, Boyd, Colditz. Brain microstructure assessed using MRI predicts cognitive function at 12 months of age in very preterm infants. UQCCR 10-year symposium. Brisbane, Australia. Sep 10 2018

13. Rinaldi Pretorius, Kirat Chand, Stephanie Miller, Kate Goasdoue, Paul Colditz, Tracey Bjorkman, Julie Wixey. Microglial activation phenotypes in intrauterine growth restricted newborns. SBMS International Postgraduate Symposium, St Lucia, Brisbane. November 2018

14. Lara Jones, Elliot Teo, Stephanie Miller, Kirat Chand, Julie Wixey, Paul Colditz, Tracey Bjorkman. Investigating the effect of placental stem cells on the blood brain barrier in a model of hypoxic-ischemic encephalopathy. SBMS International Postgraduate Symposium, St Lucia, Brisbane. November 2018

15. Kate Goasdoue, Kirat Chand, Stephanie Miller, Paul Colditz, Tracey Bjorkman. Seizures are associated with blood-brain barrier disruption in an animal model of neonatal hypoxic-ischaemic encephalopathy. RBWH Symposium, Brisbane. September 2018
**Poster Presentations (cont):**

16. Julie Wixey, Kishen Sukumar, Stephanie Miller, K Goasdoue, P Colditz, ST Bjorkman, K Chand. Ibuprofen administration to the growth restricted newborn reduces neuroinflammation and neuronal and white matter injury. RBWH Symposium, Brisbane. September 2018

17. Rinaldi Pretorius, Kirat Chand, Stephanie Miller, Kate Goasdoue, Paul Colditz, Tracey Bjorkman, Julie Wixey. Microglial activation phenotypes in the intrauterine growth restricted neonatal brain. RBWH Symposium, Brisbane. September 2018

18. J Wixey, S Miller, K Goasdoue, P Colditz, ST Bjorkman, K Chand. Microglial and astrocytic response is associated with cell death and decreased cellular proliferation in the intrauterine growth restricted newborn brain. 4th International Society of Neuroimmunology Conference, Brisbane, Australia. August 2018


20. Elliot Teo, Tracey Bjorkman, Kirat Chand, Julie Wixey, Stephanie Miller, Seen-Ling Sim, Jatin Patel, Kirash Khosrotehrani, Paul Colditz. Placental-derived stem-cells as a treatment for newborn hypoxic-ischemic encephalopathy. 14th International Congress of Neuroimmunology, Brisbane, Australia. August 2018

21. Elliot Teo, Tracey Bjorkman, Kirat Chand, Julie Wixey, Stephanie Miller, Seen-Ling Sim, Jatin Patel, Kirash Khosrotehrani, Paul Colditz. Human mesenchymal and endothelial progenitor cells from the placenta to the hypoxic ischemic brain. Translational Research Symposium, Translational Research Institute, Brisbane, Australia. July 2018

22. ST Bjorkman, J Patel, JA Wixey, KK Chand, SM Miller, E Teo, K Khosrotehrani, PB Colditz. Stem cells for the treatment of neonatal hypoxic ischemic encephalopathy. 11th Hershey Conference on Developmental Brain Injury. California, US. June 2018

23. Elliot Teo, Tracey Bjorkman, Kirat Chand, Julie Wixey, Stephanie Miller, Seen-Ling Sim Jatin Patel, Kirash Khosrotehrani, Paul Colditz. Stem-cells as a treatment for newborn hypoxic-ischemic encephalopathy. Queensland Postgraduate Medical Research Student Conference. Brisbane, Australia. May 2018

24. Elliot Teo, Tracey Bjorkman, Kirat Chand, Julie Wixey, Stephanie Miller, Seen-Ling Sim Jatin Patel, Kirash Khosrotehrani, Paul Colditz. From vein to brain: Homing of placental-derived human stem cells in piglet model of hypoxic-ischemic encephalopathy. RBWH Symposium, Brisbane. September 2018


**Other Communications and Outputs:**

1. Hammill J. Symposium. “Fetal Alcohol Spectrum Disorders (FASD), a preventable lifelong brain-based disorder that carries a transgenerational burden physical, mental and cognitive disabilities”. Synapse, Brisbane. 29th October 2018


3. Hammill J. Seminar. “FASD Awareness Day”. Lady Cilento Children’s Hospital, Brisbane. 7th September 2018


5. Hammill J. Seminar. “Fetal Alcohol Spectrum Disorders”, Lady Cilento Children’s Hospital, Brisbane. 2nd May 2018

6. Hammill J. Seminar. “Foetal Programming of Poor Life Outcomes, Lady Cilento Children’s Hospital, Brisbane. 21st February 2018


9. Hammill J. Seminar. “Healthy Options”, Mon Komo Hotel, Redcliffe, 7th February 2018

10. Hammill J. Minister for Resources, Champion Cherbourg Aboriginal Community, Dr Anthony Lynham, Stafford. 27th July 2018


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 ground-breaking 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 2018 we completed training at two Queensland Health Hospitals for the IMAGINE Study. The IMAGINE Study aims to implement and evaluate a model of training for practising gynaecologists in Total Laparoscopic Hysterectomy. We also 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, continued recruitment in 2018.

### 2018 Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

<table>
<thead>
<tr>
<th>Name</th>
<th>Type of Fellowship</th>
<th>Research Program</th>
<th>University (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nigel Armfield</td>
<td>Research Fellow</td>
<td>Gynaecological Oncology</td>
<td>The University of Queensland (current)</td>
</tr>
<tr>
<td>Trudi Cattley</td>
<td>Clinical Research Manager</td>
<td>Gynaecological Oncology</td>
<td>The University of Queensland (current)</td>
</tr>
<tr>
<td>Vanessa Behan</td>
<td>Clinical Trial Manager</td>
<td>Laparoscopic Approach to Cervical Carcinoma</td>
<td>The University of Queensland (current)</td>
</tr>
<tr>
<td>Vanessa Taylor</td>
<td>Clinical Trial Manager</td>
<td>Improving the treatment for women with early stage cancer of the uterus</td>
<td>The University of Queensland (current)</td>
</tr>
<tr>
<td>Kerry Millgate</td>
<td>Clinical Trial Coordinator</td>
<td>Gynaecological Oncology</td>
<td>The University of Queensland (current)</td>
</tr>
<tr>
<td>Anne Hughes</td>
<td>Project Manager</td>
<td>The Implementation of Minimally Invasive Hysterectomy Trial</td>
<td>The University of Queensland (current)</td>
</tr>
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</table>

### 2018 Current RBWH Research Group / Department Led Research Activity

<table>
<thead>
<tr>
<th>RBWH Research Group/Department Lead Researchers</th>
<th>Collaborative Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Andreas Obermair</td>
<td>Monika Janda (QUT)</td>
<td>A stepped wedge cluster trial to implement and evaluate a model of training for practising gynaecologists in Total Laparoscopic Hysterectomy</td>
</tr>
<tr>
<td>Prof Andreas Obermair</td>
<td>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), Meran Williams (Bloomhill Cancer Care), Val Gebski (Uni of Sydney)</td>
<td>Long-term follow-up of the Laparoscopic Approach to Carcinoma of the Endometrium (LACE) Survival outcomes.</td>
</tr>
<tr>
<td>Prof Andreas Obermair</td>
<td>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)</td>
<td>A Phase II Randomised Clinical Trial of Mirena® ± Metformin ± Weight Loss Intervention in Patients with Early Stage Cancer of the Endometrium</td>
</tr>
<tr>
<td>Prof Andreas Obermair, Paul Thomas</td>
<td>Jim Nicklin (Gyn Onc), Russell Land (Gyn Onc), Andrea Garrett (Gyn Onc), Amy Tang (Gyn Onc)</td>
<td>Impact of gated PET/CT on the diagnosis of distant metastases of advanced epithelial ovarian, fallopian tube, and primary peritoneal cancer</td>
</tr>
</tbody>
</table>
2018 Collaborative Research Activity involving RBWH Research Group / Department

<table>
<thead>
<tr>
<th>Collaborative Lead Researchers</th>
<th>RBWH Researchers</th>
<th>Research Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandi Hayes (QUT)</td>
<td>Prof Andreas Obermair (Gyn Onc), Jim Nicklin (Gyn Onc), Russell Land (Gyn Onc), Andrea Garrett (Gyn Onc), Amy Tang (Gyn Onc)</td>
<td>A Phase III randomised controlled trial of exercise during chemotherapy for patients commencing first line treatment for ovarian cancer</td>
</tr>
<tr>
<td>Pedro Ramirez (MD Anderson USA)</td>
<td>Prof Andreas Obermair (Gyn Onc), Jim Nicklin (Gyn Onc), Russell Land (Gyn Onc), Andrea Garrett (Gyn Onc)</td>
<td>A Phase III Randomized Clinical Trial Comparing Laparoscopic or Robotic Radical Hysterectomy versus Abdominal Radical Hysterectomy in Patients with Early Stage Cervical Cancer</td>
</tr>
</tbody>
</table>

2018 Research Grants – Awarded

<table>
<thead>
<tr>
<th>Investigators (RBWH staff in bold)</th>
<th>RBWH Research Groups/Departments</th>
<th>Project Title</th>
<th>Granting Body</th>
<th>Amount in 2018</th>
<th>Total Amount (years)</th>
</tr>
</thead>
</table>

2018 Research Publications

Journal Articles:

Journal Articles: (cont):


2018 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speaker:

1. Obermair A, Ramirez P. Incidence of adverse events comparing abdominal vs. minimally invasive radical hysterectomy in patients with early-stage cervical cancer: LACC trial. 17th Biennial Meeting of the International Gynecologic Cancer Society; September 14-16, 2018; Kyoto, Japan

2. Ramirez P, Obermair A. Unexpected outcome in LACC study – are there any potential alternative explanations for the declining survival and to confirm the association with MIS? 17th Biennial Meeting of the International Gynecologic Cancer Society; September 14-16, 2018; Kyoto, Japan.

Oral Presentations:

1. Obermair A.; Graves N.; Coleman M.; et al. The implementation of a standardized training program for specialist gynaecologists to decrease the rate of open, abdominal hysterectomy. Royal Australian and New Zealand College of Obstetricians and Gynaecologists (RANZOG) 2018 Annual Scientific Meeting; September 2018; Adelaide, Australia


Poster Presentations:
