

2012 RBWH Research Report





<http://creativecommons.org/licenses/by/2.5/au/>
© State of Queensland (Queensland Health) 2013

Produced by

RBWH Marketing and Communications
Lower Ground Floor
Dr James Mayne Building
Royal Brisbane and Women's Hospital
Butterfield St, Herston, Qld 4029

Phone: +61 7 3646 8111

Web: www.health.qld.gov.au/rbwh

Editor

Prof. Lawrie Powell AC

Photography

Herston Multimedia Unit
RBWH Marketing and Communications
The University of Queensland
Queensland University of Technology
Jamie Hanson
istockphoto.com

Design and typesetting

RBWH Marketing and Communications

Contents

Executive Director's report	
Research Director's report	
Research performance	
Queensland University of Technology	
The University of Queensland	
The University of Queensland Centre for Clinical Research	
Queensland Institute of Medical Research	
RBWH Foundation	
Herston Health Sciences Library	
Human Research Ethics Committee	
Allied Health Professions.....	16
Overview and executive and directing staff	17
Department of Nutrition and Dietetics	18
Department of Occupational Therapy	22
Department of Physiotherapy	24
Department of Psychology	27
Rehabilitation Engineering Centre.....	28
Department of Social Work Services	29
Department of Speech Pathology	31
Cancer Care Services	33
Overview and executive and directing staff	34
Clinical Haematology and Bone Marrow Transplant Unit	35
Department of Medical Oncology.....	38
Department of Radiation Oncology	42
Queensland Haemophilia Centre.....	46
Nursing	47
Corporate Services	49
Overview and executive and directing staff	50
Critical Care and Clinical Support Services	52
Overview and executive and directing staff	53
Department of Emergency Medicine	54
Department of Intensive Care Medicine	57
Hyperbaric Medicine Services.....	64
Professor Tess Cramond Multidisciplinary Pain Centre	65
Internal Medicine Services	67
Overview and executive and directing staff	68
Department of Cardiology.....	69
Department of Clinical Immunology and Allergy	73
Department of Clinical Pharmacology.....	74
Department of Endocrinology	75
Department of Gastroenterology and Hepatology.....	77
Genetic Health Queensland	81
Infectious Diseases Unit	83
Department of Internal Medicine and Aged Care.....	88
Department of Neurology.....	93
Department of Nuclear Medicine including Queensland PET Service.....	96
Palliative Care Service	98
Department of Pharmacy	99
Department of Renal Medicine	103
Department of Rheumatology	108
Department of Thoracic Medicine	109
Medical Imaging Reform Service.....	110
Overview and executive and directing staff	111
Medical Services	114
Overview and executive and directing staff	115
Centre for Palliative Care Research and Education	116
Metro North Mental Health Services	120
Overview and executive and directing staff	121
Department and service reports	122
Nursing and Midwifery Services	133
Overview and executive and directing staff	134
Centre for Clinical Nursing.....	135
Surgical and Perioperative Services	139
Overview and executive and directing staff	140
Department of Anaesthetics and Perioperative Medicine	141
Department of Ear Nose and Throat Surgery	143
Department of General Surgery.....	144
Department of Neurosurgery.....	145
Department of Ophthalmology.....	146
Department of Oral and Maxillofacial Surgery	147
Department of Orthopaedic Surgery	149
Department of Plastics and Reconstructive Surgery	151
Professor Stuart Pegg Adult Burns Centre	152
Trauma Service	154
Department of Urology.....	156
Department of Vascular Surgery	159
Women's and Newborn Services	163
Overview and executive and directing staff	164
Betty Byrne Henderson Women's Health Research Centre	165
Grantley Stable Neonatal Unit.....	166
Department of Gynaecology.....	168
Department of Maternity Services	171
Perinatal Research Centre.....	177
Queensland Centre for Gynaecological Cancer.....	185
Centre for the Advancement of Clinical Research	188



Executive Director's report



Prof. Kesh Baboolal
Executive Director
Royal Brisbane and
Women's Hospital

The value of research to human health and patient care is without doubt. Research has created many new, life-saving procedures and treatments that have resulted in the prevention, eradication and effective management of many diseases.

A strong research culture enables continuous service improvement and the delivery of evidence-based care that leads to significant improvements in the quality and safety of our health services. With this in mind, it is my pleasure to highlight the research excellence that continues at Royal Brisbane and Women's Hospital (RBWH) and acknowledge those who have contributed to this success.

Research continues to thrive at RBWH. We are particularly proud of the multidisciplinary research with medical, nursing and allied health clinicians all contributing to a large and varied body of work. 2012 saw a continued growth in our research activity and the creation of new opportunities for research collaboration with our partners across Metro North Hospital and Health Service (MNHHS).

The success of our 21st annual RBWH Healthcare Symposium and the Queensland Trauma Symposium once again showcased the depth of research being undertaken at the hospital and our commitment to create an environment where we can both share our knowledge and learn from others so that we can deliver the best care to our patients.

The strong partnership between RBWH and other Metro North Hospital and Health Service providers, Queensland Institute of Medical Research (QIMR), The University of Queensland (UQ) and Queensland University of Technology (QUT) continues to shape the Herston campus to achieve the shared ambition to be a centre of excellence for research. This partnership continues to drive the development of the Herston Imaging Research Facility (HIRF), which will put Queensland at the forefront of human imaging research.

I would like to thank all RBWH staff who contributed to our research success in 2012 and would particularly like to acknowledge RBWH Director of Research, Professor Lawrie Powell AC, and his team for the leadership role they have played in this achievement.

Thanks also goes to those at the forefront of our strong research partnerships. In particular Professor Frank Gannon, Director, QIMR; Professor Nicholas Fisk, Executive Dean, Faculty of Health Sciences, UQ; Professor Ross Young, Executive Dean, Faculty of Health, QUT; Professor Leonie Callaway, Head of the Royal Brisbane Clinical School; and RBWH Foundation CEO, Peter Treseder AM and his team.

I look forward to another year of research success at RBWH as our best and brightest researchers continue to engage in work that will not only benefit patient care, but will also benefit global endeavours to improve human health.

Professor Kesh Baboolal
Executive Director
Royal Brisbane and Women's Hospital

Research Director's report



Prof. Lawrie Powell AC
Director, Research

2012 continued to see the impressive increase in research activities across the Herston campus with increased peer-review funding, publications and postgraduate and graduate student research as shown clearly in the accompanying graphs (see page 5).

This increase is also seen in the significant collaboration and partnerships between the various institutions on the campus – The University of Queensland (UQ) Faculty of Health Sciences, with the Health Sciences building; The University of Queensland Centre for Clinical Research (UQCCR) and Medical School; Queensland Institute of Medical Research (QIMR); and Queensland University of Technology (QUT). Their individual reports can be found within this report.

RBWH is now the largest teaching hospital for the UQ School of Medicine and for the QUT School of Nursing. The hospital's clinical programs involve the whole spectrum of medicine, nursing and allied health, including obstetrics, women's health and neonatology. This, and the significant outreach programs where staff regularly visit and service regional hospitals, makes RBWH the largest health care centre in the state, involving approximately ten per cent of Queensland Health activities and consuming approximately ten per cent of the total Queensland Health budget.

Despite this, the continued research productivity at RBWH would not be possible without the strong support of the RBWH Private Practice Trust Fund (PPTF) and RBWH Foundation, both of which contributed to the \$2 million allocated in 2012 for peer-reviewed research.

The significant collaborative ventures involving RBWH and its partner institutions in this large medical, educational and research precinct are discussed in the other reports and will not be detailed again here. They include the Herston Imaging Research Facility (HIRF), the Australian Centre for Health Services Innovation (AushSI), the Centre for Palliative Care Research and Education (CPCRE) and the QIMR/RBWH Clinical Research Award Programme.

It is particularly pleasing to see the steady increase in research productivity in nursing and allied health at RBWH, with significant collaboration with QUT and Griffith University, including an NHMRC-funded Centre for Research Excellence (Griffith/RBWH) for nursing. Dr Marilyn Banks, Director, Nutrition and Dietetics, won several accolades from her alma mater, QUT and also the NHMRC, including Professional Research Training Fellow.

The annual RBWH Healthcare Symposium continues to be the major showcase for the hospital's clinical, educational and research activities with more than 1000 attendees and more than 100 staff and students in its planning and execution with statewide, national and international speakers. The 2012 Symposium was the 21st annual one and focused on the major role of RBWH in managing burns and trauma.

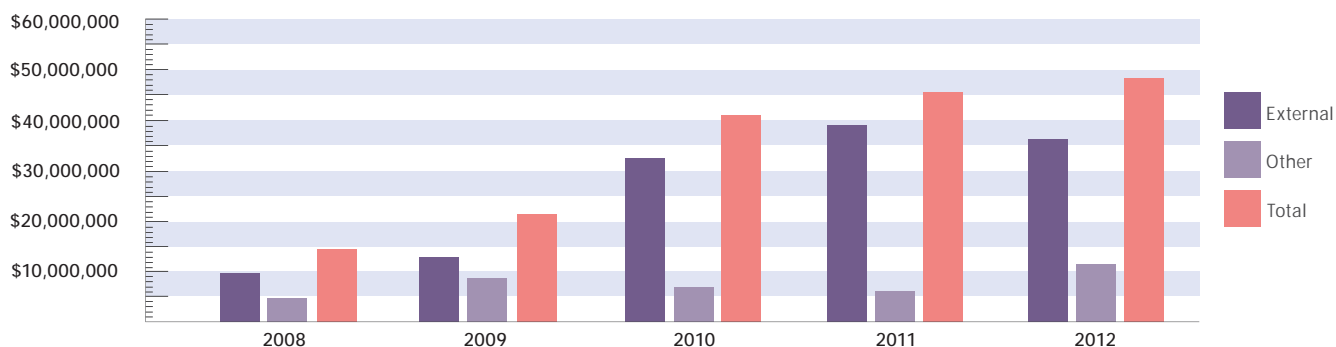
In 2012, a major strategic and scientific external review of research at RBWH was conducted over three days by a multidisciplinary committee chaired by Professor Garry Jennings of the Baker IDI Institute, Melbourne. The review built on the previous one in 2004 by the Ryan Committee and a comparison of them shows the very significant developments of research on campus. This augurs well for the future and demonstrates that research, along with education and comprehensive health care, is now core business for the hospital.

Thus, RBWH continues its trend towards a full academic health centre with excellence in clinical care, teaching and research. It is widely recognised that such centres attract staff with enquiring minds, tenacity and a pursuit of excellence. Such staff themselves attract students and others of like mind. The end result is a higher quality of health care at a sustainable cost.

Professor Lawrie Powell AC
Director, Research
Royal Brisbane and Women's Hospital

Research performance

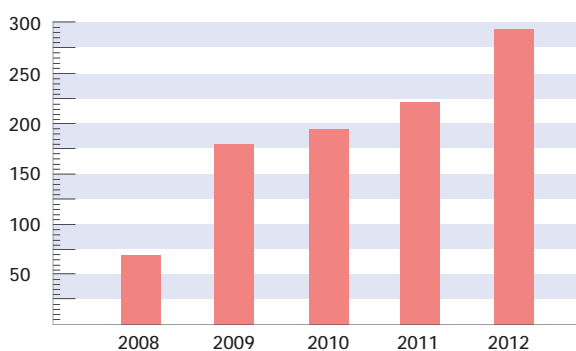
Research grants



Year	External	Other	Total
2008	\$9,906,443	\$4,559,248	\$14,465,691
2009	\$13,181,391	\$8,393,707	\$21,575,098
2010	\$33,560,687	\$7,069,210	\$40,629,897
2011	\$39,237,730	\$6,272,327	\$45,510,057
2012	\$36,704,749.00	\$11,774,729	\$48,479,478

External research funding includes funds received from external peer reviewed funding sources (e.g. National Health and Medical Research Council (NHMRC), National Heart Foundation, Australian Government ARC Grant). Internal research funding includes funds received from internal peer-reviewed funding sources (Queensland Health, RBWH Foundation, RBWH Private Practice Trust Fund, and university funding). Funds received from commercially-sponsored clinical trials contract research are not included. Grants include those where an RBWH researcher is a Chief or Co-Investigator.

Supervised postgraduate students



Year	No. of students
2008	70
2009	180
2010	194
2011	221
2012	291

Higher degrees include masters and doctoral level degrees conferred or currently under supervision by a RBWH researcher.

Publications



Year	No. of publications
2008	413
2009	619
2010	648
2011	632
2012	743

Publications include peer-reviewed journal articles, where an RBWH researcher is a named co-author. Books, book chapters, electronic publications, abstracts, conference proceedings and 'in press' articles are not included.



Prof. Ross Young
Executive Dean
Faculty of Health
Queensland University
of Technology

Throughout 2012, the strong partnership between Queensland University of Technology (QUT) and Royal Brisbane and Women's Hospital (RBWH) continued to expand across various areas of health-related research and training. Much of QUT's involvement is through its Faculties of Health, and Science and Engineering, and the university's state-of-the-art research facility, the Institute of Health and Biomedical Innovation (IHBI).

The well-defined relationship between QUT and RBWH promotes novel research, training and education into patient care and advances in health sciences. New and ongoing adjunct and joint appointments bring together multidisciplinary teams to address developments in health services, nursing, cancer care, nutrition and chronic disease. Education of future researchers and clinicians remains a strong priority for both areas.

Enrolment of clinical professionals in higher degree research programs at QUT is high, with candidates enjoying the benefit of expert supervisory teams across both academic and hospital settings. A strong publication record shows productive links between academic staff, clinicians and students in the key areas of nutrition and malnutrition, cancer, and health services. Outputs in international journals, such as the 'European Journal of Cancer' and 'Appetite', show the world-wide significance of our joint research.

One of the most significant recent developments has been the establishment of the Australian Centre for Health Services Innovation (AushSI), a joint partnership between the Queensland Government, RBWH and QUT. The centre recognises the need for health services research in Australia to address appropriate integration of new technology, contain rising costs and improve the quality of the health system.

A unique focus on linking health services professionals with academics from partner universities will allow dissemination to policy makers and politicians. Themes based broadly around workforce, culture and leadership, patient flow, continuity of care, future health facility design, and practice evaluation and optimisation will drive knowledge translation to improve health services and clinical decision making.





A consultancy project, requisitioned by RBWH and managed by QUT, will deliver and publish a review of existing national and international allied health workforce benchmarks and is to provide a dataset on which to compare the size, proportion and allocation of the workforce in different parts of Australia, and if possible, other countries. The centre has successfully developed an innovative stimulus grant funding scheme in 2012 and completed the first two rounds of funding. There was an enthusiastic response to these rounds, demonstrating the need for research funding within health services. The centre is currently supporting 11 research groups through stimulus grants and four PhD scholars.

Establishment of the Herston Imaging and Research Facility (HIRF), a joint venture between The University of Queensland (UQ), RBWH, QUT and the Queensland Institute of Medical Research (QIMR), was another significant outcome during 2012. This collaboration will support the development, evaluation and validation of novel biomarkers for cancer and other metabolic complications, as well as the ability to profile patients for individualised treatment according to their level of risk. Key researchers from the biomedical sciences and biotechnology field will lead advances in this area.

QUT is a major university partner of RBWH for nursing research and training. A number of long-standing partnerships and collaborations in this area continued to grow and foster throughout 2012. Researchers from the well-established QUT-RBWH Nursing Research and Development Unit in the Centre for Clinical Nursing are furthering their research into a number of key areas around evidence-based practice in nursing. Together with the activities conducted through this centre, the establishment of three QUT-RBWH Nursing Professorial Units in the areas of acute surgery nursing, renal nursing, and intensive care medicine have continued and bring about improvements in outcomes for patients at the hospital.

QUT is a lead partner in the Centre for Palliative Care Research and Education (CPCRE) at RBWH. This Queensland Health initiative is aimed at improving statewide palliative care services.

Our ongoing track record in attracting funding has seen further research into areas affecting policy and practice. Commencing in 2012, QUT and RBWH received project grant funding from the National Health and Medical Research Council (NHMRC) to look at identifying a cost-effective approach to MRSA control in Australia. This important piece of work, funded over three years, will help decision makers choose the optimal mix of interventions that reduce MRSA transmission in Australia. MRSA control guidelines will be updated to provide decision makers with information about which strategies are cost-effective and make the best use of scarce healthcare resources. This, and other externally funded research, is having a strong influence on decision making and future planning in the healthcare sector.

QUT looks forward to another productive year ahead as we build future networks between clinicians, specialists and researchers from hospitals and universities.

Professor Ross Young

Executive Dean, Faculty of Health
Queensland University of Technology





Prof. Bruce Abernethy
Deputy Executive Dean and
Associate Dean (Research)
Faculty of Health Sciences
The University of Queensland

The relationship between The University of Queensland (UQ) and Royal Brisbane and Women's Hospital (RBWH) is a long-standing one that the university values highly.

2012 saw a continued strengthening of that relationship at a number of levels and through a number of important joint ventures and new initiatives.

Schools and dedicated research centres within the Faculty of Health Sciences act as the principal source of contact between UQ and RBWH. The Schools of Medicine, Nursing and Midwifery, and Population Health all have a strong presence on the Herston campus and staff and research students from these schools engage collaboratively in research of direct relevance to the day-to-day activities of RBWH.

Four research centres from within the School of Medicine are based at RBWH – the Burns, Trauma and Critical Care Research Centre (BTCCRC), directed by Professor Jeffrey Lipman; the Queensland Centre for Gynaecological Cancer Research, directed by Professor Andreas Obermair; the Multiple Sclerosis Research Centre, directed by Professor Michael Pender; and the Psychiatry and Clinical Neurosciences Research Centre, directed by Professor Gerard Byrne. Each of these has direct involvement from key hospital units, departments and clinicians.

Also co-located with the hospital is The University of Queensland Centre for Clinical Research (UQCCR), which is a university-level centre dedicated to undertaking clinically-relevant research in the areas of mothers, babies and lifelong health, cancer, brain and mental health, infection and immunity.

The 2012 opening of the Asia Pacific Centre for Neuromodulation within UQCCR, directed by Professor Helen Chenery, has also created a range of exciting new collaborative research opportunities on the impact of deep brain stimulation techniques on a host of neurological and neuro-degenerative conditions.

Throughout 2012 there has been further recognition from both the university and hospital of the critical importance of the nexus between research, teaching and clinical service delivery that the UQ-RBWH partnership provides. High-level planning has continued, under the banner of the Mayne Health Science Alliance, to position both UQ and RBWH as key contributors to a future academic health sciences centre. Integral to such a development is enhancing the active interactions and collaborations that already exist between UQ and RBWH by way of conjoint and academic title holder staff appointments, joint research projects, joint commitments to the recruitment and support of academic clinicians and joint contributions to the development of world-class infrastructure, such as the Herston Imaging and Research Facility (also involving QIMR and QUT).

In the past 12 months two new initiatives have been launched by UQ to further enhance clinical engagement with RBWH and other key hospitals with which the university interacts.

The first initiative was a wide-ranging internal review of the operation of the clinical schools of the university. Stemming from this, two new posts of direct relevance to the RBWH have been established within the Faculty of Health Sciences. Professor Gerald Holtmann has been appointed to the new post of Associate Dean (Clinical) to oversee clinical teaching and research partnerships across all the health sciences disciplines at UQ and Professor Leonie Callaway has been appointed to oversee clinical activities and engagement between the university and all hospitals in a northern cluster, including RBWH.

The second initiative was the establishment of a research seed funding scheme to support the research activities of clinicians appointed as academic title holders of UQ. This co-investment scheme is to both help recognise the contributions that academic title holders make to the teaching and research activities of the university and to make available funds to help foster hospital-based clinical research. The first round of grants will be awarded for work to commence in 2013.

Given the long-standing collaboration and the stimulus provided by these new initiatives and opportunities, the UQ Faculty of Health Sciences looks forward to its 2013 interactions with RBWH with genuine optimism and excitement.

Professor Bruce Abernethy
Deputy Executive Dean and Associate Dean (Research)
Faculty of Health Sciences
The University of Queensland

The University of Queensland Centre for Clinical Research



Prof. Murray Mitchell
Director, The University
of Queensland Centre
for Clinical Research

It is with great pride that I can report again this year on the continued growth of The University of Queensland Centre for Clinical Research (UQCCR) and the many milestones and accomplishments seen across the centre and our major areas of research.

Our researchers took pleasure in more funding success throughout 2012 with overall grant monies awarded to UQCCR totalling over \$19 million – the highest the centre has received since beginning operations four years ago. In a welcome reward for our efforts in this direction for the centre, total funding from external sources (other than NHMRC and ARC) increased by more than 170 per cent to around \$12.3 million, making up the lion's share (64 per cent) of our funding achievements for the year.

The flow of high-quality publications from the centre's researchers also increased substantially with total publications across books, book chapters, journal articles and conference abstracts jumping to 477 in 2012 (a staggering 70 publications more than the year prior). Further to this, many of our researchers had their work published in renowned publications including 'Nature', 'Nature Genetics', the Lancet and PLoS.

Our commitment to providing the highest quality experience and education for our students is best represented by the 21 students who completed their journey with us by graduating in 2012 and the increase in research higher degree (RHD) students enrolling under the supervision of centre staff every year. We now have 148 total students associated with UQCCR researchers, of which 127 are RHD students and 38 of which were new enrolments in 2012.

The new multimillion dollar Asia-Pacific Centre for Neuromodulation (APCN) was launched in 2012, in strengthening our partnership with St Andrews Hospital and the UQ Faculty of Health Science, with UQCCR Professor, Helen Chenery, appointed as Director. Helen is a leading researcher in the area of the neurobiology of language in Parkinson's disease and the impact of Deep Brain Stimulation on cognition.

We continue to make progress in building the Herston Imaging Research Facility (HIRF) – a joint initiative of UQ, Queensland Health, Queensland University of Technology (QUT) and the Queensland Institute of Medical Research (QIMR) with construction beginning mid-2013. The facility will be an annex to UQCCR, utilising our clinical facilities and providing cutting edge imaging methods to improve the diagnosis and treatment of cancer, mental disorders and neurological diseases associated with ageing.

Furthermore, we were pleased to announce this year the establishment of the ACRF Molecular Oncology Translational Imaging Facility that is to be located within HIRF. The procurement of two state-of-the-art scanners with hybrid molecular imaging technology will provide researchers and students with unique, world-class technologies that give them a competitive advantage in their studies, grant applications and ability to diagnose and treat patients.

Our dedication to further developing partnerships with clinical colleagues and hospitals across Brisbane was demonstrated at the 21st annual RBWH Healthcare Symposium, where 35 out of 101 presentation abstracts were provided by UQCCR researchers. Further to this, by continuing to utilise professional linkages within the research hub of the Herston campus, our clinical floor enjoyed significant growth in 2012 with the total number of patients participating in investigator-driven clinical trials at UQCCR increasing by almost 90 per cent (to 1,542 patients) when compared to the year prior.

For the year ahead, we are evaluating our themes and in particular one new theme – public health policy. This innovative and exciting theme would contribute to the UQCCR vision to shape health and funding policy by examining public policy issues in two important health areas: women's health and addiction and mental health. The work of the theme would aim to inform government, the public and other bodies in establishing ethically appropriate and socially effective policies that maximise benefits to health.

The new theme's two main areas of strategic focus would be led by Associate Professor Jayne Lucke for Women's Health and Australian Fellow Professor Wayne Hall for Addiction.

In closing, I would like to take this opportunity to thank all UQCCR staff and students for their tremendous efforts throughout 2012. We are proud to have a dedicated team of academic, professional and research staff who share our vision and work tirelessly to save, transform and improve the lives of people across the community.

Professor Murray Mitchell
Director
The University of Queensland Centre for Clinical Research



UQCCR
The University of Queensland
Centre for Research in
Creative Industries



Prof. Frank Gannon
Director and Chief
Executive Officer
Queensland Institute
of Medical Research

As we share the same campus at Herston it is natural that QIMR and the RBWH would have shared interests and activities. A start point for this is the fact that key members of the QIMR Faculty are active clinicians at the RBWH. Examples include Professor James McCarthy, Coordinator of the Infectious Diseases Programme; Professor Michael Breakspear, Coordinator of the Mental Health/Complex Disorders Programme; and Professor Geoff Hill, Coordinator of the Immunology Department.

2012 was a very significant year in the further growth of the linkages between QIMR and the RBWH. Progress towards the establishment of the ambitious plan to establish a unique multi-modality research imaging building, the Herston Imaging Research Facility (joint operation involving RBWH, UQ, QUT and QIMR), has continued to move forward with equipment and building plans at an advanced stage such that they will be delivered upon in 2013. The fact that the four partners are sharing resources for this development shows the degree to which our collaborative base has been strengthened.

Our mutual engagement in the development of the Integrated Health Science Centre (also known as the Advanced or Academic Health Science Centre) concept has been maintained during the year and plans for this are also at a stage where real action can take place in 2013. Much work has gone on towards developing this concept that will interconnect clinical services, research activities and training of the partners involved. It heralds a very important change in how we interact and should result in the best possible care for patients being made available rapidly.

These are prospects for the near future but the most significant development in 2012 may have been the launch of a joint QIMR/RBWH Clinical Research Award Programme. Both parties contributed to supporting research involving a clinician at RBWH and a researcher at QIMR. At QIMR we are very committed to this concept and hope that it will grow in importance and impact in the years to come. Through it we will identify new opportunities to work together and in the process mould the research activities at QIMR such that they match the needs defined by clinicians.

As shown by these activities it is clear that QIMR is very aware of the benefits of co-location at the Herston campus site with the RBWH. We wish them to grow and become more comprehensive. The above shows that there are many opportunities for this to happen.

Professor Frank Gannon
Director and Chief Executive Officer
Queensland Institute of Medical Research



Peter Treseder AM
Chief Executive Officer
RBWH Foundation

As the charity arm of Royal Brisbane and Women's Hospital, RBWH Foundation plays a vital role in not only raising the money needed to fund clinical research and other activities on the campus, but raising awareness of the exemplary work and achievements of the hospital's researchers and other staff.

Through building our profile, pursuing commercial activities and continuing to actively engage with large and small businesses, community groups and generous individuals, the Foundation has been able to successfully grow its fundraising revenue year on year. In the past five years, total revenue has more than doubled, increasing from \$2.6 million in 2006-2007 to \$6.8 million in 2011-2012.

While this growth obviously enables the Foundation to invest more into clinical research and other initiatives aimed at improving patient outcomes, it also gives us the opportunity to strengthen our financial position in order to ensure a sustainable future.

A total of \$1.33 million was distributed in the year ended 30 June 2012 to a variety of new and ongoing medical research projects being conducted at the hospital.

RBWH Foundation's primary method of distributing this funding is through our annual Research Grant Awards program. These grants are awarded based on merit by the Foundation's Research Advisory Committee and they are designed to enable projects to get off the ground and establish a basis from which the researchers can apply for more substantial grants from larger external bodies. The grants include Research Initiative Grants, Nursing and Allied Health Research Grants and Patricia Dukes Fellowship Grants.

RBWH Foundation also provides funding to a number of research centres based at RBWH for ongoing projects. Some examples of this ongoing research funding include:

- » **Burns, Trauma and Critical Care Research Centre (BTCCRC)** – RBWH Foundation negotiated a three-year sponsorship deal for this centre with Brisbane-based construction company Epoca. This sponsorship enables the centre to continue its research work in areas such as the application of antibiotic therapy in critically ill patients and improving the psychological health of burns patients.
- » **Neurology Research Centre** – RBWH Foundation provides ongoing funding for motor neurone disease (MND) research. The researchers in this area are focussed on developing reliable markers for the disease's progression with the hope that these developments can then be used in international clinical treatment trials.
- » **Perinatal Research Centre** – RBWH Foundation continued to raise funds for the centre's five-year Brain Research Advances In Newborns (BRAIN) Project in 2012. The project seeks to better understand and detect brain injuries in newborns while determining new methodologies for treating these injuries.

Many of the hospital's main research centres/groups have now established tied funds with the Foundation to house money received through special donations, bequests and grants. These tied funds allow researchers easy access to their funding as and when required.

As the requests for research funding continue to increase from across the campus, so does the Foundation's commitment to raising the money needed to support these potentially life-saving projects. Raising these funds, however, would not be possible without the generous contributions of our many supporters and we would like to take this opportunity to thank these supporters most sincerely. Our supporters include donors, sponsors, people who purchase our merchandise, individuals and businesses who provide items for auctions and raffles and everyone who attends our various events.

We would also like to take this opportunity to thank our Chair, The Honourable Warwick Parer AM, and volunteer members of the RBWH Foundation Board. With our Board's continuing leadership and drive, coupled with the dogged determination of our small fundraising team, we are extremely optimistic about further increasing support and our capacity to provide additional financial assistance to the RBWH in 2013.

Peter Treseder AM
Chief Executive Officer
RBWH Foundation



Herston Health Sciences Library



Nicky Foxlee
Manager
Herston Health
Sciences Library

The Herston Health Sciences Library provides resources and services to support the research, clinical, teaching and learning needs of hospital staff located on the Herston site and staff and students of The University of Queensland (UQ).

Librarians in the Research and Information Service (RIS) at the Herston Health Sciences Library provide expert advice to hospital staff from across the hospital's departments and units. They support staff conducting research through all stages of their research cycle and can assist with:

- » Individual research consultations
- » Literature searches
- » Advanced information literacy training and department in-service sessions
- » Developing collections for research and teaching needs
- » Staying up-to-date with the literature in a discipline
- » Endnote (referencing software)
- » Metrics for research grant applications.

During the past year, RIS Librarians conducted approximately 15 individual research consultations each week and undertook more than 113 literature searches for hospital clients requiring evidence-based information to support research, patient care, clinical guideline and care pathway development and audit or policy documentation. The Librarians regularly contribute their expertise to systematic review and clinical guideline groups and provide metrics assistance for grant applications.

RBWH staff have access to world-class research and scholarship through the print resources provided by the UQ Library. The UQ Library (15 branches) has one of the largest academic collections in Australia with more than two million volumes.

The Library provides an exceptional print collection of health and medical books and journals. In 2012, the Herston Collection Development Committee, comprising representatives from the hospitals and the university, purchased 900 new items, 17,197 items were borrowed from the collection and 121,420 items were re-shelved after being returned to, or used in the Library.

Increasingly, researchers seek access to scholarly information in electronic format. The Library provides an extensive and increasing range of electronic journals, books and other digital material. Clinicians with a UQ academic title have full access to UQ Library electronic resources, while other hospital staff members have walk-in access to a wide range of electronic books, journals and databases. Hospital staff also have access to Queensland Health's Clinician's Knowledge Network (CKN), a gateway to electronic books, journals, full-text databases and other resources.

Ensuring hospital staff can find and use the Library's research collections and tools is a priority for the Herston Health Sciences Library. RIS Librarians conduct regular advanced information literacy training to support the research needs of hospital staff. Training includes searching the specialised databases on CKN and on the UQ Library system, managing references using Endnote, keeping up-to-date in the literature of a discipline, and Microsoft Word and Excel.

The document delivery service enables the Library to meet the research and information needs of all of its clients. If an item, whether it is print or electronic, is unavailable from the collections of the UQ Library or CKN, it is obtained from another library. In 2012, the Herston Health Sciences Library received 3,873 document delivery requests from library clients.

During the past year, 1,181 library clients attended 97 information literacy classes held in the Library eZone or in a hospital department. In addition, Library staff delivered 43 tours and talks to 1,604 clients.

A customised website for hospital staff, Herston, Mater and PAH staff <http://www.library.uq.edu.au/hsl/hospital/> provides links to resources and services provided by the Library. A quarterly newsletter is also available to share information. Herston Health Sciences Library staff members are available to assist hospital staff make the most of the resources and services available.

RBWH, along with the Royal Children's Hospital (RCH) and UQ Library jointly fund the Herston Health Sciences Library. The UQ Library manages the Herston Health Sciences Library. In 2012, 81,407 people visited the Herston Health Sciences Library and 3,317 clients used the after-hours eZone.

Nicky Foxlee
Manager, Herston Health Sciences Library



Human Research Ethics Committee



Conor Brophy

Chair, Human Research Ethics Committee, Royal Brisbane and Women's Hospital

The last year was a period of consolidation for Human Research Ethics Committees (HRECs) in Australia as the changes brought about by the NHMRC National Approach to single ethical review of multi-centre research took effect.

Increasingly, multi-centre research conducted across Victoria, New South Wales and Queensland is reviewed by one of several certified ethics committee so that duplication of ethical review, particularly of clinical trials, is minimised. Consideration of site specific factors, such as contracts and capacity, remain the province of institutional research governance departments.

RBWH HREC continues to provide ethical review for the organisations situated throughout the Herston campus, and has a further role in reviewing studies which are to be conducted elsewhere, including studies in which no campus-sited organisation is involved. The number of such studies is likely to increase in coming years because of the impact of the national approach.

HREC membership remains largely unchanged with 26 people fulfilling the various critical membership categories defined in the NHMRC National Statement on Ethical Conduct in Human Research. These categories are lay members; those with knowledge and current experience in professional care; those with research experience relevant to the research reviewed; lawyers; and pastoral carers. We have been fortunate to have welcomed in 2012 a second person who has a pastoral care role in the community.

The committee reviewed a total of 206 new studies in 2012. This was an increase of 25 per cent on the previous year. Of these, there were 109 studies which were to be conducted at more than one site, and for which the HREC provided single ethical review. The majority, 80 studies, concerned multiple sites in Queensland and the other 29 included sites in other states. Eight studies did not involve RBWH or a campus partner. The median time to final decision for new studies reviewed by the full Committee remains at 25 days, well within the proposed standard of 60 days.

A number of studies, 34, were considered to be exempt from full HREC review, either because they constituted negligible risk and involved only review of existing collections of non-identifiable data, or they were audit activities evaluating standards of care. All these studies were reviewed within a median period of four days.

As well as reviewing studies within and between the HREC meeting, committee members increasingly meet with researchers to discuss issues raised during review. Generally in these cases, a number of ethical issues have been raised which, it is felt, require further exploration with researchers. This has proven to be an effective way of ensuring that concerns are aired but also that mutual understanding is achieved and, thereby, that the committee contributes to the maintenance and improvement of research proposals generally.

The quality of research proposals on campus is evidenced by the excellent, and growing, record of achievement showcased in this report.

Conor Brophy

Chair, Human Research Ethics Committee
Royal Brisbane and Women's Hospital



Allied Health Professions



Judith Catherwood
Executive Director
Allied Health Professions

Overview

The Allied Health Professions service line was established in 2011. The service line comprises nine disciplines providing assessment, diagnostic, therapy, rehabilitation and support services across all areas of the hospital campus, including inpatient and ambulatory services, emergency and elective care. The contribution of research by each discipline is varied and reflects the diversity of the service provision and the capacity for research within each staff group.

Research is the foundation of professional practice and drives a culture of enquiry, the dissemination of knowledge and transformation of patient care within allied health services. It is core business of RBWH and core business for the allied health professions and is what separates practitioners who "deliver patient care" from practitioners who "inform, drive, change and improve patient care."

In 2010, Queensland Health funded a number of Allied Health Research Fellows. The position within RBWH had been vacated and during 2012 a partnership between allied health at RBWH and Queensland University of Technology (QUT) has emerged using these resources. Professor Michele Clark will commence the role of Professor of Allied Health Professions Research on 8 April, a position based at RBWH but jointly developed between ourselves and QUT. The position will build research capacity in the field of health services research within the health practitioner group across RBWH. It will work in partnership with other researchers and research active staff across Metro North in shaping the future practice within allied health practice through innovation, using health services research methods. The post will work with all health practitioner groups including pharmacy, imaging staff and scientists.

This year, Allied Health Professions has grown their research outputs. There were in excess of 30 research publications driven by researchers within RBWH allied health: a 37 per cent increase on the previous year. The health practitioners submitted more than 20 applications for the Health Practitioner Research Grant Scheme in 2012, a record number of applications and over 50 per cent of the applications submitted from Metro North as a whole. Health Practitioners submitted 20 applications to the RBWH Research Grant scheme and more than 50 per cent were successful in receiving grant funding. This is the highest submission and success rate to date.

As Executive Director, Allied Health Professions, I look forward to working with our university partners to develop research partnerships, joint clinical and academic positions and increase the number of research active clinicians working in RBWH. Without an evidence base to support the patient and service outcomes of practice, allied health services will not flourish into the force they are required to be, to ensure the health system can face the challenges of tomorrow.

Key departments

- » Department of Audiology
- » Department of Nutrition and Dietetics
- » Department of Occupational Therapy
- » Department of Orthotics and Prosthetics
- » Department of Physiotherapy
- » Department of Psychology
- » Rehabilitation Engineering Centre
- » Department of Social Work Services
- » Department of Speech Pathology

Executive and directing staff

Judith Catherwood
Executive Director

Deborah McKenzie
Director, Audiology

Dr Marilyn Banks
Director, Nutrition and Dietetics

Susan Laracy
Director, Occupational Therapy

Dr Mark Holian
Director, Orthotics and Prosthetics

Peter Buttrum
Director, Physiotherapy

Anne Clair
Director, Psychology

Peter Slattery
Director, Rehabilitation Engineering

Jan Hinson
Director, Social Work Services

Lynell Bassett
Director, Speech Pathology

Michele Clark
Professor, Allied Health

Department of Nutrition and Dietetics



Dr Merrilyn Banks
Director, Nutrition
and Dietetics

Overview

The Department of Nutrition and Dietetics provides a comprehensive clinical service to inpatients and outpatients of the RBWH. Services to inpatients include nutritional assessment, intervention and support, discharge planning for outpatient follow-up and community services. Outpatient counselling services are provided to groups and individuals in clinics within the department and as part of multidisciplinary teams. A home enteral nutrition service is also provided. There is commitment to provide ongoing education to hospital staff, education and support for student dietitians, and support and advice to dietitians and other health professionals in regional areas.

Dietetic Assistants in Nutrition Support Services undertake nutrition screening, assist patients with menu choices, organise specialised nutrition products, and monitor nutritional intakes. They also update information on patients' diet orders to ensure the correct menu selections for patients while they are in hospital.

The department has a commitment to research. Major interests are divided into three areas: nutrition support (ICU and burns, malnutrition, pressure ulcers, cancer, bone marrow transplant, tube feeding and food service); chronic disease management (diabetes, gestational diabetes and maternity, obesity management, gastroenterology, renal disease and mental health); and education (student placement and collaborative learning). Research is not confined to these areas and depends on the interests of staff and collaborative groups.

The department has developed strong local research collaborations with Internal Medicine Services, the Burns Trauma and Critical Care Research Centre, Cancer Care Services, Department of Gastroenterology and Hepatology and Nursing and Midwifery Services.

Statewide and national networks include Murdoch Children's Research Institute; the Parenting Research Centre; National Burns Dietetics Group; Australasian Society of Parental and Enteral Nutrition (AuSPEN); Australian and New Zealand Intensive Care Research Centre (ANZIC-RC); as well as Nursing Research Centre of Excellence collaborations with other hospitals, such as The Princess Alexandra, The Prince Charles, The Royal Childrens and The Wesley.

Academic partners are Queensland University of Technology (QUT); the Institute of Health and Biomedical Innovation (IHBI) at QUT; The University of Queensland (UQ); Griffith University; The University of Queensland Centre for Clinical Research (UQCCR) and Queensland Institute of Medical Research (QIMR).

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Merrilyn Banks	PhD, BScGradDipEd, GradDipNutrDiet, MHIthSci	Director, Nutrition and Dietetics	malnutrition, pressure ulcers, elderly, critical care, food services
Teresa Brown	BScNutr (Hons), GradDipNutrDiet	Team Leader, Dietitian/Nutritionist	cancer care, gastrostomy
Christine Chapman-Kiddell	BScNutr (Hons), GradDipNutrDiet MPhil candidate	Senior Dietitian/Nutritionist	gastroenterology, irritable bowel disease, Crohn's disease
Sarah Andersen	BHIthSci, NutrDiet	Senior Dietitian/Nutritionist	cancer care, nutrition support, malnutrition
Denise Cruickshank	BSc, GradDipNutrDiet, GradDipTeach(Sec), GradCertHIthMg, MHIthSc	Dietitian Consultant, Queensland Health Foodservices Support and Coordination	food services
Susan de Jersey	BHIthSciNutrDiet (Hons), BAppSci HMS (Hons), MPH, PhD candidate	Senior Dietitian/Nutritionist	maternal health, maternal obesity, infant feeding, gestational diabetes
Kathleen Dwyer	BHIthSciNutrDiet	Dietitian/Nutritionist	cancer care, pressure ulcers
Jennifer Ellick	BHIthSciNutrDiet	Senior Dietitian/Nutritionist	food service, dietetic workforce efficiency, IBS and functional gut disorders, eating disorders
Jan Hill	BSc, GradDipNutDiet, MPH	Team Leader, Dietitian/Nutritionist	malnutrition, pressure injury, elderly
Lisa Jolliffe	BHIthSciNutrDiet	Dietitian/Nutritionist	cancer care, malnutrition, renal
Philip Juffs	BAppSci, GradDipNutrDiet, GradCertHIthMg	Team Leader, Dietitian/Nutritionist	renal services

Research staff

Name	Qualifications	Position	Interests/specialties
Amanda Lowe	BHlthSciNutrDiet (Hons)	Dietitian/Nutritionist	cancer care, nutrition support
Belinda Mason	BAppSci, HMS, BHlthSci, NutrDiet	Senior Dietitian/Nutritionist	cancer care, renal and gestational diabetes
Maria O'Connell	MAA	Dietitian/Nutritionist	gestational diabetes, mental health
Lauren Rogers	BHlthSciNutrDiet (Hons), GradDip Diabetes	Senior Dietitian/Nutritionist	malnutrition, elderly, diabetes
Dr Lynda Ross	PhD (BiomedSci), BNutrDiet (Hons)	Research Coordinator	chronic disease, rare diseases
Amy Scott	BHlthSciNutrDiet	Dietitian/Nutritionist	malnutrition, nutrition support
Siobhan Wallin	BHlthSciNutrDiet	Senior Dietitian/Nutritionist	critical care, upper gastrointestinal surgery
Adrienne Young	BHlthSciNutrDiet (Hons), PhD candidate	Dietitian/Nutritionist	malnutrition, elderly

Supervised post-graduate students

Name	Current studies	Research topic
Agarwal, E.	PhD	The Australasian Nutrition Care Day Survey: an investigation into the relationship between nutritional factors and clinical outcomes at three months in acute care patients
Al Balushi, R.	PhD	Effect of intravenous GLutamine supplementation IN Trauma patients receiving enteral nutrition (GLINT Study): a prospective, blinded, randomised, placebo-controlled clinical trial
Brown, T.	PhD	Does early commencement of nutrition support in patients with head and neck cancer improve outcomes?
Chapman-Kiddell, C.	MPhil	Role of diet in the development of inflammatory bowel disease
de Jersey, S.	PhD	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy: New Beginnings Healthy Mothers and Babies Study
Young, A.	PhD	Encouraging assisting and time to eat: Comparison of mealtime assistance interventions in elderly medical inpatients
Roberts, S.	PhD	Nutrition in prevention of pressure ulcers in hospitalised patients

Awards and achievements

Award	Event	Name
Advanced Accredited Practising Dietitian	Dietitian's Association of Australia	Brown, T.
Honorable mention for poster titled 'Identification of high-risk patients and compliance to evidence-based guidelines for the swallowing and nutrition management of patients with head and neck cancer facilitates early dietetic intervention and improves patient outcomes'	Management of long-term issues poster session, 8th International Conference on Head and Neck Cancer, Toronto, Canada	Brown, T.
Honorable Mention for poster titled 'Evidence-based guidelines for the nutritional management of patients with head and neck cancer: Developing and maintaining guidelines on a wiki-platform'	Management of long-term issues poster session, 8th International Conference on Head and Neck Cancer, Toronto, Canada	Brown, T.
New Researcher award for abstract presentation 'Protected mealtimes in the Australian context: Encouraging, Assisting and Time to EAT'	16th International Congress of Dietetics (ICD), Sydney Convention Centre, Australia	Young, A.

Awards and achievements

Award	Event	Name
Powell Young Investigator award for abstract presentation titled 'Identification of high-risk patients and compliance to evidence-based guidelines for the swallowing and nutrition management of patients with head and neck cancer facilitates early dietetic intervention and improves patient outcomes'	2012 RBWH Healthcare Symposium	Brown, T.
RBWH Scholarship to conduct research titled 'Does early commencement of nutrition support in patients with head and neck cancer improve outcomes?'	Annual RBWH Foundation Awards Presentation	Brown, T.
DB Duncan Training Fellowship for International Study/Travel for attendance at 8th International Conference on Head and Neck Cancer, Toronto, Canada	Cancer Council Queensland	Brown, T.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Banks, M., Webster, J., Coleman, K., Campbell, J.	Healing pressure ulcers: Efficacy and cost effectiveness of nutrition in healing of pressure ulcers and chronic wounds	RBWH Foundation	\$30,000	2012
Young, A., Mudge, A., Banks, M., Ross, L., Isenring.	Managing malnutrition: An interdisciplinary discharge planning and post hospital nutrition care model to improve clinical outcomes in older medical patients	RBWH Foundation	\$30,000	2012
Morey (Mason), B., Campbell, K., Ross, L., Kark, A., Juffs, P., Gill, E., Healy, H., Ash, S.	Blood pressure management in chronic kidney disease: development of a self-management model to improve patient outcomes	RBWH Foundation	\$25,000	2012
Cohen (Andersen), S., Banks, M., Kennedy, G.	A randomised comparison of parenteral nutrition and enteral feeding as nutritional support during allogeneic haematopoietic progenitor cell transplantation	RBWH Foundation	\$24,000	2012
Ross, L., Capra, S., Lavin, M., Sinclair, K., Lewindon, P., Munro K.	Therapeutic approaches to nutrition in ataxia-telangiectasia (A-T): A randomised controlled age matched cross-over trial design	RBWH Foundation	\$30,000	2012
Morey, B., Campbell, K., Ross, L., Kark, A., Juffs, P., Gill, E., Healy, H., Fassett, R., Ash, S.	Multiphase development of self management model to improve blood pressure management in chronic kidney disease: preliminary data collection and resource development	ANZSM-AMGEN Quality Assurance Grants Programme	\$10,000	2012
Barrett, H., Callaway, L., de Jersey, Lingwood, B., Dekker Nitert, M., D'Emden, M.	Impact of metformin treatment for gestational diabetes on lipid metabolism and infant body composition: A prospective observational study	RBWH Foundation	(\$8,658 -nutrition component)	2012
Banks, M., Mudge, A., Ross, L., Young, A.	Managing malnutrition: Identifying and addressing barriers and enablers for an interdisciplinary post hospital nutrition care model to improve clinical outcomes in older medical patients	Queensland Health Model of Care Project	\$138,000 (\$69,000 per annum for two years)	2011-2013
Brown, T.	Does early commencement of nutrition support in patients with head and neck cancer improve outcomes?	RBWH	\$35,000	

Publications

Agarwal E, Ferguson M, Banks M, Bauer J, Capra S, Isenring E. Nutritional status and dietary intake of acute care patients: Results from the Nutrition Care Day Survey 2010. *Clinical Nutrition*. 2012;31(1):41-47.

Agarwal E, Ferguson M, Banks M, Batterham M, Bauer J, Capra S, Isenring E. Malnutrition and decreased food intake are associated with prolonged length of hospital stay, frequent hospital readmissions and greater in-hospital mortality: Results from the Australasian Nutrition Care Day Survey 2010. *Clinical Nutrition*. 2012;Dec 5.doi:10.1016/j.clnu.2012. 11.021. [Epub ahead of print]

Agarwal E, Ferguson M, Banks M, Batterham M, Bauer J, Capra S, Isenring E. Nutrition Care Practices in hospital wards: Results from the Nutrition Care Day Survey 2010. *Clinical Nutrition*. 2012;31(6):995-1001.

Publications

Brown T, Spurgin A, Ross L, Tripcony L, Keller J, Hughes B, Hodge R, Dickie G, Walker Q, Banks M, Crombie J. Validated swallowing and nutrition guidelines for patients with head and neck cancer: Identification of high risk patients for proactive gastrostomy. *Head and Neck*. 2012;Sep 13.doi:10.1002/hed.23146. [Epub ahead of print].

de Jersey SJ, Nicholson JM, Callaway LK, Daniels LA. A prospective study of pregnancy weight gain in Australian women. *Aust N Z J Obstet Gynaecol*. 2012;52(6):545-51.

Hughes B, Jain V, Brown T, Spurgin A, Hartnett G, Keller J, Tripcony L, Appleyard M, Hodge R. Decreased hospital stay and significant cost savings after routine use of prophylactic gastrostomy for high risk patients with head and neck cancer receiving chemoradiotherapy at a tertiary institution. *Head and Neck*. 2012;35(3):436-42.

Isenring E, Bauer J, Banks M, Miller M. Managing malnutrition: How to treat and identify unintentional weight loss in adults. *Medicine Today*. 2012;13(3):67-71.

Isenring E, Banks M, Ferguson M, Bauer J. Beyond malnutrition screening: appropriate methods to guide nutritional care for long term care residents. *Journal of the Academy of Nutrition and Dietetics*. 2012;112(3):376-381.

Memon MA, Khan S, Osland E. Meta-analyses of light weight versus conventional (heavy weight) mesh in inguinal hernia surgery. *Hernia*. 2012;16:497-502.

Mudge AM, Young AM, Ross LJ, Isenring EA, Scott RA, Scott AN, Daniels L, Banks MD. Hospital to Home Outreach for malnourished elders (HHOME): A feasibility pilot. *Journal of Aging Research and Clinical Practice*. 2012;1(2):131-134.t

Ross L, Wilson M, Banks M, Rezannah F, Daglish M. Prevalence of malnutrition and risk among patients undergoing alcohol and drug treatment. *Nutrition*. 2012;28(7-8):738-43.

Young A, Mudge AM, Banks MD, Ross L, Daniels L. Encouraging, assisting and time to EAT: Improved nutritional intake for older medical patients receiving protected mealtimes and/or additional nursing feeding assistance. *Clinical Nutrition*. 2012;Nov 17.doi:10.1016/j.clnu.2012.11.009. [Epub ahead of print].

Department of Occupational Therapy



Susan Laracy
Director, Occupational
Therapy

Overview

Occupational Therapy Services provide both secondary, tertiary and quaternary services specialising in burns, hands, lymphoedema, pain and stroke.

The Crammond Fellowships is a three-year research fellow pursuant to completion of Masters by Research. Research topics are reflective of the advanced clinical positions and the Crammond Fellow.

Further exploration of Honours topics is a goal for 2013-2014 to enhance the breadth of areas of the profession's scope of practice under investigation.

Research staff

Name	Qualifications	Position	Interests/specialties
Karl Bagraith	BOccThy (Hons I), PhD candidate	Senior Occupational Therapist	outcome measurement, chronic pain, chronic musculoskeletal conditions, international classification of functioning, disability and health
Nicole Andrews	BOccThy (Hons I)	Senior Occupational Therapist	chronic pain, activity patterns, disability and daily functioning
Tennille Rowland	BOccThy, GradCert (Stroke), MPhil	HP5 Clinical Occupational Therapist	stroke, neurology

Supervised post-graduate students

Name	Current studies	Research topic
Hayes, J.	Occupational Therapy (Hons)	Patient goals and the International Classification of Functioning, Disability and Health (ICF): Evaluating the content validity and the clinical utility of the low back pain core sets
Hutchinson, L.	Occupational Therapy (Hons)	Rasch analysis of the pain self-efficacy questionnaire
D'Arrigo, R.G.	Occupational Therapy (Hons)	Predictors of sleep quality in adults with chronic pain: A momentary, within-persons perspective

Awards and achievements

Award	Event	Name
National PhD student Travel Award, Australian Pain Society		Bagraith, K.S.
International PhD student Travel Award, International Association for the Study of Pain		Bagraith, K.S.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Bagraith, K.S., Fleming, J., Morrell, S., Cella, D., Cook, K., Ostini, R., Strong, J.,	The promising prospect of the NIH's PROMIS (Patient Reported Outcome Measurement Information System): Clinical validation of new generation depression and anxiety measures for pain practice and research	RBWH Foundation	\$30,000	2012-2013
Bagraith, K.S., Strong, J., McPhail, S.M., Sussex, R.	Allied Health PhD Write-up Scholarship	Allied Health Professions of Queensland	\$30,975	2012-2013

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Andrews, N., Strong J., Meredith, P.	Approach to activity and determinants of daily function in patients with chronic pain: A momentary within-persons perspective	Occupational Therapist Board of Queensland Novice Researcher Grant	\$16,010.28	2011-2013
Andrews, N.	Approach to activity and determinants of daily function in patients with chronic pain: A momentary within-persons perspective	RBWH Foundation Scholarship (awarded in 2012)	\$65,000	2013

Publications

Andrews N, Strong J, Meredith P. Activity pacing, avoidance, endurance and associations with patient functioning in chronic pain: A systematic review and meta-analysis. *Archives of Physical Medicine and Rehabilitation*. 2012;93:2109-2121.e7

Bagraith KS, Hayes J, Strong J. Patient goals and the International Classification of Functioning, Disability and Health: Examining the content validity and clinical utility of the low back pain core sets. *Anaesthesia and Intensive Care*. 2012;40(3):531-2.

Bagraith KS, Strong J, Sussex R. Disentangling disability in the fear avoidance model: More than pain interference alone. *Clinical Journal of Pain*. 2012;28(3):273-4.

Bagraith KS, Strong J. Using the ICF to examine the content coverage and clinical utility of the PROMIS pain interference scale. *Quality of life research*. 2012;Suppl:20:47-8.

McPhail SM, Bagraith KS, Schippers M, Wells PJ, Hatton A. Use of condition-specific patient-reported outcome measures in clinical trials among patients with wrist osteoarthritis: A systematic review. *Adv Orthop*. 2012;2012:273421.

Rose S, Rowland T, Pannek K, Baumann F, Coulthard A, McCombe P, Henderson R. Structural hemispheric asymmetries in the human precentral gyrus hand representation. *Neuroscience*. 2012;210:211-21.

Department of Physiotherapy



Peter Buttrum
Director, Physiotherapy

Overview

The Department of Physiotherapy provides clinical services to both inpatients and outpatients of RBWH who have, or potentially have, an underlying movement dysfunction resulting from injury, disease or life changes.

Physiotherapy treatment is directed towards maintaining and restoring normal function, minimising dysfunction and preventing disability by providing non-pharmacological pain relief, enhancing movement patterns by restoring joint range and muscle function, maximising cardiorespiratory function and achieving functional independence.

Tertiary services are provided for patients with amputations, burns, lymphoedema, persistent pain, oncological and musculoskeletal conditions, respiratory conditions, hand injuries, pelvic floor dysfunction, prematurity and pregnancy.

The department has a significant commitment to research across a number of clinical fields. Research is undertaken by both designated researchers, as well as clinical staff members with specific interest in their fields of professional practice and expertise. Key areas of research activity in 2012 were musculo-skeletal conditions, acute care physiotherapy, pain management, burns, neurology, neonates, and clinical education.

The joint research position with Griffith University's School of Physiotherapy and Exercise Science was filled in 2012 by Professor Alice Jones and Dr Sean O'Leary continues as the Principal Research Fellow in the joint research position with the University of Queensland. The department also has research collaborations with the Centre of Clinical Research Excellence in Spinal Pain, Injury and Health (CCRE SPINE) at The University of Queensland.

Research staff

Name	Qualifications	Position	Interests/specialties
Peter Buttrum	BPhty	Director, Physiotherapy	clinical education, orthopaedics
Julie Adsett	BPhty (Hons)	Advanced Clinical Physiotherapist	heart failure, chronic disease management
Praline Choolun	BSc (Phty), Grad Dip (Geriatrics)	Physiotherapist Team Leader (GARU)	neurological physiotherapy
Dr Jayne Grayson	PhD, BSc (Kinesiology), MA (Ex. Physiology), MPhtySt	Research Fellow (RBWH and Griffith University)	musculoskeletal pain and injury, sports injuries
Brooke Hoskin	BPhty (Hons)	Senior Physiotherapist	burns
Prof. Alice Jones	PhD, Certificate Physiotherapy, MPhil, DipEd, Msc, FACP	Principal Research Fellow	acute care physiotherapy, pain management
Dr Shaun O'Leary	BPhty (Hons), MPhty (Manip), PhD, FACP	Principal Research Fellow	musculoskeletal conditions
Anita Plaza	BPhty (Hons)	Team Leader, Advanced Clinician (Burns)	burns
Madonna Puglisi	BPhty (Hons)	Senior Physiotherapist	burns
Hildegard Reul-Hirche	DipPhty	Senior Consultant Physiotherapist (Lymphodema)	breast cancer rehabilitation
Dr Peter Thomas	BPhty (Hons), PhD, FACP	Consultant Physiotherapist	critical care, cardio-respiratory
Glen Volker	BPhty	Acting Team Leader (Outpatients)	musculoskeletal conditions
Peter Window	BPhty (Hons)	Physiotherapist	musculoskeletal conditions
Emma Paterson	BPhty	Physiotherapist	musculoskeletal conditions, haemophilia

Supervised post-graduate students

Name	Current studies	Research topic
Adsett, J.	PhD	Safety and efficacy of aquatic exercise for patients with stable heart failure

Awards and achievements

Award	Event	Name
ALA Award for contribution to Lymphology Research	9th Australasian Lymphology Association Conference	Reul-Hirche, H.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Parker, I.	Allied Health-led Vestibular Screening Clinic and Rehabilitation Service	RBWH AHP MOC funding	\$30,500	2012-2013
O'Leary, S.	Developing clinical motion analysis (research equipment funding)	RBWH Private Practice Trust Fund	\$39,957	2012-2013
O'Leary, S., Volker, G., McPhail, S., Kuipers, V., Dalton, M.	Do clinicians have the necessary skills to facilitate optimal utilisation of health services by patients with chronic musculoskeletal disorders?	Queensland Health HP Research Grant Scheme	\$40,000	2012-2013
O'Leary, S., Window, P.	Equipment funding	RBWH AHP	\$3,846	2012
Comans, T., Raymer, M., Smith, D., O'Leary, S.	Economic evaluation of the OPSC and MDS	AushHI Stimulus Grant	\$86,295	2013-2014
O'Leary, S., Raymer, M., Comans, T., McPhail, S., Khan, A.	Predicting outcome to the conservative care of common orthopaedic conditions	RBWH Foundation Grant	\$39,000	2013-2014
Patman, S., Skinner, E., Reeve, J., Thomas, P.	Minimum standards of practice for physiotherapists working in critical care: wA Delphi study	Physiotherapists' Registration Board of WA Research Grant	\$25,000	2012-2013
Adsett, J., Mudge, A.	Safety and efficacy of aquatic exercise for patients with stable heart failure	Heart Foundation Post Graduate Scholarship	\$71,439.50	2012-2017
Adsett, J., Mudge, A.	Aquatic versus land based exercise for patients with chronic heart failure	RBWH Post Graduate Scholarship	\$30,000	2012
Adsett, J., Mudge, A.	Maintenance of exercise performance following a disease-specific hospital rehabilitation programme for patients with chronic cardiovascular and pulmonary disease: The effect of a community-based structured exercise programme	RBWH Research Grant	\$14,000	2012

Publications

Bourke MG, Jull GA, Buttrum PJ, FitzPatrick PL, Dalton PA, Russell TG. Comparing outcomes of medial parapatellar and subvastus approaches in total knee arthroplasty. A randomised controlled trial. The Journal of Arthroplasty. 2012.

Bourke MG, Jull GA, Buttrum PJ, FitzPatrick PL, Dalton PA, Russell TG. A comparison of patellar vascularity between the medial parapatellar and subvastus approaches in total knee arthroplasty. The Journal of Arthroplasty. 2012.

Chan CK, Wong NN, Wong WH, Yeung CW, Jones AYM. Effect of Acu-TENS on post-exercise airway resistance in healthy subjects. Hong Kong Physiotherapy Journal. 2012;30:29-35.

Chipchase LS, Buttrum PJ, Dunwoodie R, Hill AE, Mandrusiak A, Moran M. Characteristics of student preparedness for clinical learning: clinical educator perspectives using the Dehli approach. BMC Medical Education. 2012;12:112.

Falla D, O'Leary S, Farina D, Jull G. The change in deep cervical flexor activity following training is associated with the degree of pain reduction in patients with chronic neck pain. The Clinical Journal of Pain. 2012;28(7):628-34.

Holland AE, Hill CJ, Jones AY, McDonald CF. Breathing exercises for chronic obstructive pulmonary disease 2010, Issue 1. Art. No: CD008250. DOI: 10.1002/14651858. CD008250.

Leung WW, Jones AYM, Ng, SSM, Wong CYN, Lee JFY. Acu-TENS reduces discomfort associated with Barostat-induced rectal distension: A randomised-controlled study. World Journal of Gastroenterology. 2012;19(3):381-388.

McPhail S, Nagelstad Dalland L, Naess K, Lund M, Johan Ytre-Hauge T, Reiersen Holm S, O'Leary S. Intra-therapist reliability in the rating of scapula posture in multiple planes of reference. ISRN Rehabilitation. 2012.

Publications

Ngai SPC, Jones AYM. Effect of Acu-TENS over BL13 on skin impedance of acupoints along the lung meridian. *Journal of Alternative and Complementary Medicine*. 2012. Doi:10.1089/acm.2012.0097.

O'Leary S, Jull G, Kim M, Uthairakul S, Vicenzino B. Training mode dependent changes in motor performance in neck pain. *Archives of Physical Medicine and Rehabilitation*. 2012;93:1225-1233.

Pang MYC, Cheng AQ, Warburton D, Jones AYM. Relative impact of neuromuscular and cardiovascular factors on bone strength index of the hemiparetic distal radius epiphysis among individuals with chronic stroke. *Osteoporosis International*. 2012;23:2369-2379.

Paratz JD, Stockton K, Plaza A, Muller M, Boots RJ. Intensive exercise after thermal injury improves physical, functional and psychological outcomes. *Journal of Trauma and Acute Care Surgery*. 2012;73(1):186-96.

Patterson E. Physiotherapy at the WFH World Congress. *National Haemophilia Journal of Australia*. 2012;Dec;180).

Sheard B, Elliott J, Cagnie B, O'Leary S. Evaluating serratus anterior muscle function in neck pain using muscle functional magnetic resonance imaging. *Journal of Manipulative and Physiological Therapeutics*. 2012.

Rahman FBA, Jones AYM, Pang MYC. Oxygen consumption required by stroke patients during completion of the Modified Rivermead Mobility Index (MRMI). *Hong Kong Physiotherapy Journal*. 2012;30:26-82.

Yu D, Jones AYM, Pang M. Development and validation of the Chinese version of the massachusetts general hospital acupuncture sensation scale: An exploratory and methodological study acupuncture in medicine. 2012;30:214-221. Doi:10.1136/acupmed-2012-010145.

Zakharova-Luneva E, Jull G, Johnston V, O'Leary S. Altered trapezius muscle behaviour in individuals with neck pain and clinical signs of scapular dysfunction. *Journal of Manipulative and Physiological Therapeutics*. 2012;35(5):346-53.

Department of Psychology



Anne Clair
Director, Psychology

Overview

Research performed at the Department of Psychology generally falls within the domain of behavioural medicine. Research focus is on health behaviours and the psychological impact of disease.

Applications within behavioural medicine include health promotion, symptom management and disease management. At present, a new psychology clinic is under development as a joint project with The University of Queensland's School of Psychology. This centre will provide new opportunities to establish joint research projects.

A collaboration was formed between the Griffith University's School of Psychology and Department of Psychology to work on a joint research project to investigate factors influencing psychological adjustment and community functioning following stroke.

Psychologists working with cancer patients are collaborating on a multi-site intervention study to treat fear of cancer recurrence.

Psychology research in the renal medicine area focused on the assessment of stress and burnout in renal nurses. Two projects investigating interventions to improve adherence in dialysis patients have commenced. Both these projects were funded by RBWH Foundation.

In 2012, a research working group was formed at the psychology department to engage more clinicians in research. It aims to provide a forum for collaboration, support and resource sharing.

Research staff

Name	Qualifications	Position	Interests/specialties
Sarah Anticich	PhD	Senior Clinical Psychologist	anxiety, resilience
Elisabeth Hamernik	MCP	Advanced Clinical Psychologist	adherence, depression
Sarah Winter (nee Olsen)	PhD	Advanced Clinical Psychologist	sleep disorders, chronic disease
Therese de Dassel	MCP	Senior Clinical Psychologist	perinatal developmental outcomes
Maree Grier	MCP	Senior Clinical Psychologist	psycho-oncology
Donna Spooner	PhD	Advanced Clinical Neuropsychologist	neurology
Amanda Fairclough	BA (Hons)	Senior Psychologist	psycho-oncology
Amanda Francis	MCP	Senior Clinical Psychologist	psycho-oncology

Publications

Hornsey M, Olsen S, Barlow F, Oei T. Testing a single-item visual analogue scale as a proxy for cohesiveness in group psychotherapy. *Group Dynamics: Theory, Research and Practice*. 2012;16,80-90.

Olsen S, Smith S, Oei T, Douglas J. Motivational Interviewing (MINT) improves continuous positive airway pressure (CPAP) acceptance and adherence: a randomised controlled trial. *Journal of Clinical and Consulting Psychology*. 2012;80,151-163.



Peter Slattery
Director, Rehabilitation
Engineering

Overview

Rehabilitation Engineering continues to work towards strengthening the evidence base for service delivery through a number of projects:

Programme theory analysis of custom cushion services for adult clients with spinal cord injury

This is a joint project with Metro South Spinal Outreach Team (SpOT) aiming to map the client journey from referral to six months post discharge to evaluate the outcomes of the current service model.

Progress has been reported at two Australian and New Zealand Spinal Cord Society (ANZSCoS) conferences and two Medical Aids Subsidy Scheme (MASS) prescriber forums. This research is in the final stages of collating data from the study. (Principal RBWH Researchers, Peter Slattery and Oliver Mason).

Seating simulation mannequin

This project involves developing a mannequin for use both in product development and testing and for use as an "artefact" in education seminars to assist in cross discipline communication.

A second generation mannequin was developed through a student project for 2012. This prototype has features which more realistically simulate skeletal deformities to improve the fidelity and hence training experience.

A training session was delivered to the Education Queensland Therapy Support Conference in 2012 (Principal Researcher, Peter Slattery).

Life cycle of flexible polyurethane foam in custom seating

Several projects have continued in this field. The primary goal is to better inform clients using custom cushions about the correct way in which to use and manage these devices.

A second phase cyclic testing rig and strength testing unit were completed in 2012 with the assistance of medical engineering students from QUT (Principal Researcher, Peter Slattery).

Research staff

Name	Qualifications	Position	Interests/specialties
Peter Slattery	BE (Mech) (Hons), MEngSc (Research), CPEng, RPEQ, NPER (Biomed), MIEAust	Director, Rehabilitation Engineering; Adj. Assoc. Prof. Faculty Science and Engineering, QUT	rehabilitation engineering, engineering design, inter-team communication

Department of Social Work Services



Dr Jan Hinson
Director, Social Work

Overview

The RBWH Department of Social Work Services identifies its mission as assisting patients, their families and carers with the impact of changes in health on individual and family functioning, and achieving maximum benefits from health care services through leadership in service provision, education and research.

The strategic objectives of the departmental research program are to:

- » Develop a program consistent with the strategic goals of the department;
- » Contribute significantly to research in social work, healthcare practice and service development and evaluation;
- » Maintain a work environment that supports research and evidence-based practice;
- » Promote actively research achievements and raise the profile of social work research;
- » Provide staff with access to a range of education and development opportunities related to social work research;
- » Share professional expertise and knowledge with local, national and international communities;
- » Ensure the social work departmental research program is appropriately funded and supported.

Research achievements in 2012 include:

- » QUT School of Public Health and Social Work and RBWH Patient Flow Unit – 'Younger adults with disability: Addressing the social factors and economic costs associated with length of hospital stay' (investigators: Redfern, H., Burton, J., Lonne, B., Fenn, M., Winter, E., Hinson, J.)
- » UQ School of Social Work and Human Services – 'Domestic and family violence during pregnancy and pathways to support and safety in rural, regional and remote communities in Queensland' (investigators: Walsh, D., Hafner, D., Hinson, J.)

Practice-based research:

- » Stage 1 entitled 'Adults with disability: Identifying factors associated with length of hospital stay via social worker and multidisciplinary care team member reports' progressed of the 'Younger adults with disability: Addressing the social factors and economic costs associated with length of hospital stay study' (investigators: Redfern, H., Burton, J., Lonne, B., Fenn, M., Winter, E., Hinson, J.)
- » 'IMPACT – IMproving Psychological health And decreasing Cardiovascular risk in patientS post burns' (investigators: Paratz J, Druery M, Plaza A, Cohen J, Muller M, Stockton K, Younger J), Burns, Trauma and Critical Care Research Centre, RBWH
- » 'Placement rotation in aged care (PRAC)' project initiated (investigators: Redfern, H., Fox, S., Hinson, J.)
- » Two doctoral theses progressed. One PhD thesis confirmed entitled 'Behind the masks: A study of social work, trauma and the complex hospital organisation' (Hinson, J.)
- » The 'Thriving not Surviving' project progressed implementing a capability and support framework for new staff and new graduates (De Ruiter, A.)

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Jan Hinson	BSocWk, MSWAP, MASSW (Acc.), PhD	Director, Social Work	trauma and violence, child protection
Helen Redfern	BSocWk, MASW, MAASW	Clinical/Research Specialist (part-time)	chronic disease, ethics, aged care and disability, clinical education
Wayne Middleton	BSocWk, Master of Health Science, Health Services Management	Social Worker Advanced	clinical governance
Martha Druery	BA (Psych), BSocWk (Hons)	Social Worker Advanced	psychosocial outcomes, burn injuries, family bereavement, trauma
Dr Suzette Fox	BSocWk, PhD	Clinical Educator	clinical education and supervision, work attitudes and life aspirations
Hayley Parsons	BSocWk, MASW	Social Worker	evidence-based practice, professional identify, organisational culture
Anne de Ruiter	MPhil	Social Worker	workforce capability

Supervised post-graduate students

Name	Current studies	Research topic
Hinson, J.	PhD	Behind the masks: A study of social work, trauma and the complex hospital organisation
Middleton, W.	Doctor of Health Science , HScD (Professional Doctorate)	An analysis of the understanding of and engagement in clinical governance by allied health professionals
Parsons, H.	Doctor of Social Work (Professional Doctorate)	Evidence-based hospital social workers' experience of organisational culture and professional identity
Brennan, K.	Masters of Social Work	Course work

Awards and achievements

Award	Event	Name
Doctorate of Philosophy	UQ Postgraduate Awards	Hinson, J.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Redfern, H., Burton, J., Lonne, B., Fenn, M., Winter, E., Hinson, J.	Younger adults with disability: Addressing the social factors and economic costs associated with length of hospital stay' Stage one entitled 'Adults with disability: Identifying factors associated with length of hospital stay via social worker and multidisciplinary care team member reports'	RBWH Allied Health Research Grant	\$30,000	2012
Redfern, H., Fox, S., Hinson, J.	Placement Rotation in Aged Care (PRAC)	Queensland Regional Training Networks Clinical Training Placements Innovation Project Funds	\$70,000	2012-2013

Department of Speech Pathology



Lynelle Bassett
Director, Speech Pathology

Overview

The Department of Speech Pathology provides tertiary and quaternary level clinical services to adult inpatients and outpatients with swallowing and/or communication disorders of varying complexity and aetiology.

Services are provided at the RBWH Acute Hospital, the Geriatric Evaluation and Management Unit (GEMU), and the Geriatric Assessment and Rehabilitation Unit (GARU), Rosemount.

The department participates in a range of specialist multidisciplinary teams and has a strong commitment to clinical research and speech pathology student education. In particular, the department has established key research partnerships with The University of Queensland Centre for Clinical Research and School of Health and Rehabilitation Sciences, resulting in ongoing collaborative research projects and publications.

Key research areas include:

- » Head and neck cancer – intervention, models of care and outcomes of patients following surgery and/or chemotherapy/radiotherapy
- » Stroke – intensity of aphasia treatment, provision of aphasia-friendly education
- » Dysphagia following thermal burn injury
- » Dysphagia – dysphagia screening, instrumental assessment and swallowing rehabilitation
- » Telehealth and telerehabilitation
- » Tracheostomy – simulated training.

Research staff

Name	Qualifications	Position	Interests/specialties
Lynell Bassett	BSpThy	Director, Speech Pathology	tracheostomy, burns
Ann-Louise Spurgin (nee Morton)	BSpPath (Hons); GradCertMgmt	Senior Speech Pathologist	cancer care, head and neck surgery
Jane Crombie	BSpPath; GradCertMgmt	Speech Pathologist (Advanced)	cancer care, head and neck surgery, telehealth
Sonia Baker	BSpPath	Speech Pathologist (Advanced)	tracheostomy, critical care
Clare Burns	BSpPath	Speech Pathologist (Advanced)	telehealth, telerehabilitation, head and neck surgery, cancer care
Anna Farrell	BSpPath (Hons), PhD	Speech Pathology Team Leader (Neuro-rehabilitation)	adult motor speech disorders; dysphagia
Sarah Heaton	BSpPath	Speech Pathology Team Leader (Acute)	dysphagia screening, burns
Marita Plunkett	BSpPath (Hons)	Speech Pathology Clinical Educator	clinical education, adult communication disorders
Penni Burfein	BSpPath	Speech Pathologist (Advanced)	rehabilitation
Leisa Turkington	BAppSc (Speech Path), MSc	Senior Speech Pathologist	dysphagia
Anna Rumbach	BSc (Hons), MSpPath, PhD	Lecturer, School of Health Rehabilitation Sciences, UQ	dysphagia associated with thermal burns
Prof. Elizabeth Ward	BSpThy (Hons), PhD, GradCertEd	Prof. Centre for Functioning and Health Research (CFAHR), Queensland Health; Conjoint Professor, School of Health and Rehabilitation Sciences, UQ	head and neck cancer, dysphagia associated with thermal burns, telehealth, telerehabilitation, ICU

Supervised post-graduate students

Name	Current studies	Research topic
Burns, C.	MPhil (under supervision)	Application of telehealth and telerehabilitation in head and neck cancer care

Awards and achievements

Award	Event	Name
RBWH Post Graduate Research Scholarship (\$30,500)		Burns, C.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Burns, C., Ward, E., Bassett, L., Greenup, P., Kenny, E., Malcolm, K., Turner, A., Rees, J.	Evaluation of a telehealth service for Head and Neck cancer patients: A new Speech Pathology service model	AusHSI	\$50,000	2012-2014

Publications

Burns CL, Ward EC, Hill A, Malcolm K, Bassett L, Del Rosso F, Kenny L, Greenup P. Consumer engagement and satisfaction with a speech pathology telehealth service supporting patients with head and neck cancer. *Asia-Pacific Journal of Clinical Oncology*. 2012;8(3):341.

Burns CL, Ward EC, Hill A, Malcolm K, Bassett L, Kenny L, Greenup P. A pilot trial of a speech pathology telehealth service for head and neck cancer patients. *Journal of Telehealth and Telecare*. 2012:1-4.

Rumbach AF, Ward EC, Cornwell PL, Bassett L, Muller MJ. Clinical progression and outcome of dysphagia following thermal burn injury: A prospective cohort study. *Journal of Burn Care and Research*. 2012;33(3):336-346.

Rumbach AF, Ward EC, Cornwell PL, Bassett LV, Muller MJ. Physiological characteristics of dysphagia following thermal burn injury. *Dysphagia*. 2012;27(3):370-383.

Sharma S, Ward EC, Burns C, Theodoros D, Russell T. Training the allied health assistant for the telerehabilitation assessment of dysphagia. *Journal of Telemedicine and Telecare*. 2012;18(5):287-291.

Ward EC, Burns CL. What's the evidence? Use of telerehabilitation to provide specialist dysphagia services. *Journal of Clinical Practice in Speech-Language Pathology*. 2012;14(3):124-128.

Ward EC, Sharma S, Burns C, Theodoros D, Russell T. Managing patient factors in the assessment of swallowing via telerehabilitation. *International Journal of Telemedicine and Applications*. 2012;132719.1-132719.6.

Ward EC, Sharma S, Burns C, Theodoros D, Russell T. Validity of conducting clinical dysphagia assessments for patients with normal to mild cognitive impairment via telerehabilitation. *Dysphagia*. 2012;27(4):460-72.

Ward EC, Baker S, Duggan B, Wall L, Hancock K, Bassett L, Hyde T. Use of simulation technology for clinical skills development in tracheostomy management. *Dysphagia*. 2012;27(4):619.





Assoc. Prof. Roger Allison
Executive Director
Cancer Care Services



Adj. Assoc. Prof. Alanna Geary
Nursing Director
Cancer Care Services

Overview

Research plays a critical role in the discovery and clinical development of new cancer treatments. Researchers from our service line are involved at every stage of the process from discovery of molecules to researching the best supportive care for patients receiving treatment.

Cancer Care Services at Royal Brisbane and Women's Hospital plays a key role at a state and national level.

We cover a large geographic area from Longreach to northern New South Wales, as well as our large metropolitan population. The degree of specialisation of our teams allows large numbers of patients to be offered involvement in clinical trials – from small investigator initiated trials to large international co-operative group trials. The increasing number of trials available attests to the increasing sophistication of treatment approaches and the dedication of our researchers.

Research, education and patient care underpin good multidisciplinary care. We undertake research into some of the newest technologies whilst appreciating that we have a duty to maximise the benefit for health dollars expended.

In presenting this report we thank our many collaborators, donors and patients who have made this possible.

Key departments

- » Clinical Haematology and Bone Marrow Transplant Research Unit
- » Department of Medical Oncology
- » Department of Radiation Oncology
- » Queensland Haemophilia Centre

Executive and directing staff

Assoc. Prof. Roger Allison
Executive Director, Cancer Care Services

Adj. Assoc. Prof. Alanna Geary
Nursing Director, Cancer Care Services

Assoc. Prof. Simon Durrant
Director, Clinical Haematology and Bone Marrow Transplant

Dr David Wyld
Director, Medical Oncology

Assoc. Prof. Graeme Dickie
Director, Radiation Oncology

Dr John Rowell
Director, Haematology

Clinical Haematology and Bone Marrow Transplant Research Unit



Assoc. Prof. Simon Durrant
Director, Clinical Haematology
and Bone Marrow Transplant

Overview

The Clinical Haematology and Bone Marrow Transplant Research Unit provides an exceptional research program for complex blood disorders including leukaemia, lymphoma and myeloma.

The unit is the Clinical Haematology Referral Centre for central Queensland, the Bone Marrow Transplant Referral Centre for Queensland and is the first bone marrow transplant unit in Australia to hold accreditation from the Foundation for the Accreditation of Cellular Therapy.

In addition to clinical haematology treatment, the unit provides:

- » Autologous stem cell transplants
- » Allogeneic stem cell and bone marrow transplants – related and unrelated
- » Clinical trials (both in-house and pharmaceutical-sponsored) for haematology and transplant patients.

The unit conducts a wide range of innovative trials, Phase I to Phase IV, into haematological malignancies. These trials include the testing of new therapeutic agents for the treatment of leukaemia, lymphoma and myeloma as well as improvements in the outcome of bone marrow transplantation.

The unit's active research program includes a variety of local investigator-driven and research facility studies, collaborative study group participation and participation in sponsored international studies.

There is an ongoing and strengthened collaboration between departmental clinical staff and the Queensland Institute of Medical Research, which corresponds to an improved ability to develop and participate in translational research programs.

Ongoing development of a national reference centre of excellence for cellular therapy of leukaemia and managing the adverse affects associated with stem cell transplant is continuing.

The program actively contributes bone marrow transplant outcome data to National and International Blood and Marrow Transplant Registries and maintains a bone marrow transplant specific database.

The Clinical Haematology and Bone Marrow Transplant Research Unit is committed to expanding the understanding of adult blood disorders and improving strategies for its management and treatment.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Simon Durrant	MRCS, LRCP, MBBS, FRCP, FRCPath	Director, Clinical Haematology and Bone Marrow Transplant; Assoc. Prof. Medicine, UQ	clinical haematology, bone marrow transplant
Assoc. Prof. Glen Kennedy	MBBS (Hons), FRACP, FRCPA	Deputy Director, Clinical Haematology and Bone Marrow Transplant	clinical haematology, bone marrow transplant
Prof. Andrew Boyd	BMedSc, MBBS, Ph.D, FRACP	Consultant Haematologist; Assistant Director and Senior Principal Research Fellow, QIMR; Professor, Experimental Haematology, UQ	clinical haematology, bone marrow transplant
Dr Ann Gillett	MBBS, FRACP, FRCPA	Consultant Haematologist	clinical haematology
Prof. Geoff Hill	BHB, MBChB, FRACP, FRCPA, MD	Clinical Haematology and Bone Marrow Transplant Staff Specialist	QIMR
Dr James Morton	Master of Medical Science (Epidemiology), MBBS, FRACP, FRCPA (Haematology)	Clinical Haematology and Bone Marrow Transplant Staff Specialist	clinical haematology, bone marrow transplant
Dr Jason Butler	MBBS, FRACP, FRCPA, M.Med.Sci (Clin Epid)(Newcastle)	Clinical Haematology and Bone Marrow Transplant Staff Specialist	clinical haematology, bone marrow transplant
Dr Kirk Morris	MBBS, FRACP, FRCPA	Senior Medical Officer, Clinical and Laboratory Haematology	clinical haematology
Dr Siok Tey	MBBS, FRACP, FRCPA (Clinical Haematology and Haematopathology)	Clinical Haematology and Bone Marrow Transplant Staff Specialist; Senior Lecturer, School of Medicine, UQ	clinical haematology, bone marrow transplant
Dr Ashish Misra	MBBS, FRACP, FRCPA	Clinical Haematology and Bone Marrow Transplant Staff Specialist	clinical haematology, bone marrow transplant

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Elango Subramonia Pillai	MBBS, FRACP, FRCPA	Consultant Haematologist; Clinical Haematology and Bone Marrow Transplant Staff Specialist	clinical haematology, bone marrow transplant
Dr Steven Lane	MBBS, FRACP, FRCPA, FRCP, RCPA	Clinical Haematologist; Senior Research Officer, QIMR	clinical haematology, bone marrow transplant
Dr Cameron Curley	MBBS, FRACP, FRCPA	Clinical Haematology and Bone Marrow Transplant Staff Specialist	clinical haematology, bone marrow transplant

Supervised post-graduate students

Name	Current studies	Research topic
Vu, T.	PhD	Epigenetics in AML

Awards and achievements

Award	Event	Name
Ralph Doherty Science Prize, QIMR		Boyd, A.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Boyd, A.W., Reynolds, B.	EphA3 is a marker of glioma stem/progenitor cells and a potential target for therapy	NHMRC	\$560,000	2012-2014
Piper, M., Richards, L., Boyd, A.W., Bailey, T.	Nfib regulates glial differentiation during development and disease via repression of the key epigenetic protein, Ezh2	NHMRC	\$553,650	2012-2014
S Rose, S., Boyd, A.W., Fisk, N., Thomas, P.	The development of innovative multiplexed molecular imaging technology targeting improved diagnostic imaging of Glioblastoma Multiforme	NHMRC	\$389,910	2012-2014
Johns, T., Boyd, A.W., McDonald, K.	An integrated systems biology approach for the development of new therapeutic strategies for the treatment of high grade glioma	NHMRC	\$673,500	2012-2014
Khanna, R., Hill, G.R., Tey, S.K.	Developing personalised immunotherapies	QIMR Ride To Conquer Cancer Flagship Grant	\$1,200,000	2012-2015
Lane, S.	Targeting leukaemia stem cells to cure AML	Rhys Pengelly Fellowship in Leukaemia Research	\$450,000	2011-2014
Lane, S.	Treatment of blood diseases by targeting the disease-causing stem cells	Leukaemia Foundation of Australia/Cure Cancer Foundation Postdoctoral Fellowship	\$300,000	2011-2014
Lane, S.	Targeting human stem cells in JAK2 V617F position MPN	Leukaemia Foundation of Australia	\$100,000	2012-2014
Lane, S.	Targeting leukaemia stem cells in myeloproliferative neoplasms	NHMRC	\$451,000	2012-2014
Lane, S.	A novel human xenograft system to validate leukaemia stem cell function in vivo	Rio Tinto Ride to Conquer Cancer Project Grant	\$55,000	2012-2012

Publications

- Agarwal S, O'Donoghue S, Gowardman J, Kennedy G, Bandeshe H, Boots R. Intensive care unit experience of hematopoietic stem cell transplant patients: Internal Medicine Journal. 2012;42(7):748-754.
- Bensinger W, Maziarz RT, Jagannath S, Spencer A, Durrant S, Becker PS, Ewald B, Bilic S, Rediske J, Baeck J, Stadtmauer EA. A phase I study of lucatumumab, a fully human anti-CD40 antagonist monoclonal antibody administered intravenously to patients with relapsed or refractory multiple myeloma. British J Haematology. 2012;59:58-66.
- Coulthard MG, Morgan M, Woodruff TM, Arumugam TV, Taylor SM, Carpenter TC, Lackmann M, Boyd AW. Eph/Ephrin signaling in injury and inflammation. Am J Pathol. 2012;181(5):1493-503.
- Curley C, Pillai E, Mudie K, Western R, Hutchins C, Durrant S, Kennedy GA. Outcomes after major or bidirectional ABO-mismatched allogeneic hematopoietic progenitor cell transplantation after pretransplant isoagglutinin reduction with donor-type secretor plasma with or without plasma exchange. Transfusion. 2012;52:291-297.
- de Bock CE, Ardjmand A, Molloy TJ, Bone SM, Johnstone D, Campbell DM, Shipman KL, Yeadon TM, Holst J, Spanevello MD, Nemes G, Catchpoole DR, Lincz LF, Boyd AW, Burns GF, Thorne RF The Fat1 cadherin is overexpressed and an independent prognostic factor for survival in paired diagnosis-relapse samples of precursor B-cell acute lymphoblastic leukemia. Leukemia. 2012;26:918-926.
- Dixon KJ, Munro KM, Boyd AW, Bartlett PF, Turnley AM. Partial change in EphA4 knockout mouse phenotype: loss of diminished GFAP upregulation following spinal cord injury. Neurosci Lett. 2012;525(1):66-71.
- Garizio DG, Wilgen U, Williams B, Kennedy GA. Clinical utility of ADAMTS-13 testing in suspected thrombotic microangiopathy (TMA): an audit of ADAMTS-13 activity assay requests in routine practice from a tertiary hospital. Pathology. 2012;44(7):638-641.
- Heidel FH, Bullinger L, Feng Z, Wang Z, Neff TA, Stein L, Kalaitzidis D, Lane SW. Genetic and pharmacologic inhibition of β -catenin targets imatinib-resistant leukemia stem cells in CML. Armstrong SA. Cell Stem Cell. 2012;10(4): 412-24.
- Jagasia MH, Abonour R, Long GD, Bolwell BJ, Laport GG, Shore TB, Durrant S, Szer J, Chen M-G, Lizambri R, Waller EK. Palifermin for the reduction of acute GVHD: a randomised, double-blind, placebo-controlled trial. Bone Marrow Transplantation. 2012;47:1350-1355.
- Kalaitzidis D, Sykes SM, Wang Z, Punt N, Tang Y, Ragu C, Sinha AU, Lane SW, Souza AL, Clish CB, Anastasiou D, Gilliland DG, Scadden DT, Guertin DA, Armstrong SA. mTOR complex 1 plays critical roles in hematopoiesis and Pten-loss-evoked leukemogenesis. Cell Stem Cell. 2012;11(3):429-39.
- Lane SW. Bad to the Bone. Blood. 2012;119(2):323-5.
- Lane SW, De Vita S, Alexander KA, Karaman R, Milsom MD, Dorrance AM, Purdon A, Louis L, Boussein ML, Williams DA. Rac signaling in osteoblastic cells is required for normal bone development but is dispensable for hematopoietic development. Blood. 2012;119(3):736-44.
- Lane SW, Gill D, McMillan NA, Saunders N, Murphy R, Spurr T, Keane C, Fan HM, Mollee P. Valproic acid combined with cytosine arabinoside in elderly patients with acute myeloid leukemia has in vitro but limited clinical activity. Leuk Lymphoma. 2012;53(6):1077-83.
- Mullally A, Lane SW, Brumme K, Ebert BL. Myeloproliferative neoplasm animal models. Hematol Oncol Clin North Am. 2012;26(5): 1065-81.
- Mullally A, Poveromo L, Schneider RK, Al-Shahrour F, Lane SW, Ebert BL. Distinct roles for long-term hematopoietic stem cells and erythroid precursor cells in a murine model of Jak2V617F-mediated polycythemia vera. Blood. 2012;120(1):166-72.
- Robb R and Hill GR. The interferon dependent orchestration of innate and adaptive immunity after transplantation. Blood. 2012; 119:5351-8.
- Smith C, Elhassen D, Gras S, Wynn KK, Dasari V, Tellam J, Tey SK, Rehan S, Liu YC, Rossjohn J, Burrows SR, Khanna R. Endogenous antigen presentation impacts on T-box transcription factor expression and functional maturation of CD8+ T cells. Blood. 2012;120(16):3237-45.
- Serody J and Hill GR. The IL-17 differentiation and its role in transplant outcome. Biol Blood Marrow Transplant. 2012;18:S56-61.
- Tey SK, Khanna R. Host immune system strikes back: autophagy-mediated antigen presentation bypasses viral blockade of the classic MHC class I processing pathway. Autophagy. 2012;8(12):1839-41.

Department of Medical Oncology



Dr David Wyld
Director, Medical Oncology

Overview

The Department of Medical Oncology provides clinical services to patients at RBWH and The Prince Charles Hospital (TPCH). It also acts as the major tertiary referral centre for the central zone, including providing outreach clinics to Rockhampton, Hervey Bay and Bundaberg.

The department has an ongoing, active clinical research program and is currently involved in approximately 70 Clinical Trials. These include RBWH specific investigator initiated studies, large international studies and studies conducted as part of Australian cooperative cancer-trials groups, (such as the ANZ Breast Cancer Trials Group, the ANZ Gastro-Intestinal Trials Group, the ANZ Lung Cancer Trials Group, The Australian and New Zealand Urogenital and Prostate cancer Trials group and the ANZ Gynaecology-Oncology Group).

The worth of our clinical trials program is acknowledged by the Queensland Cancer Fund, which provides funding for research staff on the basis of demonstrated accrual to approved, unfunded randomised Phase II and III studies.

Several clinical staff from the unit also have broader roles within Australasian collaborative cancer trials groups, including membership of executive committees, roles as Australian Principal Investigators for some national studies, positions on individual Australia-wide trial management committees and on trial data monitoring and safety committees.

There is ongoing collaboration between departmental clinical staff and other institutions such as the Queensland Institute of Medical Research (QIMR) and TPCP, improving the unit's ability to develop and participate in translational research programs.

Areas of specific interest include Dr Inglis' collaborative work in the area of neuro-oncology, Dr Hughes' ongoing collaboration related to pulmonary malignancies with Dr Fong at TPCH, Dr Burge's collaboration with Dr Leggett's laboratory regarding colorectal cancer, ongoing collaboration with the RBWH Department of Nuclear Medicine in areas including investigating the utility of PET imaging in staging of operable pancreatic cancer as well as ongoing work related to imaging and therapy for neuroendocrine tumours. Head and neck malignancies and gynaecologic cancers remain areas of specific ongoing clinical research activity.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr David Wyld	MBBS (Hons), FRACP	Director Medical Oncology	gastro-intestinal, neuroendocrine
Dr Brett Hughes	BSc (Med), MBBS (Hons), FRACP	Staff Specialist	lung, mesothelioma, head and neck, thyroid
Assoc. Prof. Nicole McCarthy	MBBS (Hons), MHSc, FRACP	Staff Specialist	breast, gynaecology
Dr Geoffrey Beadle	MBBS, FRACP, FRACR	Staff Specialist	breast cancer
Dr Matthew Burge	MBChB, FRACP	Staff Specialist	gastro-intestinal, phase I studies
Dr Melissa Eastgate	MBBS, FRACP	Staff Specialist	gastro-intestinal, melanoma, head and neck cancer
Dr Michelle Nottage,	MBChB, FRACP	Staff Specialist	breast, head and neck cancers
Dr Rick Abraham	MBBS, MMedSc, FRACP	Staff Specialist	lung, urology, breast cancer
Dr Po-Ling Inglis	BSc (Molecular Biology), MBBS, FRACP	Staff Specialist	breast, lung, central nervous system
Dr Jeffrey Goh,	MBBS, FRACP	Staff Specialist	gynaecology, central nervous system
Dr Alison Hadley	MBBS (Hons), MMed (Clin Epi), FRACP	Staff Specialist	gynaecology, breast, gastro-intestinal cancer
Dr Amit Sharma	MBBS, MRCP, FRACP	Medical Oncology Fellow	
Annette Cubitt	RN, Grad Cert (Clinical Trials Management), CCRP	Clinical Trials Manager	
Jenny Campbell	RN, BSc (Nursing)	Clinical Trial Coordinator	

Research staff

Name	Qualifications	Position	Interests/specialties
Andrea McKenzie	EEN	Clinical Trial Coordinator	
Dianna Lewis	BSc (Nursing), GradCert (Cancer Nursing)	Clinical Trial Coordinator	
Jo-Ann Horn	RN	Clinical Trial Coordinator	
Natasha Roberts	BN (Hons)	Clinical Trial Coordinator	
Amy Ives	BN AssocSc N	Clinical Trial Coordinator	
David Hickey	BAppSc	Clinical Trial Coordinator	
Victoria Holt	BA (Hons), Grad Dip Lib Stud	Research Assistant	

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Department of Medical Oncology	Cancer Clinical Trial Data Management Grant	Queensland Cooperative Oncology Group	48,000.00	2012
Inglis, P., QIMR, QBI, RBWH	QIMR/QBI/RBWH Brain tumour and Cell Culture Bank	RBWH Private Practice Trust Fund	\$92,000.00	2011-2012
Inglis, P., TPCH, RBWH	Familial lung cancer discovering genes for inherited lung cancer	TPCH Foundation	\$10,000.00	2012
Hughes, B.	Improving quality of life in high-risk cancer populations: A randomised trial of a structured intervention for head and neck cancer survivors	NHMRC	\$476,074.46	2012
Hughes, B.	Detection of treatment-responsive lung cancer mutations	TPCH Foundation	\$94,515	2012

Publications

Alexandre J, Brown C, Coeffic D, Raban N, Pfisterer J, Mäenpää J, Chalchal H, Fitzharris B, Volgger B, Vergote I, Pisano C, Ferrero A, Pujade-Lauraine E. CA-125 can be part of the tumour evaluation criteria in ovarian cancer trials: Experience of the GCIG CALYPSO trial. *Br J Cancer*. 2012;Feb 14;106(4):633-7 (RBWH HREC Protocol 2005/058) McCarthy NM, Goh J.

Brown TE, Spurgin AL, Ross L, Tripcony L, Keller J, Hughes BG, Hodge R, Walker Q, Banks M, Kenny LM, Crombie J. Validated swallowing and nutrition guidelines for patients with head and neck cancer: Identification of high-risk patients for proactive gastrostomy. *Head Neck*. 2012; Sep 13 doi: 10.1002/hed.23146. [Epub ahead of print] Hughes BG.

Brundage M, Gropp M, Mefti F, Mann K, Lund B, Gebiski V, Wolfram G, Reed N, Pignata S, Ferrero A, Brown C, Eisenhauer E, Pujade-Lauraine E. Health-related quality of life in recurrent platinum-sensitive ovarian cancer: Results from the CALYPSO trial. *Ann Oncol*. 2012;Aug;23(8):2020-7 (RBWH HREC Protocol 2005/058) McCarthy NM, Goh J.

Burge M, Islam MF, Morris K, Windsor M, Perry-Keene J, Curley C. Successful treatment of a primary mediastinal germ cell tumour complicated by hemophagocytic syndrome. *Asia Pac J Clin Oncol*. 2012 Dec;8(4):e97-8. Burge M.

Chan RJ, Alexander A, Bransdon M, Webster J, Hughes BG, Brown L, Graham T. Challenging the distal-to-proximal cannulation technique for administration of anticancer therapies: a prospective cohort study. *Cancer Nurs*. 2012;Sep-Oct;35(5):E35-40 (HREC/09/QRBW/72) Hughes BG.

Chirgwin J, Sun Z, Smith I, Price KN, Thürlimann B, Ejlersen B, Bonnefoi H, Regan MM, Goldhirsch A, Coates AS; BIG 1-98 Collaborative and International Breast Cancer Study Groups. The advantage of letrozole over tamoxifen in the BIG 1-98 trial is consistent in younger postmenopausal women and in those with chemotherapy-induced menopause. *Breast Cancer Res Treat*. 2012 Jan;131(1):295-306. (RBWH HREC Protocol 2001/067) McCarthy NM, Beadle G.

Ewertz M, Gray KP, Regan MM, Ejlersen B, Price KN, Thürlimann B, Bonnefoi H, Forbes JF, Paridaens RJ, Rabaglio M, Gelber RD, Colleoni M, Láng I, Smith IE, Coates AS, Goldhirsch A, Mouridsen HT. Obesity and risk of recurrence or death after adjuvant endocrine therapy with letrozole or tamoxifen in the Breast International Group 1-98 trial. *J Clin Oncol*. 2012;Nov 10;30(32):3967-75 (RBWH HREC Protocol 2001/067) McCarthy NM, Beadle G.

Publications

- Fernandez-Cuesta L, Oakman C, Falagan-Lotsch P, Smoth K, Quinaux E, Buyse M, Dolci MS, De Azambuja E, Hainaut P, Dell'Orto P, Larsimont D, Francis PA, Crown J, Piccart-Gebhart M, Viale G, Di Leo A, Olivier M. Prognostic and predictive value of TP53 mutations in node-positive breast cancer patients treated with anthracycline- or anthracycline/taxane based adjuvant therapy: Results from the BIG 02-98 phase III trial. *Breast Cancer Res.* 2012;May 2;14(3):R70 (RBWH HREC Protocol 1999/69) Wyld D.
- Fizazi K, Scher HI, Molina A, Logothetis CJ, Chi KN, Jones RJ, Staffurth JN, North S, Vogelzang NJ, Saad F, Mainwaring P, Harland S, Goodman OB Jr, Sternberg CN, Li JH, Kheoh T, Haqq CM, de Bono JS Abiraterone acetate for treatment of metastatic castration-resistant prostate cancer: final overall survival analysis of the COU-AA-301 randomised, double-blind, placebo-controlled phase 3 study. *Lancet Oncol.* 2012;Oct;13(10):983-92 (RBWH HREC Protocol 2008/028) Nottage M, Inglis PL.
- Gladieff L, Ferrero A, De Rauglaudre G, Brown C, Vasey P, Reinthaller A, Pujade-Lauraine E, Reed N, Lorusso D, Siena S, Helland H, Elit L, Mahner S. Carboplatin and pegylated liposomal doxorubicin versus carboplatin and paclitaxel in partially platinum-sensitive ovarian cancer patients: Results from a subset analysis of the CALYPSO phase III trial. *Ann Oncol.* 2012 May;23(5):1185-9 (RBWH HREC Protocol 2005/058) McCarthy NM, Goh J.
- Goldstein D, Spry N, Cummins MM, Brown C, van Hazel GA, Carroll S, Selva-Nayagam S, Borg M, Ackland SP, Wratten C, Shapiro J, Porter IW, Hruby G, Horvath L, Bydder S, Underhill C, Harvey J, GebSKI VJ. Australasian Gastro-Intestinal Trials Group. The GOFURTO Study: AGITG phase II study of fixed dose rate gemcitabine-oxaliplatin integrated with concomitant 5FU and 3D conformal radiotherapy for the treatment of localised pancreatic cancer. *Br J Cancer.* 2012;Jan 3;106(1):61-9 (RBWH HREC Protocol 2005/096) Eastgate M.
- Kirchhoff T, Gaudet MM, Antoniou AC, et al. Breast cancer risk and 6q22.33: combined results from Breast Cancer Association Consortium and Consortium of Investigators on Modifiers of BRCA1/2. *PLoS One.* 2012;7(6):e35706. doi: 10.1371/journal.pone.0035706. Epub 2012 Jun 29 (This publication is electronic only.) Wyld D.
- Neoptolemos JP, Moore MJ, Cox TF, Valle JW, Palmer DH, McDonald AC, Carter R, Tebbutt NC, Dervenis C, Smith D, Glimelius B, Charnley RM, Lacaine F, Scarfe AG, Middleton MR, Anthoney A, Ghaneh P, Halloran CM, Lerch MM, Oláh A, Rawcliffe CL, Verbeke CS, Campbell F, Büchler MW, European Study Group for Pancreatic Cancer. Effect of adjuvant chemotherapy with fluorouracil plus folinic acid or gemcitabine vs observation on survival in patients with resected periampullary adenocarcinoma: The ESPAC-3 periampullary cancer randomised trial. *JAMA.* 2012;Jul 11;308(2):147-56 (RBWH HREC Protocol 2004/047) Wyld D.
- Peate M, Meiser B, Cheah BC, Saunders C, Butow P, Thewes B, Hart R, Phillips KA, Hickey M, Friedlander M. Making hard choices easier: A prospective, multi-centre study to assess the efficacy of a fertility-related decision aid in young women with early-stage breast cancer. *Br J Cancer.* 2012;Mar 13;106(6):1053-61 (RBWH HREC Protocol 2006/029) McCarthy NM.
- Punnoose EA, Atwal S, Liu W, Raja R, Fine BM, Hughes BG, Hicks RJ, Hampton GM, Amler LC, Pirzkall A, Lackner MR. Evaluation of circulating tumor cells and circulating tumor DNA in non-small cell lung cancer: Association with clinical endpoints in a Phase II Clinical Trial of Pertuzumab and Erlotinib. *Clin Cancer Res.* 2012;Apr 15;18(8):2391-401 (RBWH HREC Protocol 2008/019). Hughes BG.
- Price TJ, Zannino D, Wilson K, Simes J, Cassidy J, Van Hazel GA, Robinson BA, Broad A, Ganju V, Ackland SP, Tebbutt NC. Bevacizumab is equally effective and no more toxic in elderly patients with advanced colorectal cancer: A subgroup analysis from the AGITG MAX trial: An international, randomised, controlled trial of capecitabine, bevacizumab and mitomycin C. *Annals of Oncology.* 2012;23(6):1353–1536 (RBWH HREC Protocol 2005/076) Wyld D.
- Regan MM, Leyland-Jones B, Bouzyk M, Pagani O, Tang W, Kammiller R, Dell'orto P, Biasi MO, Thürlimann B, Lyng MB, Ditzel HJ, Neven P, Debled M, Maibach R, Price KN, Gelber RD, Coates AS, Goldhirsch A, Rae JM, Viale G, Breast International Group (BIG) 1-98 Collaborative Group. CYP2D6 genotype and tamoxifen response in postmenopausal women with endocrine-responsive breast cancer: The Breast International Group 1-98 Trial. *J Natl Cancer Inst.* 2012;104(6):441-451. (RBWH HREC Protocol 2001/067) McCarthy NM, Beadle G.
- Ribi K, Aldridge J, Phillips KA, Thompson A, Harvey V, Thürlimann B, Cardoso F, Pagani O, Coates AS, Goldhirsch A, Price KN, Gelber RD, Bernhard J, BIG 1-98 Collaborative Group, International Breast Cancer Study Group. Subjective cognitive complaints one year after ceasing adjuvant endocrine therapy for early stage breast cancer. *Br J Cancer.* 2012 May 8;106(10):1618-25. (RBWH HREC Protocol 2001/067) McCarthy NM, Beadle G.
- Scher HI, Fizazi K, Saad F, Taplin ME, Sternberg CN, Miller K, de Wit R, Mulders P, Chi KN, Shore ND, Armstrong AJ, Flaig TW, Fléchon A, Mainwaring P, Fleming M, Hainsworth JD, Hirmand M, Selby B, Seely L, de Bono JS. Increased survival with enzalutamide in prostate cancer after chemotherapy. *N Engl J Med.* 2012;Sep 27;367(13):1187-97. Nottage M.
- Schmoll HJ, Cunningham D, Sobrero A, Karapetis CS, Rougier P, Koski SL, Kocakova I, Bondarenko I, Bodoky G, Mainwaring P, Salazar R, Barker P, Mookerjee B, Robertson J, Van Cutsem E. Cediranib with mFOLFOX6 versus bevacizumab with mFOLFOX6 as first-line treatment for patients with advanced colorectal cancer: a double-blind, randomised phase III study (HORIZON III). *J Clin Oncol.* 2012 Oct 10;30(29):3588-95 (RBWH HREC Protocol 2006/102) Wyld D.
- So WK, Chan RJ, Chan DN, Hughes BG, Chair SY, Choi KC, Chan CW. Quality-of-life among head and neck cancer survivors at one year after treatment--a systematic review. *Eur J Cancer.* 2012;Oct;48(15):2391-408.
- Sorbye H, Mauer M, Gruenberger T, Glimelius B, Poston GJ, Schlag PM, Rougier P, Bechstein WO, Primrose JN, Walpole ET, Finch-Jones M, Jaek D, Mirza D, Parks RW, Collette L, Van Cutsem E, Scheithauer W, Lutz MP, Nordlinger B, EORTC Gastro-Intestinal Tract Cancer Group, Cancer Research UK (CRUK), Arbeitsgruppe Lebermetastasen und-tumoren in der Chirurgischen Arbeitsgemeinschaft Onkologie (ALM-CAO), Australasian Gastro-Intestinal Trials Group (AGITG), Fédération Francophone de Cancérologie Digestive (FFCD). Predictive factors for the benefit of perioperative FOLFOX for resectable liver metastasis in colorectal cancer patients (EORTC Intergroup Trial 40983). *Annals of Surgery.* 2012;255(3):534–539 (RBWH HREC Protocol 2001/035) Wyld D.

Publications

Sultana A, Cox T, Ghaneh P, Neoptolemos JP. Adjuvant therapy for pancreatic cancer. Recent Results Cancer Res. 2012;196:65-88 (RBWH HREC Protocol 2001/035 and 2004/047) Wyld D.

Wagner U, Marth C, Largillier R, Kaern J, Brown C, Heywood M, Bonaventura T, Vergote I, Piccirillo MC, Fossati R, GebSKI V, Lauraine EP. Final overall survival results of phase III GCIG CALYPSO trial of pegylated liposomal doxorubicin and carboplatin vs paclitaxel and carboplatin in platinum-sensitive ovarian cancer patients. Br J Cancer. 2012;Aug 7;107(4):588-91 (RBWH HREC Protocol 2005/058) McCarthy NM, Goh J.

Wylie N, Adib R, Barbour AP, Fawcett J, Hill A, Lynch S, Martin I, O'Rourke TR, Puhalla H, Rutherford L, Slater K, Whiteman DC, Neale RE, Queensland Pancreatic Cancer Study Group. Surgical management in patients with pancreatic cancer: A Queensland perspective. ANZ J Surg. 2012;Oct 24;1445-2197. Burge M.

Zaman K, Thürlimann B, Huober J, Schönenberger A, Pagani O, Lüthi J, Simcock M, Giobbie-Hurder A, Berthod G, Genton C, Brauchli P, Aebi S, Swiss Group for Clinical Cancer Research (SAKK). Bone mineral density in breast cancer patients treated with adjuvant letrozole, tamoxifen, or sequences of letrozole and tamoxifen in the BIG 1-98 study (SAKK 21/07) Ann Oncol. 2012;Jun;23(6):1474-81 (RBWH HREC Protocol 2001/067) McCarthy NM, Beadle G.

Department of Radiation Oncology



Assoc. Prof. Graeme Dickie
Director, Radiation Oncology

Overview

The Department of Radiation Oncology provides radiotherapy services to a wide geographic area with treatment being delivered at the Royal Brisbane and Women's Hospital.

The department provides service to the Royal Children's Hospital (RCH) as well as outreach to the Prince Charles, Rockhampton, Longreach, Hervey Bay, Maryborough, Bundaberg, Redcliffe and Caboolture Hospitals. The unit is fortunate to be the first Australian site to have helical TomoTherapy available.

It has been a productive year for cancer research in Radiation Oncology at RBWH. Our core clinical research activity continues in concert with the busy clinical department.

We are grateful for our donors who continue to make funds available to support our work. We are particularly proud of our success in highly competitive National Health and Medical Research Council (NHMRC) and Australian Cancer Research Foundation (ACRF) grants.

Over the last few years the trials program has progressed from largely retrospective investigator initiated trials to more translational and prospective projects.

Physics research has assumed a greater profile and we have a number of investigator initiated projects. Our new computing cluster has dramatically improved computation time and accelerated this work. Advanced imaging remains central to these technologies. This underlines the importance of an active imaging and medical physics research program.

We look forward to further interaction with our collaborators at Queensland Institute of Medical Research (QIMR), Queensland University of Technology (QUT), The University of Queensland Centre for Clinical Research (UQCCR) and the Queensland PET centre. We thank our collaborators and especially the many patients who have given their time to be involved in clinical trials.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Graeme Dickie	MBBS, MBA, FRACP, FRANZCR	Director, Radiation Oncology	radiation oncology
Assoc. Prof. Roger Allison	MBBS, MRCP, FRCR, FRANZCR, FACHPM	Staff Specialist	radiation oncology, paediatric
Dr Philip Chan	MBBS, FRANZCR	Staff Specialist	radiation oncology
Dr Robyn Cheuk	MBBS (SA), DRACR	Staff Specialist	radiation oncology, paediatric
Dr Michael Fay	MBChB, FRACP, FRANZCR	Director, Research	radiation oncology, brain tumours
Dr Michelle Grogan	MBBS, FRANZCR	Staff Specialist	radiation oncology
Dr Lizbeth Kenny	MBBS, FRANZCR	Staff Specialist	radiation oncology
Dr Charles Lin	MBBS, FRANZCR	Staff Specialist	radiation oncology
Dr Gary Pratt	MBBS, FRANZCR	Staff Specialist	radiation oncology
Dr Sue Whitaker	MBChB, DMRT, FRCR, FRANZCR	Staff Specialist	radiation oncology
Lee Tripcony	BSc	Principal Clinical Scientist Statistics	database, statistics
Jacqui Keller	BBus (HIM)	Manager Clinical Trials	research, clinical trials
Jennifer Edmunds	RN, BHSc	Clinical Trial Coordinator	research, clinical trials
Rebecca Pincus	RN, BN, GradCertCDM	Clinical Trial Coordinator	research, clinical trials
Charmaine Mickelwright		Research Assistant	research, clinical trials
Greg Rattray	BAppSc (MRT), GradCertHMgt, FIR	Director, Radiation Therapy	radiation therapy
Daniel Bryant	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Kurt Burrows	BAppSc (RT)	Radiation Therapist	radiation therapy
Adrian Celati	BAppSc (RT)	Radiation Therapist	radiation therapy
Kevina Chroma	MHSc, MRS, GradDipHMgt	Radiation Therapist (Advanced)	radiation therapy
Stacey Cooke	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy

Research staff

Name	Qualifications	Position	Interests/specialties
Jemma Devereaux	BAppSc (RT)	Radiation Therapist	radiation therapy
Shayne Etherton	BAppSc (RT)	Radiation Therapist	radiation therapy
Selina Harris	BAppSc (RT)	Radiation Therapist	radiation therapy
Rob McDowall	GradCertHMgt, DipAppScRT	Senior Radiation Therapist (Planning)	radiation therapy
Janine Miles	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Julie-Anne Outhwaite	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Anthony Pagidas	BAppSc (RT)	Radiation Therapist	radiation therapy
Michelle Ralston	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Kathy Vidler	Dip.App Sc RT	Radiation Therapist	radiation therapy
Christopher Walsh	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Darren Cassidy	BSc (Hons)	A/Director, Therapeutic Physics	medical physics
Robert Fitchew	BSc (Hons), MSc	Deputy Director, Medical Physics	medical physics
Phil Back	BSc, MSc, PhD	Physicist - Advanced	medical physics
Alastair Dick	BSc, MSc	A/Principal Physicist, Treatment Planning and Dosimetry	medical physics
Zoe Baldwin	BMRP	A/Physicist (Senior)	medical physics
Onno Kamst	BSc, MSc, GradDipEd	Physicist (Advanced)	medical physics
Craig Lancaster	BSc, Grad Dip Med Phys	Senior Physicist	medical physics
Tim Markwell	BIT, BAppSc (Physics), MSc	Physicist Oncology Treatment	medical physics
Sanna Nilsson	BSc, MSc	Senior Physicist	medical physics
Christopher Poole	BEng, MSc, PhD	Medical Physicist, Research	medical physics
Steven Sylvander	BSc, MSc, PhD	Physicist (Advanced)	medical physics

Supervised post-graduate students

Name	Current studies	Research topic
Baldwin, Z.	Masters (Research)	Commissioning of total body irradiation on oncentra masterplan
Burrows, K.	Masters (Research)	Optimisation of cranial immobilisation in patients with brain cancer treated on TomoTherapy
Kamst, O.	PhD	Portal dosimetry optimisation
Markwell, T.	PhD	Mega-voltage cone-beam CT
Outhwaite, J.	PhD	Head and neck immobilisation and adaptive dosimetry for variation in patient contour during treatment
Poole, C.	PhD	Faster monte carlo simulation of radiotherapy geometries

Awards and achievements

Award	Event	Name
2012 Kenneth Clarke Journal Prize, Council of the Australian College of Physical Scientists and Engineers in Medicine Award for the best paper in Australasian Physical and Engineering Sciences in Medicine (Volume 34)		Poole, C.
Best Physicist in Exam Series, Council of the Australian College of Physical Scientists and Engineers in Medicine for the Best Physicist in Exam Series		Baldwin, Z.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Rose, S., Kenny, L., Fay, M., Fisk, N. et al.	Australian Cancer Research Foundation Molecular Oncology Translational Imaging Facility	Australian Cancer Research Foundation	\$2,000,000	2012
Schofield, P., Aranda, S., Juraskova, I., Mileshekin, L., Krishnasamy, M., White, K. (Cheuk, R-AI)	A nurse-led psychosocial intervention with peer support to reduce needs in women being treated with radiotherapy for gynaecological cancer: A RCT	NHMRC	\$1,133 \$411.80	2011-2014
Kneebone, A., Williams, S., Frydenberg, M., Duchesne, G., Fisher, R., Kenny, L.	RAVES: Radiotherapy adjuvant versus early salvage following radical prostatectomy	NHMRC	\$775,000	2009-2013
Rose, S., Crozier, S., Salvado, S., Coulthard, A., Thomas, P., Fay, M.	Improving the assessment of brain tumour treatment outcome using 18F-FDOPA PET – MRI fusion	NHMRC	\$637,125	2010-2013
Valery, P., Garvey, G., Fay, M., Martin, J., Baade, P.	Patterns of care, co-morbidities and quality of life in indigenous people with cancer	NHMRC	\$610,731	2011-2013
Rose, S., Boyd, A., Whittaker, A., Thomas, P., Fay, M., Fisk, N.	The development of innovative multiplexed molecular imaging technology targeting improved diagnostic imaging of Glioblastoma Multiforme	NHMRC	\$389,925	2012-2015
Dickie, GJ.	Cancer Council Queensland clinical trial data manager grant	Cancer Council Queensland	\$74,880	2012
Chan, P., Thomas, P.	Prognostic value of assessing hypoxia in tumours using FMISO OET during a course of radiation therapy –proof of concept study	RBWH Foundation	\$30,000	2012-2013
Fay, M.	Rotary Club – Rockhampton North	Rotary	\$24000	2012
Fay, M., Markwell, T.	Low-cost, high-performance Monte Carlo cluster	RBWH Private Practice Trust Fund	\$8,500	2012
Bettington, C.	HREC/12/QRBW/129 A single-arm prospective study of the effect of preoperative chemoradiotherapy on sexual dysfunction in men with locally advanced rectal cancer	RANZCR Research Grant	\$10 000	2012-2016

Publications

Brown TE, Spurgin AL, Ross L, Tripcony L, Keller J, Hughes BGM, Hodge R, Walker Q, Banks M, Kenny LM, Crombie J. Validated swallowing and nutrition guidelines for patients with head and neck cancer: Identification of high-risk patients for proactive gastrostomy. Head and Neck. Published on-line 13 September 2012

Buyyounouski M, Pickles T, Kestin L, Allison R, Williams S. Validating the interval to biochemical failure for the identification of potentially lethal prostate cancer. J Clin Oncol. 2012;30(15):1857-63.

Cartmill B, Cornwell P, Ward E, Davidson W, Nund R, Bettington C, Rahbari RM, Poulsen M, Porceddu S. Emerging understanding of dosimetric factors impacting on dysphagia and nutrition following radiotherapy for oropharyngeal cancer Head Neck. 2012 Jun 23. doi: 10.1002/hed.23040

Chan R, Keller J, Cheuk R, Blades R, Tripcony L, Keogh S. A double-blind randomised controlled trial of a natural oil-based emulsion (Moogoo Udder Cream®) containing allantoin versus aqueous cream for managing radiation-induced skin reactions in patients with cancer. Radiation Oncology. 2012;7:121.

Chan R, Larsen E, Chan P. Re-examining the evidence in Radiation Dermatitis Management Literature: An Overview and a Critical Appraisal of Systematic Reviews. Int J Radiat Oncol Biol Phys. 2012;Nov 1;84(3):e357-62.

Crombie AK, Farah C, Tripcony L, Dickie G, Batstone MD. Primary chemoradiotherapy for oral cavity squamous cell carcinoma. Oral Oncol. 2012;Oct;48(10):1014-8. doi: 10.1016/j.oraloncology.2012.03.027. Epub 2012 Apr 18.

Denham J, Wilcox C, Joseph D, Spry N, Lamb D, Tai K, Matthews J, Atkinson C, Turner S, Christie D, Gogna N, Kenny L, Duchesne G, Delahunt B, McElduff P. Quality of life in men with locally advanced prostate cancer treated with leuprorelin and radiotherapy with or without zoledronic acid (TROG 03.04 RADAR): Secondary endpoints from a randomised phase 3 factorial trial. The Lancet Oncology. 2012;13:1260-70.

Publications

Denham J, Wilcox C, Lamb D, Spry A, Duchesne G, Atkinson C, Matthews J, Turner S, Kenny L, Tai K, Gogna N, Ebert M, Delahunt B, McElduff P, Joseph D. Rectal and urinary dysfunction in the TROG 03.04 RADAR trial for locally advanced prostate cancer. *Radiotherapy and Oncology*. 2012;105(2):184-192.

Fay M, Thomas P. Functional Imaging using PET and Radiotherapy Planning. *CancerForum*. Volume 36 Number 2 July 2012.

Goergen SK, Pool FJ, Turner TJ, Grimm JE, Appleyard MN, Crock C, Fahey MC, Fay MF, Ferris NJ, Liew SM, Perry RD, Revell A, Russell GM, Wang SS, Wriedt C. Evidence-based guideline for the written radiology report: Methods, recommendations and implementation challenges. *Journal of Medical Imaging and Radiation Oncology*. Article first published online 28 DEC 2012 DOI: 10.1111/1754-9485.12014

Graham P, Plant N, Graham J, Browne L, Martin Borg M, Capp A, Delaney GP, Harvey J, Kenny L, Francis M, Zissiadis Y. Digital photography as source documentation of skin toxicity: An analysis from the Trans Tasman Radiation Oncology Group (TROG) 04.01 Post-Mastectomy Radiation Skin Care Trial. *JMIR*. 2012;56(4):458-463.

Hansen C, Kenny L, Lakhani S, Ung O, Keller J, Tripcony L, Cheuk R, Grogan M, Vargas A, Vargas, Martin J. Tubular breast carcinoma: An argument against treatment de-escalation. *Journal of Medical Imaging and Radiation Oncology*. 2012;56;116–122.

Hughes BGM, Jain VK, Brown T, Spurgin AL, Hartnett G, Keller J, Tripcony L, Appleyard M, Hodge R. Decreased hospital stay and significant cost savings after routine use of prophylactic gastrostomy for high-risk patients with head and neck cancer receiving chemoradiotherapy at a tertiary cancer institution. *Head and Neck*. 2013;Mar;35(3):436-42. doi: 10.1002/hed.22992. [Epub May 18 2012.]

Kenny L. Interventional oncology: Can it walk the walk or will it just be all talk. Guest Editor - Royal College of Radiology Newsletter. December 2012.

Lin C, Sia E, Keller J. Concurrent chemoradiation for T3 glottic squamous cell carcinoma: A reasonable alternative to upfront laryngectomy. Published at Volume 2012 (2012), Article ID 461217, *Advances in Cancer: Research Treatment*.

Lin C, Tripcony L, Keller J, Poulsen M, Martin J, Jackson J, Dickie G. Perineural infiltration of cutaneous squamous cell carcinoma and basal cell carcinoma without clinical features. *Int J Radiat Oncol Biol Phys*. 2012; Jan 1;82:334-340.

Outhwaite J, McDowall R, Marquart L, Rattray G, Fielding A, Hargrave C. Training program impact on thermoplastic immobilisation for head and neck radiation therapy. *Radiography*. 16 Sep 2012 1e7

Poole CM, Cornelius I, Trapp JV, Langton CM. Fast Tessellated Solid Navigation in GEANT4. *Nuclear Science, IEEE Transactions on* 59.4. 2012:1695-1701.

Poole CM, Cornelius I, Trapp JV, Langton CM. A CAD interface for GEANT4. *Australasian Physical and Engineering Science in Medicine*. 2012;1-6.

Poole CM, Cornelius I, Trapp JV, Langton CM. Radiotherapy Monte Carlo simulation using cloud computing technology. *Australasian Physical and Engineering Sciences in Medicine*. 2012;35;4:497-502.

Rose S, Fay M, Bourgeat P, Dowson N, Salvado O, Gai Y, Coulthard A, Crozier S. Correlation of MRI-derived apparent diffusion coefficients in newly diagnosed gliomas with [18F]-Fluoro-L-Dopa PET: What are we really measuring with minimum ADC? *AJNR Am J Neuroradiol*. 2012 Oct 18

Singh P, Tripcony L, Nicklin J. Analysis of prognostic variables, development of predictive models and stratification of risk groups in surgically treated FIGO early-stage (IA-IIA) carcinoma cervix. *Int J Gynecol Cancer*. 2012;22(1):115-22.

Queensland Haemophilia Centre



Dr John Rowell
Director, Haematology

Overview

The Queensland Haemophilia Centre is a statewide service based at RBWH. The centre provides comprehensive care for those with haemophilia and other inherited bleeding disorders. Designated staff provide medical, nursing, physiotherapy and social work input into patient care. This includes specialised support including diagnosis, factor replacement therapy, musculo-skeletal and orthopaedic assessment and management, care and support in relation to blood-borne viruses, genetic counselling and psychosocial support.

This year the centre's Physiotherapist commenced a research project aiming to provide practical information for management of joints for individuals with haemophilia. This is a short trial looking at the immediate and short term response to gentle, hands on therapy for haemophilic arthritis in the knee and ankle.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr John Rowell	MBBS, FRCPA, MBA	Director, Haematology; Pathology Queensland and Queensland Haemophilia Centre, CCS	haemophilia
Beryl Zeissink	RN, MNurs, MSc (GenetCouns)	Clinical Nurse Consultant	haemophilia
Maureen Spilsbury	BSocWk (Hons)	Advanced Social Worker	psychosocial aspects of inherited bleeding disorders
Emma Patterson	BPhys	Advanced Physiotherapist	haemophilia, musculoskeletal physiotherapy

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Paterson, E., Rowell, J.	The effects of manual therapy for haemophilic arthritis of the lower limb: A pilot study	Haemophilia Research Fund	\$360	2012-2013

Publications

Brown SA, Barnes C, Curtin J, Dunkley S, Ockleford P, Rowell J, Smith M, Tran H. How we use recombinant activated factor VII in patients with Haemophilia A or B with inhibitors. Intern Med J. 2012;42(11):1243-50.



**Adj. Assoc. Prof.
Alanna Geary**
Nursing Director,
Cancer Care Services

Overview

The nursing team comprises 277 nursing staff, providing quality nursing care across the Clinical Haematology and Bone Marrow Transplant Unit, the Department of Medical Oncology, the Department of Radiation Oncology and the Queensland Haemophilia Centre.

The growing demand of cancer care has presented a challenge for the nursing profession in its workload, workforce issues, and most importantly the need to provide innovative and cost-effective nursing care. Cancer nurses play an important and unique role in responding to the needs of people affected by cancer throughout the continuum of care, from prevention to survivorship, end-of-life care and bereavement support.

The nursing research team was established in 2008 with the aim of providing an infrastructure for evidence generation and utilisation to ensure that our nursing care in Cancer Care Services is at the world-class level.

The team is involved in national and international research efforts including a number of National Health and Medical Research Council (NHMRC) funded research projects to examine clinical practices that are important for improving clinical outcomes for people affected by cancer. The research team also works in partnership with the Cochrane Collaboration, Centre for Clinical Nursing, Queensland University of Technology (QUT), Griffith University, and The University of Queensland (UQ).

2013 will see the introduction of the Nursing Professorial Precinct in Cancer Care Services in collaboration with QUT. This precinct will assist in the utilisation of contemporary evidence to further inform sound clinical nursing practice.

Research staff

Name	Qualifications	Position	Interests/specialties
Raymond Chan	RN, BN, MAppSc (Research), FACN	Nurse Researcher	supportive cancer care, evidence-based practice, symptom management, palliative care, skin toxicity
Jennifer Mann	RN, BN, GradCertMed/ SurgNurs	Clinical Nurse (Research)	radiation-induced skin toxicity
Jessica Kelly	RN, BN	Clinical Nurse (Research)	central venous access devices, infection control

Supervised post-graduate students

Name	Current studies	Research topic
Chan R	PhD	Self-management associated with fatigue in patients with advanced cancer
Gavin N	PhD	Bacteraemia associated with total parenteral nutrition (TPN) feeding in hospitalised patients
Wong A	PhD	Using information technology to support evidence-based cancer nursing care
O'Dell E	Master of Advanced Practice	The journey of patients with relapsed haematological cancer
Flynn J	Master of Advanced Practice	Sterile vs aseptic non-touch technique for central venous catheters

Awards and achievements

Award	Event	Name
Editorial Board Member, Cancer Nursing: An International Journal for Cancer Care		Chan, R.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Rickard, C., Wallis, M., Young, J., Gowardman, J., Whitby, M., Chan, R. (AI)	The RSVP Trial: Replacement of Intravascular device administration sets after Standard Versus Prolonged use	NHMRC	\$1,555,305	2011-2014

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Mollee, P., Kennedy, G., Looke, D., Van Kulenburg, A., Geary, A.	Catheter-associated bloodstream infections in adults with cancer: A prospective randomised controlled trial	NHMRC/ Queensland Cancer Council	\$262,200.00	2012-2014
Chan, R., Keller, J., Cheuk, R., Tripcony, L., Blades, R., Keogh, S.	A double-blind randomised controlled trial of a natural oil-based emulsion containing allantoin versus aqueous cream for managing radiation-induced skin reactions in patients with cancer	Office of Health and Medical Research, Queensland Health	\$15,000	2012
Chan, R., Keller, J., Cheuk, R., Tripcony, L., Blades, R., Keogh, S.	A double-blind randomised controlled trial of a natural oil-based emulsion containing allantoin versus aqueous cream for managing radiation-induced skin reactions in patients with cancer	RBWH Foundation	\$60,000	2011-2012
Chan, R., Keller, J., Cheuk, R., Tripcony, L., Blades, R., Keogh, S.	A double-blind randomised controlled trial of a natural oil-based emulsion containing allantoin versus aqueous cream for managing radiation-induced skin reactions in patients with cancer	Cancer Nurses Society Australia	\$6,000	2012
Gavin, N., Rickard, C.	Bacteraemia associated with total parenteral nutrition (TPN) feeding in hospitalised patients	Centre of Research Excellence in Nursing, Griffith University	\$96,000	2012-2014

Publications

Chan R, Webster J, Marquart L. A Systematic Review: Orientation programs for new cancer patients and their carers. *International Journal of Nursing Studies*. 2012;49:1558-1567.

Chan R, Northfield S, Alexander A, Rickard C. Using the collaborative evidence-based practice model: a systematic review and uptake of chlorhexidine-impregnated sponge dressings in a tertiary cancer centre. *Australian Journal of Cancer Nursing*. 2012;13(2):10-15.

Chan R, Larsen E, Chan P. Re-examining the evidence in Radio-dermatitis Management Literature: An overview and critical appraisal of Systematic Reviews. *International Journal of Radiation Oncology Biology Physics*. 2012;84(3):e357-e362.

Chan R, Keller J, Cheuk R, Tripcony L, Blades R, Keogh S. A double-blind randomised controlled trial of a natural oil-based emulsion containing allantoin versus aqueous cream for managing radiation-induced skin reactions in patients with cancer. *Radiation Oncology*. 2012;7(121):1-7.

Chan R, Alexander A, Bransdon M, Webster J, Hughes B, Brown L, Graham T. Challenging the distal-to-proximal technique in the administration of anti-cancer therapies: a prospective cohort study. *Cancer Nursing*. 2012;35(5):E35-40.

Chan R. The two Cs to evidence based infusion nursing: Critical examination and Collaboration. *Journal of Infusion Nursing*. 2012;35(4):208-209.

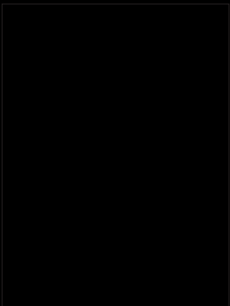
Chan R, Wong A. Two decades of exceptional achievements: does the evidence support nurses to favour Cochrane systematic reviews over other systematic reviews? *International Journal of Nursing Studies*. 2012;49(7): 773-774.

So W, Chan R, Chan D, Hughes B, Chair SY, Choi KC, Chan C. Quality of life among head and neck cancer survivors at one year after treatment- a systematic review. *European Journal of Cancer*. 2012;48(15):2391-2408.





Scott McMullen
Executive Director
Corporate Services



Overview

Corporate Services provides a diverse range of non-clinical support services that are critical components in the smooth and efficient operation of RBWH.

Corporate Services at RBWH are recognised throughout Queensland Health for a high level of professionalism and leading by example. This is evidenced by the requests we support to contribute to corporate initiatives in all Corporate Services areas.

Corporate Services provided more than 10.1 million occasions of service to support the RBWH clinical services lines in the 2011-2012 financial year.

Key departments

- » Clinical Resources and Assets
- » Engineering and Building Services
- » Information Technology Services
- » Strategy and Efficiency
- » Workplace Relations
- » Central Messenger Services
- » Lady Ramsay Early Learning and Education Centre
- » Records Office
- » Operational Support Services, including:
 - Administrative Support Management Unit
 - Food and Retail Services
 - Occupational Health and Safety
 - Patient Support Services
 - Security and Occupational Violence Prevention Services
 - Switchboard Services

Executive and directing staff

Scott McMullen
Executive Director, Corporate Services

Mohan Singh
Director, Engineering and Building Services

Lyn Mason
Director, Information Technology Services

Iris Frangos
Manager, Medical Technology and Assets

Adj. Prof. Geoffrey Hitchings
Director, Operational and Support Services

Mark Whelan
Director, Workplace Relations

Overview

Managing key professional transitions in the Health Sector

This study is an Australian Research Council (ARC)-funded project conducted by The University of Queensland (UQ) Business School. The study examines how employees integrate multiple, potentially conflicting identities over time at two critical transition points: the transition of new employees to their roles, and the transition of clinicians and others to leadership and management roles.

The study will run for three years. Data collection commenced in January 2012 through to August 2012. More than 750 surveys have been collected and more than 50 interviews conducted. Given the longitudinal design methodology employed in the study, preliminary data analysis did not commence until December 2012; at that point, sufficient longitudinal data would have been collected.

Development and evaluation of a model for assessment of clinical service improvements

This study aims to develop a model for objective analysis and prioritisation and an associated guide for the evaluation of existing and new services.

The project has reached the ethics application stage and data collection was commenced in October/November 2012.

Research staff

Name	Qualifications	Position	Interests/specialties
Scott McMullen	MHM, BA, BSocWk, Cert IV Workplace Assessor	Executive Director, Corporate Services	evidence-based patient care, trauma counselling, health services/system research
Mark Whelan	Cert IV Assessment and Workplace Training	Director, Workplace Relations	innovation, use of technology
Hannah Bloch	BLLB, BBus (in progress)	Manager, Workplace Relations	workforce management including trends and issues which impact employment
Adj. Prof. Geoffrey Hitchings	AssocDipAppSc (OHS), GradDipOHS, MHIthSc	Director, Operational Support Services	workforce planning, food service delivery, occupational violence, risk engineering, safety management

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
McMullen, S., Whelan, M., Bloch, H.	Managing professional transitions in the Health Sector	Australian Research Council	\$500,000	2012-2013
McMullen, S.	Development and evaluation of a model for assessment of clinical services improvements	Queensland University of Technology	\$45,000	2011-2014



Critical Care and Clinical Support Services



Assoc. Prof. Marianne Vonau
Acting Executive Director
Critical Care and Clinical
Support Services



Kerri McLeod
Nursing Director
Critical Care and Clinical
Support Services

Overview

Critical Care and Clinical Support Services undertakes critical research, including clinical trial and laboratory research.

We have a commitment to undergraduate and postgraduate teaching and research and have developed strong links with The University of Queensland (UQ) and Queensland University of Technology (QUT).

Critical Care and Clinical Support Services actively participates in nursing evidence-based practice activities and undertakes nursing research. The nursing staff of the service line are currently involved in a number of nursing research projects, including multidisciplinary research activities.

The staff of our service line consistently and critically analyse patients to ensure that effective and evidence-based practices are provided to all of our patients.

Key departments

- » Admissions and Trust Office
- » Call Centre
- » Centralised Specialist Outpatient Services
- » Department of Emergency Medicine
- » Department of Intensive Care Medicine
- » Herston Multimedia Unit
- » Hyperbaric Medicine Service
- » Private Practice Specialist Suite
- » Professor Tess Cramond Multidisciplinary Pain Centre

Executive and directing staff

Assoc. Prof. Marianne Vonau
Acting Executive Director, Critical Care and Clinical Support Services

Kerri McLeod
Nursing Director, Critical Care and Clinical Support Services

Prof. Alan O'Connor
Director, Emergency Medicine

Dr Robert Webb
Director, Hyperbaric Medicine

Prof. Jeffrey Lipman
Director, Intensive Care Medicine

Prof. Julia Fleming
Director, Professor Tess Cramond Multidisciplinary Pain Centre

Department of Emergency Medicine



Prof. Alan O'Connor
Director, Emergency Medicine

Overview

The Department of Emergency Medicine at RBWH has a diverse research programme. Research strengths include acute coronary syndrome, sepsis, trauma, patient flow and care of the elderly patient.

Research staff include one part-time Research Director, one full-time post-doctoral Research Officer, one half-time Research Fellow, three PhD candidates, two honours students and an expanding group of dedicated research nurses.

In 2012, the research team continued its success in publishing in high quality journals such as *Annals of Emergency Medicine* and the *Journal of the American College of Cardiology*.

The department has active research collaborations with The University of Queensland's Burns, Trauma and Critical Care Research Centre (BTCCRC), the School of Public Health at Queensland University of Technology (QUT), RBWH Departments of Cardiology and Intensive Care Medicine and Pathology Queensland.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Alan O'Connor	MBChB, MPH MHM FRACMA FACEM	Director, Emergency Medicine	medicial administration
Dr William Lukin	MBBS, FACEM	Deputy Director, Emergency Medicine	trauma, Hospital in the Nursing Home
Assoc. Prof. Kevin Chu	MBBS, MS, FACEM	Director, Emergency Medicine Research	diagnostic tests, research methodology
Assoc. Prof. Victoria Brazil	MBBS, MBA, FACEM	Staff Specialist	medical education
Prof. Anthony Brown	MBChB, FRCP, FRCS (ED), FACEM, FCEM	Chair, Emergency Medicine	medical editing, medical education acute coronary syndrome
Dr Catherine Hurn	MBBS, FACEM	Senior Staff Specialist	trauma, massive transfusion, TEG
Dr Philip Richardson	MBChB, LLB, FACEM	Staff Specialist	end-of-life issues, medical errors
Dr Louise Cullen	MBBS, FACEM	Staff Specialist	acute coronary syndrome
Dr Julian Williams	MBBS, FACEM	Staff Specialist	sepsis, ARISE trial (Queensland state coordinator)
Dr Peter Logan	MbChB, FACEM	Staff Specialist	soft tissue infections
Assoc. Prof. Jaimi Greenslade	BPsych (Hons), PhD	Research Fellow	psychology, statistics
Tracey Hawkins	BN, GradDipNursing (CritCare and Emerg)	Clinical Nurse (Research)	acute coronary syndrome
Nicole Larcombe	BN	Clinical Nurse (Research)	sepsis
Bronwyn Thomas	BN, BAppSci, BHealthSci, MPH	Clinical Nurse (Research)	sepsis
Dr Jessica Schluter	BN, PhD	Clinical Nurse (Research)	acute coronary syndrome
Shanen O'Kane	BN, GradDip Nursing	Clinical Nurse (Research)	acute coronary syndrome
Dr Shane Martin	BSc, MBBS	Research Registrar	
Carol Readman	DipHe Nursing Studies	Clinical Nurse Consultant	nursing research
Sally Jones	BN, Grad Cert (Oncology)	Assistant Nursing Director	nursing research

Supervised post-graduate students

Name	Current studies	Research topic
Cullen, L.	PhD	Acute coronary syndrome
Greenslade, J.	MS (Statistics)	Statistics
Lukin, W.	PhD	Hospital in the Nursing Home (HINH)
Williams, J.	PhD	Sepsis
Flaws, D.	Masters (Research)	Acute coronary syndrome

Awards and achievements

Award	Event	Name
Best Innovation Poster	2012 RBWH Healthcare Symposium	Cullen, L.
Best Abstract Presentation	2012 RBWH Healthcare Symposium	Bilesky, J.
Best Research Abstract Presentation	Sim Health 2012	Brazil, V.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Cullen, L.	Noel Stephenson Research Fellowship	Queensland Emergency Medicine Research Foundation (QEMRF)	\$225,000	2012-2014
Cullen, L., Than, M., Parsonage, W., Greenslade, J.	Early hs-TnI for rapid risk stratification of chest pain patients presenting to the emergency department	Abbott Diagnostics	\$92,237	2012-2013
Cullen L., Parsonage, W., Greenslade, J.	Two-hour diagnostic algorithm for high-sensitivity cardiac Troponin T in patients with suspected acute myocardial infarction: An international derivation and validation study	Roche	\$29,407	2012-2013
Cullen L., Parsonage, W., Greenslade, J.	Investigation of faster triage of chest pain patients using Siemens dimension EXL TnI	Siemens	\$15,000	2012-2013
Williams, J., Greenslade, J., Brown, S., Stone, S., Lukin, B.	The crystalloid versus albumin in the resuscitation of emergency department patients with septic shock (CARESS) trial inflammatory marker pilot study	QEMRF	\$41,270	2012-2013
Martin, S., Chu, K., Greenslade, J.	Single palmar injection versus double injection dorsal digital nerve block for finger injuries in the emergency department: A randomised clinical trial	QEMRF	\$8,712	2012-2013

Publications

Aldous SJ, Richards M, Cullen L, et al. Diagnostic and prognostic utility of early measurement with high-sensitivity troponin T assay in patients presenting with chest pain. *Canadian Medical Association Journal*. 2012;184(5):260-268.

Aldous SJ, Richards AM, Cullen L, Than MP. High-sensitivity cardiac troponin assays: Change is important. *Clinical Chemistry*. 2012;57: 1154-1160.

Aldous SJ, Richards AM, Cullen L, Than MP. Use of early dynamic change in high sensitivity cardiac troponin T in the investigation for acute myocardial infarction in the emergency department. *Clinical Chemistry*. 2012;57(8):1154-1160.

Aldous SJ, Richards AM, Cullen L, Than MP. A new accelerated protocol may allow early discharge of low risk patients presenting to the Emergency Department with chest pain. *Academic Emergency Medicine*. 2012;19(5):510-516.

Aldous SJ, Richards AM, Cullen L, Than MP. Letters to the Editor: In Reply *Clinical Chemistry*. 2012;58:313-314.

Aldous SJ, Richards M, Cullen L, Troughton R, Than M. A two-hour thrombolysis in myocardial infarction score outperforms other risk stratification tools in patients presenting with possible acute coronary syndromes: Comparison of chest pain risk stratification tools. *American Heart Journal*. 2012;164(4):516-23.

Publications

Brazil V, Grobler C, Greenslade J, Burke J. Comparison of intubation performance by junior emergency department doctors using gum elastic bougie versus stylet reinforced endotracheal tube insertion techniques. *Emergency Medicine Australasia*. 2012;24:194-200.

Cullen L, Parsonage WA, Greenslade J, Lamanna A, Hammett CJ, Than M, Ungerer JPJ, Chu K, O'Kane S, Brown AFT. Comparison of early biomarker strategies with the heart foundation of Australia/Cardiac Society of Australia and New Zealand guidelines for risk stratification of ED patients with chest pain. *Emergency Medicine Australasia*. 2012;24:595-603.

Greenslade J, Cullen L, Parsonage W, Reid CM, Body R, Richards M, Hawkins T, Lim SH, Than M. Examining the signs and symptoms experienced by individuals with suspected Acute Coronary Syndrome in the Asia-Pacific region: A prospective observational study. *Annals of Emergency Medicine*. 2012;60:777-785.

Hou X-Y, Zhao J, Chu K. Impact of a government triple zero awareness campaign on emergency department patient characteristics. *Emergency Medicine Australasia*. 2012;24:393-400.

Lukin W, Douglas C, O'Connor A. Palliative care in the emergency department: an oxymoron or just good medicine? *Emergency Medicine Australasia*. 2012;24(1):102-104.

Scott, I, Cullen L, Tate, J and Parsonage, W. Highly sensitive troponin assays: A two-edged sword? *Medical Journal of Australia*. 2012;197(6):320-323.

Than M, Cullen L, Aldous S, Parsonage WA, Reid CM, Greenslade J, Flaws D, Hammett CJ, Beam DM, Ardagh MW, Troughton R, Brown AFT, George P, Kline JA, Peacock F, Maisel AS, Richards M. A two-hour accelerated diagnostic protocol to assess patients with chest pain symptoms using contemporary Troponins as the only biomarker (ADAPT). *Journal of the American College of Cardiology*. 2012;59(23):2091-2098.

Department of Intensive Care Medicine



Prof. Jeffrey Lipman
Director, Intensive
Care Medicine

Overview

Once again, the Department of Intensive Care Medicine has had a hugely successful year. We have published 78 peer-reviewed articles, including articles in the New England Journal of Medicine, Lancet, British Medical Journal, American Journal of Respiratory and Critical Care Medicine, Clinical Infectious Diseases, Critical Care Medicine, Intensive Care Medicine and Critical Care.

We have also been very successful in our grant applications. Five of these were NHMRC Project Grants. Professor Michael Reade is on two of the project grants as well as being part of a successful NHMRC Centre for Clinical Research Excellence. Dr Anthony Holley is also an investigator on this latter project, so congratulations to both.

Others who were successful in this year's NHMRC granting process were Dr Jenny Paratz (project grant), Dr John Gowardman (project grant) and Dr Jason Roberts (project grant, plus a four-year career development fellowship).

We now managerially run five multi-centred trials. An important feature of this process has been to use new technology. Our research staff are initiating new trial sites via the internet and webcasting, thereby eliminating the need for costly travel and face-to-face meetings. This has been a pleasing and successful development.

Special mention goes to Amanda Simmons for her audit work on clinical handovers, which was presented at the 2012 ANZICS/ACCCN Intensive Care Annual Scientific Meeting in Adelaide, and to Pierre Clement, who has been invited to present some of his work on our Clinical Information System in 2013 at a national conference.

In essence, all this should eventually lead to improved patient care. My hearty thanks to all Department of Intensive Care Medicine staff. The fact the the department functions well at this time, and at all times, is a testament to every single staff member of this multidisciplinary unit.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Jeffrey Lipman	MBBCh, DA (SA), FFA (SA), FFA (Crit Care), FCICM, MD	Director, Intensive Care Medicine	management in intensive care, resuscitation of burns and pharmacokinetics of antibiotic dosage
Assoc. Prof. Robert Boots	MBBS (Hons), FRACP, FCICM, PhD, GradDipClinEpi, MMedSci, MHealthAdmin, IS	Deputy Director, Intensive Care Medicine	clinical epidemiology, management of burns and prevention of ventilator associated pneumonia
Prof. Michael Reade	MBBS, BSc, DPhil, MPH, PGCertAME, DIMCRCSEd, DMCC, FHEA, FCCP, FANZCA, FCICM	Professor, Military Medicine; Staff Intensivist	management of traumatic brain injury, coagulopathy, inflammation, early identification of sepsis, design of trauma systems
Dr Jason Roberts	BAppSc, BPharm (Hons I), PhD	Clinical pharmacist	pharmacokinetic models for various antibiotics in critically-ill patients with sepsis using microdialysis, therapeutic drug monitoring
Dr Joel Dulhunty	BSc (Hons), MTH, MBBS, PhD	Research Fellow	epidemiology of burn injury and severe sepsis, study design and methodology
Dr Jeremy Cohen	MBBS, BSc, MRCP, FRCA, FCICM, PhD	Staff Intensivist	adrenal function in critical illness
Dr John Gowardman	BSc, BHB, MBChB, FRACP, FCICM	Senior Staff Intensivist	intra-vascular device associated infections, Biofilm formation on vascular devices, head injury, weaning and extubation from mechanical ventilation
Dr Andrew Udy	BHB, MBChB, PGCert (AME), FCICM	Staff Intensivist	impact of augmented renal clearance on the prescription of antibiotics, acute kidney injury, microcirculation, severe sepsis, septic shock and measurement techniques in ICU
Dr Judith Bellapart	MD, ESICM, FCICM	Staff Intensivist	cerebral blood flow haemodynamics in patients on intra-aortic counterpulsation balloon pumps and ventricular assist devices, endothelin levels in subarachnoid hemorrhage vasospasm, anaemia in head injury
Dr Anthony Holley	BSc, MBBCh, DipPaeds, DipDHM, FACEM, FCICM	Senior Staff Intensivist	identifying alterations in microcirculation during shock using side stream dark field imaging

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Alex Douglas	BMedSc, MBBS, FANZCA, FCICM	Staff Intensivist	current practice and education in anaesthesia and intensive care medicine, pharmacokinetics of antibiotics used in abdominal aortic aneurism surgery
Dr Steve O'Donoghue	MBChB, FANZCA, FCICM	Staff Intensivist	microcirculation in shocked critically ill patients during resuscitation and prevention of ventilator associated pneumonia
Dr Neil Widdicombe	MBBS, FRCA (UK), FCICM	Senior Staff Intensivist, Hospital Medical Director, Organ Donation	end-of-life care and organ donation, application of telemedicine in critical care, critical care retrieval and transport
Dr Jayesh Dhanani	MBBS, MD, FCICM	Staff Intensivist	antimicrobial therapy, lung infections, inhaled/aerosol therapy
Dr Rajeev Hegde	MBBS, MD, EDICM, FCICM	Senior Staff Intensivist	inhalation injury
Dr George Pang	MBBS, FANZCA, FCICM	Staff Intensivist	lipid rescue from anaesthetic overdose
Dr Jennifer Paratz	MPhty, FACP, PhD, GradCertEd (Medical and Health Sciences)	Consultant Physiotherapist, Senior Research fellow	management and outcome of critically ill and burns patients, myocardial dysfunction, exercise and metabolism, diagnosis of sepsis in burns patients
Hiran Bandeshe	BSc, BEng	Database Manager	data mining, ICU database management
Therese Starr	GradCertCritCare, GradDipHealthProm, NNC	Research Coordinator	certified clinical research coordinator involved in major clinical trials
Melissa Lassig-Smith	DipAppSc (Nursing), GradDip (Adv Nursing), GradDipCritCare, MNursing (CritCare)	Research Coordinator	involvement in all aspects of studies in intensive care from initial proposal to completion
Janine Stuart	BNurs	Research Coordinator	involved with all research currently being completed in ICU, writing proposals, obtaining ethics approvals, writing grants, data collection and publishing research articles
Renae Deans	BNurs, CertCritCare	Research Coordinator	clinical research coordinator involved in the project management of major clinical trials
Paul Jarrett	Dip (HE) Nurs	Research Coordinator	involved in research studies taking place within ICU, from proposal to completion as well as communication and liaison with study sponsors and other coordinators
Rachael Dunlop	BNurs, GradCert (CritCare)	Research Coordinator	involved in research studies taking place within ICU and QUT

Supervised post-graduate students

Name	Current studies	Research topic
Winzer, B.	PhD	Can exercise alter oesophageal cancer risk factors?
Stockton, K.	PhD	Fatigue in systemic lupus erythematosus: Exploration of some novel factors
Al-Balushi, R.	PhD	Effect of intravenous glutamine supplementation in trauma patients receiving enteral nutrition: A prospective, double-blind, randomised, placebo-controlled clinical trial
Kayambu, G.	PhD	Improving critical illness outcomes with early rehabilitation
Bissett, B.	PhD	Inspiratory muscle training for ventilated patients
Walsh, J.	PhD	Predictive factors of success in pulmonary rehabilitation
Caruana, L.	MPhil	Electrical impedance tomography and positioning
Wadsworth, B.	MPhil	Abdominal bracing in spinal patients

Supervised post-graduate students

Name	Current studies	Research topic
Baldwin, C.	PhD	Muscle weakness in intensive care
Patel, B.	MPhil	Characteristics of blood stream infections in burn injury patients: A ten year retrospective study at RBWH
Adnan, S.	PhD	Pharmacokinetics of commonly prescribed antibiotic in critically ill patients with indwelling surgical drains and with multi-drug resistant Acinetobacter spp infections
Williams, J.	PhD	Patients with community-acquired infection presenting at the ED: Identifying factors early during the course of infection that may predict a poor outcome
Udy, A.	PhD	Mechanisms and clinical implications of augmented renal clearance (ARC) on beta-lactam prescription in the critically ill
Gray, P.	PhD	Phantom Skin Pain: The neuropathic pain of burn injury – Aetiology, assessment and treatment.
Varghese, J.	PhD	Dose optimisation of antibiotics in different forms of renal replacement therapy
Kaur, S.	PhD	Improving drug utilisation in Australian aged care facilities
Mawbey, I.	MCP	Does a vancomycin prescribing protocol reduce the prescription of linezolid for patients with infections caused by multi-resistant Gram positive organisms such as methicillin-resistant Staphylococcus aureus?
Wong, G.	MPhil	BeTM Study: A multi-centre study to evaluate the outcome of empiric dosing of beta-lactam antibiotics in reaching pharmacodynamic targets and utility of therapeutic drug monitoring programme in critically ill patients
Hanrahan, T.	MPhil	Vancomycin nephrotoxicity in critically ill patients: Fact or fiction?
Sinnollareddy, M.	PhD	Using pharmacokinetics and pharmacodynamics to optimise dosing of antifungal agents in critically ill patients
Sime, F.	PhD	Does beta-lactam pharmacokinetic variability in critically ill patients justify therapeutic drug monitoring?
Jamal, J-A.	PhD	Improving antibiotic dosing in special situations in the ICU: burns, renal replacement therapy and extracorporeal membrane oxygenation
Abdul-Aziz, MH.	PhD	Continuous infusion vs. bolus dosing: implications for beta-lactam antibiotics
Parker-Scott, S.	PhD	Revitalising an old drug: saving critically ill patients with resistant infections with fosfomycin
Economou, C.	PhD	The pharmacokinetics of vancomycin, meropenem and piperacillin-tazobactam in critically ill patients undergoing sustained low-efficiency dialysis (SLED)
Bellapart, J.	PhD	Response of cerebral microcirculation to anemia, hypercapnia and hypoxemia in head injury using experimental ovine models
Ronsmans, W.	MPhil	Trauma transfer study: The tyranny of distance

Awards and achievements

Award	Event	Name
Winner of second best abstract award: Coyer, F., Stotts, N., Blackman, V., Hyun Jung, K., Dunlop, R., Aldrich, K.M., A prospective window into device-related pressure ulcers in critical care: An international perspective	SAWC Spring Conference Atlanta, Georgia USA, April 2012	Dunlop, R.
Australian Military Medicine Association Patron's Prize (awarded by the Association's Patron for the best paper written by a Member of the Association published in a peer review journal during each financial year)		Holley, A.
Afghanistan Medal 2012		Holley, A.
North Atlantic Treaty Organisation (NATO) Medal with Clasp ISAF 2012		Holley, A.
Australian Clinical Pharmacy Award, Society of Hospital Pharmacists of Australia		Roberts, J.A.
David Neville Prize for 'Therapeutic drug monitoring of beta-lactam antibiotics in burns patients: A one-year prospective study'	Royal Australian College of Surgeons Annual Scientific Meeting. North Stradbroke Island, August 2012	Roberts, J.A.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Ho, K.M., Corcoran, T., Lipman, J., Roberts, J., Barden, A., Mori, T.	Determinants of urinary output response to intravenous frusemide in patients with acute kidney injury	ANZCA 13/004	\$38,300	2012-2013
Reade, M., Holley, A., Irving, D., Marks, D., Johnson, L., Fraser, J., Bellomo, R., Gattas, D.	Evaluation of cryopreserved platelets for the treatment of perioperative haemorrhage	ANZCA AEG 13/002	\$85,646	2012-2013
Cooper, J.D., Phillips, L., Bellomo, R., Cameron, P., Reade, M., Isbister, J., French, C., Myles, P., Webb, S., McNeil, J.	Centre of research excellence for patient blood management in critical illness and trauma	NHMRC CRE APP1040971	\$2,498,407	2012-2016
Brauer, S., Kuys, S., Ada, L., Kuys, S., Paratz, J.	The stroke IMPACT trial: Improving physical activity via treadmill training	OHMR	\$250,000	2012-2016
Lipman, J., Roberts, J., Paratz, J., Paterson, D., Fraser, J.	Pharmacokinetic studies in critically ill patients	UQ NHMRC Equipment and Infrastructure	\$310,000	2012
Lipman, J.	BLING II	Baxter Unrestricted Grant	\$40,000	2012-2013
Rickard, C., Fraser, J., Webster, J., Marshall, A., Young, J., Playford, E.G., McMillan, D., McGrail, M., Gowardman, J., Thom, O.	The SAVE trial – Ecurig all intravenous devices effectively in hospitals: A randomised controlled trial	NHMRC APP1041910	\$944,798.21	2012-2014
Staib, A., Ashton, K., Fraser, J.F., Fung, Y.L., Shekar, K., Chew, M., Reade, M., Tung, J.P., McDonald, C.	Does age of the transfused blood matter in acutely ill patients with trauma and infection?	Queensland Emergency Medicine Research Foundation (QEMRF)	\$200,000	2012-2013
Economou, C.	The pharmacokinetics of vancomycin, meropenem and piperacillin-tazobactam in critically ill patients undergoing sustained low-efficiency dialysis (SLED)	RBWH Scholarship	\$40,000	2012-2014
N/A	ICU research coordinator funding	RBWH Private Practice Trust Fund	\$105,897	2012 - 2013

Publications

Abbott IJ, Roberts JA. Infusional β -lactam antibiotics in febrile neutropenia: has the time come? *Curr Opin Infect Dis.* 2012;Dec;25(6):619-25.

Abdul-Aziz MH, Dulhunty JM, Bellomo R, Lipman J, Roberts JA. Continuous beta-lactam infusion in critically ill patients: The clinical evidence. *Ann Intensive Care.* 2012;Aug 16;2(1):37.

Adnan S, Paterson DL, Lipman J, Kumar S, Li J, Rudd M, Roberts JA. Pharmacokinetics of beta-lactam antibiotics in patients with intra-abdominal disease: a structured review. *Surg Infect (Larchmt).* 2012;Feb;13(1):9-17.

Agarwal S, O'Donoghue S, Gowardman J, Kennedy G, Bandeshe H, Boots RJ. Intensive care unit experience of hematopoietic stem cell transplant patients. *Intern Med J.* 2012;Jul;42(7):748-54.

Baldwin CE, Paratz JD, Bersten AD. Body composition analysis in critically ill survivors: a comparison of bioelectrical impedance spectroscopy devices. *JPEN J Parenter Enteral Nutr.* 2012;May;36(3):306-15.

Bhaskar B, Dulhunty J, Mullany DV, Fraser JF. Impact of blood product transfusion on short and long-term survival after cardiac surgery: More evidence. *Ann Thorac Surg.* 2012;Aug;94(2):460-7.

Bellapart J, Boots R. Potential use of melatonin in sleep and delirium in the critically ill. *Br J Anaesth.* 2012;Apr;108(4):572-80.

Bellapart J, Boots R, Fraser J. Physiopathology of anemia and transfusion thresholds in isolated head injury. *J Trauma Acute Care Surg.* 2012;Oct;73(4):997-1005.

Bissett B, Leditschke IA, Paratz JD, Boots RJ. Respiratory dysfunction in ventilated patients: Can inspiratory muscle training help? *Anaesth Intensive Care.* 2012;Mar;40(2):236-46.

Publications

- Bissett BM, Leditschke IA, Paratz JD, Boots RJ. Protocol: Inspiratory muscle training for promoting recovery and outcomes in ventilated patients (IMPROVE): A randomised controlled trial. *BMJ Open*. 2012;Mar 2;2(2):e000813. Print 2012.
- Briscoe SE, McWhinney BC, Lipman J, Roberts JA, Ungerer JPJ. A method for determining the free (unbound) concentration of ten beta-lactam antibiotics in human plasma using high performance liquid chromatography with ultraviolet detection. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2012;Oct 15;907:178-84.
- Boots RJ, Singh SJ, Lipman J. The tyranny of distance: telemedicine for the critically ill in rural Australia. *Anaesth Intensive Care*. 2012;Sep;40(5):871-4.
- Carlier M, Stove V, Roberts JA, Van de Velde E, De Waele JJ, Verstraete AG. Quantification of seven β -lactam antibiotics and two β -lactamase inhibitors in human plasma using a validated UPLC-MS/MS method. *Int J Antimicrob Agents*. 2012;Nov;40(5):416-22.
- Cohen J, Lassig-Smith M, Deans RV, Pretorius CJ, Ungerer JP, Tan T, Jones M, Venkatesh B. Serial changes in plasma total cortisol, plasma free cortisol, and tissue cortisol activity in patients with septic shock: an observational study. *Shock*. 2012;Jan;37(1):28-33.
- Cohen J, Pretorius C, Venkatesh B. Dismissal of the utility of free cortisol measurement is premature. *Intensive Care Med*. 2012;Apr;38(4):718; author reply 719-20.
- der Merwe FV, Wallis S, Udy A. Understanding the impact of critical illness on drug pharmacokinetics - scientifically robust study design. *J Clin Toxicol*. 2012;S4:002. doi:10.4172/2161-0495.S4-002.
- Dhanani J, Roberts JA, Lipman J. Antibiotic Therapy of Pneumonia in Critical Care. *Curr Resp Med Rev*. 2012;8:228-238.
- Dulhunty JM, Suhrbier A, Macaulay GA, Brett JC, van Straaten AV, Brereton IM, Farmer JF. Guide-wire fragment embolisation in paediatric peripherally inserted central catheters. *Med J Aust*. 2012;Mar 5;196(4):250-5.
- Eastwood GM, Peck L, Bellomo R, Baldwin I, Reade MC. A questionnaire survey of critical care nurses' attitudes to delirium assessment before and after introduction of the CAM-ICU. *Aust Crit Care*. 2012;Aug;25(3):162-9.
- Eastwood GM, Peck L, Bellomo R, Baldwin I, Reade MC. Delirium diagnosis: The importance of communication. *Aust Crit Care*. 2012;Jun;25:153-4.
- Eastwood GM, Peck L, Young H, Bailey M, Reade MC, Baldwin I, Bellomo R. Haemodynamic impact of a slower pump speed at start of continuous renal replacement therapy in critically ill adults with acute kidney injury: a prospective before-and-after study. *Blood Purif*. 2012;33(1-3):52-8.
- Eastwood GM, Reade MC, Peck L, Baldwin I, Considine J, Bellomo R. Critical care nurses' opinion and self-reported practice of oxygen therapy: a survey. *Aust Crit Care*. 2012 Feb;25(1):23-30.
- Fraser JF, Shekar K, Diab S, Dunster K, Foley SR, McDonald CI, Passmore M, Simonova G, Roberts JA, Platts DG, Mullany DV, Fung YL. ECMO – the clinician's view. *ISBT Science Series*. 2012;7:82–88.
- Gattas DJ, Dan A, Myburgh J, Billot L, Lo S, Finfer S, Myburgh J, Harland J, Bellomo R, Cass A, Finfer S, Gattas D, Glass P, Lipman J, Liu B, McArthur C, McGuinness S, Rajbhandhari D, Taylor C, Webb S.; CHEST Management Committee. Fluid resuscitation with 6 per cent hydroxyethyl starch (130/0.4) in acutely ill patients: an updated systematic review and meta-analysis. *Anesth Analg*. 2012 Jan;114(1):159-69.
- Ginn AN, Wiklendt AM, Gidding HF, George N, O'Driscoll JS, Partridge SR, O'Toole BI, Perri RA, Faoagali J, Gallagher JE, Lipman J, Iredell JR. The ecology of antibiotic use in the ICU: homogeneous prescribing of cefepime but not tazocin selects for antibiotic resistant infection. *PLoS One*. 2012;7(6):e38719.
- Gowardman, JR. Comparison of Oligon catheters and chlorhexidine-impregnated sponges with standard catheters for prevention of catheter associated colonisation and infection: one size does not fit all. *Crit Care Med*. 2012 Feb;40(2):663-5.
- Grewal JP, Singh JS, Lipman J. Methanol: don't forget the ethanol. *Anaesth Intensive Care*. 2012 May;40(3):560-1.
- Gruen RL, Reade MC. Administer tranexamic acid early to injured patients at risk of substantial bleeding. *BMJ*. 2012 Nov 19;345:e7133.
- Holley A, Lukin W, Paratz J, Hawkins T, Boots R, Lipman J. Review article: Part one: Goal-directed resuscitation - which goals? Haemodynamic targets. *Emerg Med Australas* 2012 Feb;24(1):14-22. Erratum in: *Emerg Med Australas*. 2012 Jun;24(3):352.
- Holley A, Lukin W, Paratz J, Hawkins T, Boots R, Lipman J. Review article: Part two: Goal-directed resuscitation - which goals? Perfusion targets. *Emerg Med Australas* 2012 Apr;24(2):127-35.
- Holley AD, Weber DJ, Reade MC. A battlefield occupational risk not to be ignored. *Med J Aust*. 2012 Sep 17;197(6):331.
- Jamal JA, Economou CJ, Lipman J, Roberts JA. Improving antibiotic dosing in special situations in the ICU: burns, renal replacement therapy and extracorporeal membrane oxygenation. *Curr Opin Crit Care*. 2012 Oct;18(5):460-71.
- Kaur S, Roberts JA, Roberts MS. Evaluation of medication-related problems in medication reviews: a comparative perspective. *Ann Pharmacother*. 2012 Jul-Aug;46(7-8):972-82.
- Kumar R, Shekar K, Widdicombe N, Fraser JF. Donation after cardiac death in Queensland: review of the pilot project. *Anaesth Intensive Care*. 2012 May;40(3):517-22.
- Li J, Udy AA, Kirkpatrick CM, Lipman J, Roberts JA. Improving vancomycin prescription in critical illness through a drug use evaluation process: a weight-based dosing intervention study. *Int J Antimicrob Agents*. 2012 Jan;39(1):69-72.

Publications

- McGahan M, Kucharski G, Coyer F. Nurse staffing levels and the incidence of mortality and morbidity in the adult intensive care unit: A literature review. *Aust Crit Care*. 2012 May;25(2):64-77. Winner ACCCN Best Nursing Review Paper 2011 sponsored by Elsevier.
- McGloughlin SA, Udy A, O'Donoghue S, Bandeshe H, Gowardman JR. Therapeutic hypothermia following out-of-hospital cardiac arrest (OHCA): an audit of compliance at a large Australian hospital. *Anaesth Intensive Care*. 2012 Sep;40(5):844-9.
- Mohd Hafiz AA, Staatz CE, Kirkpatrick CM, Lipman J, Roberts JA. Continuous infusion vs. bolus dosing: implications for beta-lactam antibiotics. *Minerva Anesthesiol*. 2012 Jan;78(1):94-104.
- Myburgh JA, Finfer S, Bellomo R, Billot L, Cass A, Gattas D, Glass P, Lipman J, Liu B, McArthur C, McGuinness S, Rajbhandari D, Taylor CB, Webb SA; CHEST Investigators; Australian and New Zealand Intensive Care Society Clinical Trials Group. Hydroxyethyl starch or saline for fluid resuscitation in intensive care. *N Engl J Med*. 2012 Nov 15;367(20):1901-11.
- Myburgh J, Li Q, Heritier S, Dan A, Glass P; Crystalloid Versus Hydroxyethyl Starch Trial (CHEST) Management Committee (Lipman J). Statistical analysis plan for the Crystalloid Versus Hydroxyethyl Starch Trial (CHEST). *Crit Care Resusc*. 2012 Mar;14(1):44-52.
- Townell NJ, Munchhof WJ, Nimmo G, Bannan A, Holley A, Daniel A, Bennett C, Coulter C, Looke DF. Community-associated methicillin-resistant *Staphylococcus aureus* endocarditis 'down under': case series and literature review. *Scand J Infect Dis*. 2012 Jul;44(7):536-40.
- Ostrowski J, Paterson DL, Lipman J, Udy AA. Blood culture collection in patients with acute kidney injury receiving renal replacement therapy: an observational study. *Anaesth Intensive Care*. 2012 Sep;40(5):813-9.
- Paratz JD, Stockton K, Plaza A, Muller M, Boots RJ. Intensive exercise after thermal injury improves physical, functional, and psychological outcomes. *J Trauma Acute Care Surg*. 2012 Jul;73(1):186-94.
- Patel BM, Paratz JD, Mallett A, Lipman J, Rudd M, Muller MJ, Paterson DL, Roberts JA. Characteristics of bloodstream infections in burn patients: An 11-year retrospective study. *Burns*. 2012 Aug;38(5):685-90.
- Patel BM, Paratz J, See NC, Muller MJ, Rudd M, Paterson D, Briscoe SE, Ungerer J, McWhinney BC, Lipman J, Roberts JA. Therapeutic drug monitoring of beta-lactam antibiotics in burns patients - a one year prospective study. *Ther Drug Monit*. 2012 Apr;34(2):160-4.
- Ranieri VM, Thompson BT, Barie PS, Dhainaut JF, Douglas IS, Finfer S, G'rdlund B, Marshall JC, Rhodes A, Artigas A, Payen D, Tenhunen J, Al-Khalidi HR, Thompson V, Janes J, Macias WL, Vangerow B, Williams MD; PROWESS-SHOCK Study Group (Reade MC). Drotrecogin alfa (activated) in adults with septic shock. *N Engl J Med*. 2012 May 31;366(22):2055-64.
- Reade MC, Aitken LM. The problem of definitions in measuring and managing ICU cognitive function. *Crit Care Resusc*. 2012 Sep; 14(3): 236-243.
- Reade MC, Davies SR, Morley PT, Dennett J, Jacobs IC; Australian Resuscitation Council. Review article: Management of cyanide poisoning. *Emerg Med Australas*. 2012 Jun;24(3):225-38.
- Reade MC, Eastwood GM, Peck L, Baldwin I. Diagnosis of delirium: importance of context and duration of observation. *Crit Care Resusc*. 2012;14(1):91-92. Letter.
- Reade MC. Delirium diagnosis: what you do with the information matters most. *Am J Crit Care*. 2012 May;21(3):151-2; author reply 152-4, 154-5.
- Rickard CM, Webster J, Wallis MC, Marsh N, McGrail MR, French V, Foster L, Gallagher P, Gowardman JR, Zhang L, McClymont A, Whitby M. Routine versus clinically indicated replacement of peripheral intravenous catheters: A randomised controlled equivalence trial. *Lancet*. 2012 Sep 22;380(9847):1066-74.
- Reade MC. The largest ever trial demonstrating effectiveness of intensive care unit delirium prophylaxis - we must know more! *Crit Care Med*. 2012 Aug;40(8):2540.
- Roberts DM, Roberts JA, Roberts MS, Liu X, Nair P, Cole L, Lipman J, Bellomo R; RENAL Replacement Therapy Study Investigators. Variability of antibiotic concentrations in critically ill patients receiving continuous renal replacement therapy: A multicentre pharmacokinetic study. *Crit Care Med*. 2012 May;40(5):1523-8.
- Roberts JA. Australian Clinical Pharmacy Award Oration. *J Pharm Pract Res*. 2012;42(4):298-300.
- Roberts JA, De Waele JJ, Dimopoulos G, Koulenti D, Martin C, Montravers P, Rello J, Rhodes A, Starr T, Wallis SC, Lipman J. DALI: Defining Antibiotic Levels in Intensive care unit patients: A multi-centre point of prevalence study to determine whether contemporary antibiotic dosing for critically ill patients is therapeutic. *BMC Infect Dis*. 2012 Jul 6;12(1):152.
- Roberts JA, Joynt GM, Choi GY, Gomersall CD, Lipman J. How to optimise antimicrobial prescriptions in the Intensive Care Unit: Principles of individualised dosing using pharmacokinetics and pharmacodynamics. *Int J Antimicrob Agents*. 2012 Mar;39(3):187-92.
- Roberts JA, Lipman J. Editorial commentary: Closing the loop - a colistin clinical study to confirm dosing recommendations from PK/PD modeling. *Clin Infect Dis*. 2012 Jun;54(12):1727-9.
- Roberts JA, Norris R, Paterson DL, Martin JH. Therapeutic drug monitoring of antimicrobials. *Br J Clin Pharmacol*. 2012 Jan;73(1):27-36.
- Shehabi Y, Bellomo R, Reade MC, Bailey M, Bass F, Howe B, McArthur C, Seppelt IM, Webb S, Weisbrodt L; Sedation Practice in Intensive Care Evaluation (SPICE) Study Investigators and the ANZICS Clinical Trials Group. Early intensive care sedation predicts long-term mortality in ventilated critically ill patients. *Am J Respir Crit Care Med*. 2012 Oct 15;186(8):724-31.

Publications

Shekar K, Fraser JF, Smith MT, Roberts JA. Pharmacokinetic changes in patients receiving extracorporeal membrane oxygenation. *J Crit Care*. 2012 Dec;27(6):741.

Shekar K, Fung YL, Diab S, Mullany DV, McDonald CI, Dunster KR, Fisquet S, Platts DG, Stewart D, Wallis SC, Smith MT, Roberts JA, Fraser JF. Development of simulated and ovine models of extracorporeal life support to improve understanding of circuit-host interactions. *Crit Care Resus*. 2012 Jun;14(2):105-11.

Shekar K, Roberts JA, McDonald CI, Fisquet S, Barnett AG, Mullany DV, Ghassabian S, Wallis SC, Fung YL, Smith MT, Fraser JF. Sequestration of drugs in the circuit may lead to therapeutic failure during extracorporeal membrane oxygenation. *Crit Care*. 2012 Oct 15;16(5):R194.

Shekar K, Roberts JA, Mullany DV, Corley A, Fisquet S, Bull TN, Barnett AG, Fraser JF. Increased sedation requirements in patients receiving extracorporeal membrane oxygenation for respiratory and cardiorespiratory failure. *Anaesth Intensive Care*. 2012 Jul;40(4):648-55.

Shekar K, Roberts JA, Welch S, Buscher H, Rudham S, Burrows F, Ghassabian S, Wallis SC, Levkovich B, Pellegrino V, McGuinness S, Parke R, Barnett AG, Walsham J, Mullany DV, Smith MT, Fraser JF. ASAP ECMO: Antibiotic, sedative and analgesic pharmacokinetics during extracorporeal membrane oxygenation: A multi-centre study to optimise drug therapy during ECMO. *BMC Anesthesiol*. 2012 Nov 28;12(1):29.

Sime FB, Roberts MS, Peake SL, Lipman J, Roberts JA. Does beta-lactam pharmacokinetic variability in critically ill patients justify therapeutic drug monitoring? A Systematic Review. *Ann Intensive Care*. 2012 Jul 28;2(1):35.

Sinnollareddy M, Peake SL, Roberts MS, Lipman J, Roberts JA. Using pharmacokinetics and pharmacodynamics to optimise dosing of antifungal agents in critically ill patients: A systematic review. *Int J Antimicrob Agents*. 2012 Jan;39(1):1-10.

Sinnollareddy MG, Roberts MS, Lipman J, Roberts JA. β -lactam pharmacokinetics and pharmacodynamics in critically ill patients and strategies for dose optimisation: a structured review. *Clin Exp Pharmacol Physiol*. 2012 Jun;39(6):489-96.

Smith NL, Freebairn R, Park M, Wallis SC, Roberts JA, Lipman J. The need for therapeutic drug monitoring when using cefepime in CRRT: Seizures associated with cefepime. *Crit Care Resus*. 2012;14(4):312-5.

Stockton KA, Davis MJ, Brown MG, Boots R, Paratz JD. Physiological responses to maximal exercise testing and the modified incremental shuttle walk test in adults after thermal injury: A pilot study. *J Burn Care Res*. 2012 Mar-Apr;33(2):252-8.

Stockton KA, Kandiah DA, Paratz JD, Bennell KL. Fatigue, muscle strength and vitamin D status in women with systemic lupus erythematosus compared with healthy controls. *Lupus*. 2012 Mar;21(3):271-8.

Tabah A, Koulenti D, Laupland K, Misset B, Valles J, Bruzzi de Carvalho F, Paiva JA, Cakar N, Ma X, Eggimann P, Antonelli M, Bonten MJ, Csomos A, Krueger WA, Mikstacki A, Lipman J, Depuydt P, Vesin A, Garrouste-Orgeas M, Zahar JR, Blot S, Carlet J, Brun-Buisson C, Martin C, Rello J, Dimopoulos G, Timsit JF. Characteristics and determinants of outcome of hospital-acquired bloodstream infections in intensive care units: The EURO-BACT International Cohort Study. *Intensive Care Med*. 2012 Dec;38(12):1930-45.

Tipping CJ, Young PJ, Romero L, Saxena MK, Dulhunty J, Hodgson CL. A systematic review of measurements of physical function in critically ill adults. *Crit Care Resus*. 2012;14(4):302-11.

Townell NJ, Munckhof WJ, Nimmo G, Bannan A, Holley A, Daniel A, Bennett C, Coulter C, Looke DF. Community-associated methicillin-resistant *Staphylococcus aureus* endocarditis 'down under': Case series and literature review. *Scand J Infect Dis*. 2012 Jul;44(7):536-40.

Udy AA, Varghese JM, Altukroni M, Briscoe S, McWhinney BC, Ungerer JP, Lipman J, Roberts JA. Subtherapeutic initial β -lactam concentrations in select critically ill patients: association between augmented renal clearance and low trough drug concentrations. *Chest*. 2012 Jul;142(1):30-9.

Udy AA, Altukroni M, Jarrett P, Roberts JA, Lipman J. A comparison of pulse contour wave analysis and ultrasonic cardiac output monitoring in the critically ill. *Anaesth Intensive Care*. 2012 Jul;40(4):631-7.

Udy AA, Roberts JA, Dewaele JJ, Paterson DL, Lipman J. What's behind the failure of emerging antibiotics in the critically ill? Understanding the impact of altered pharmacokinetics and augmented renal clearance. *Int J Antimicrob Agents* 2012 Jun 39(6): 455-7.

Varghese JM, Roberts JA, Wallis SC, Boots RJ, Healy H, Fassett RG, Lipman J, Ranganathan D. Pharmacokinetics of intraperitoneal gentamicin in peritoneal dialysis patients with peritonitis (GIPD Study). *Clin J Am Soc Nephrol*. 2012 Aug;7(8):1249-56.

Young P, Beasley R, Bailey M, Bellomo R, Eastwood GM, Nichol A, Pilcher DV, Yunus NM, Egi M, Hart GK, Reade MC, Cooper DJ; Study of Oxygen in Critical Care (SOCC) Group. The association between early arterial oxygenation and mortality in ventilated patients with acute ischaemic stroke. *Crit Care Resusc*. 2012 Mar;14(1):14-9.

Young P, Hodgson C, Dulhunty J, Saxena M, Bailey M, Bellomo R, Davies A, Finfer S, Kruger P, Lipman J, Myburgh J, Peake S, Seppelt I, Streat S, Tate R, Webb S; ANZICS Clinical Trials Group. End points for phase II trials in intensive care: recommendations from the Australian and New Zealand Clinical Trials Group consensus panel meeting. *Crit Care Resusc*. 2012 Sep;14(3):211-5.

Hyperbaric Medicine Services



Dr Robert Webb
Director, Hyperbaric
Medicine

Overview

The Hyperbaric Medicine Service is currently interested in the use of Hyperbaric Oxygen Therapy (HBOT) in the treatment of patients with established late radiation soft tissue injury, particularly in the head and neck region. This is currently being investigated with a randomised, double-blinded, placebo-controlled trial. We are also collaborating with the Queensland Institute of Medical Research (QIMR) to look at the effect of HBOT on the oral bacterial genome in this group of patients.

The service is also conducting a quality of life pilot study in patients with established xerostomia from parotid irradiation who have been referred for prevention or treatment of established osteoradionecrosis.

In addition, we are developing a Database for presentation of a case series of Sudden Sensorineural Hearing Loss (SSHL) referrals that have been treated with HBOT at RBWH. This is a topical area of research at this time.

We have recently received Human Research Ethics Committee (HREC) approval to conduct a multicentre, randomised controlled trial using HBOT to treat chronic diabetic foot ulcers.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Susannah Sherlock	BSc, MBBS, FANZCA	Senior Staff Specialist	HBOT with respect to soft tissue radiation injury, sudden sensorineural hearing loss , diabetic wound healing

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Sherlock, S., Reid, D., Webb, R., Bourke, A., Acton, C., Dickie, G., Krause, L., Atkinson, P., King D.	Hyperbaric Oxygen for Treatment of Radiation Induced Xerostomia	RBWH Research Committee	\$30,000	2012

Professor Tess Cramond Multidisciplinary Pain Centre



Prof. Julia Fleming
Director, Professor Tess
Cramond Multidisciplinary
Pain Centre

Overview

The Professor Tess Cramond Multidisciplinary Pain Centre provides assessment and management of inpatients and outpatients with complex persistent pain, malignant pain and burns pain that may impact adversely upon multiple dimensions of patient's lives.

Objectives of care are to reduce pain, but to prioritise improvements in functionality, independence, confidence, mood and self-management strategies, notably where complete pain relief is not possible. The research program is not limited to pharmaceutical and interventional therapies, and includes evaluation of systems, models of care and outcome measures for pain management, the role of physical therapies and a rehabilitation approach, and the impact of pain management programs on pain-induced alterations in mood, stress, sleep and activity patterns.

Highlights have been:

- » Dr Paul Gray was awarded his PhD for investigations into the incidence and treatment of neuropathic pain following burn injury, and highlighted his concept of 'Phantom Skin Pain'.
- » Nicole Andrews enrolled in a PhD at The University of Queensland (UQ), extending her research commenced as Cramond Fellow in the Pain Centre in 2011 into the activity patterns in patients with chronic pain. A broader multicentre study was aided by collaborations within the Persistent Pain Statewide Health Services Strategy group in Queensland. Progress was reported at pre-eminent international meetings (IASP, NOI).
- » Dr Bryce Clubb developed research collaborations with the Drugs of Dependence Unit (Bill Lovedale) and Metro North Alcohol and Drug Assessment Unit (Jane Fischer, Jason Connor) on a project examining the epidemiology of co-occurrence of chronic non-malignant pain and substance dependence, to ultimately translate the research results into recommendations to inform and enhance service delivery and early intervention.
- » Professor Julia Fleming, Soraya Bews, Karl Bagraith and Meaghan Poulton advanced the allied health model of care project, to inform future care pathways in the centre.
- » Karl Bagraith developed further research collaborations with the NIH Roadmap Cooperative Group for the Patient-Reported Outcomes Measurement Information System (PROMIS) to progress outcome measures research in the centre. Progress was reported at pre-eminent international meetings (IASP) and to the Australian Pain Society.

The future holds potential for further expansion of clinical research collaborations across the state into public health issues in persistent pain, opioid tolerance and dependency, clinical outcomes, burns pain, neuropathic pain, pain imaging and spinal pain.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Julia Fleming	MBBS, PhD, FANZCA, FFPMANZCA, DipMed (Pain Mgmt)	Director, Professor Tess Cramond Multidisciplinary Pain Centre	pain medicine, neurobiology of pain, glia and spinal inhibitory systems, neuropathic and metastatic bone pain, public health in pain
Dr Paul Gray	MBBS, PhD, FANZCA, FFPMANZCA	Senior Staff Specialist	pain medicine, anaesthesia, burn pain, persistent pain management strategies including interventional.
Dr Sara Olsen	BPsycholSc (Hons), PhD	Psychologist	sleep and cognition in persistent pain
Nicole Andrews	BOccThy (Hons1)	Senior Occupational Therapist, Cramond Fellow	chronic pain management, CRPS, activity patterns in chronic pain
Karl Bagraith	BOccThy (Hons1)	Principle Project Officer, New MOC Workforce	outcome measurement, persistent pain, chronic musculoskeletal conditions, International Classification of Functioning, Disability and Health
Meaghan Poulton	BA, DipPsychology, GradDip Business Admin, GradCert Mgmt	Principle Project Officer, New MOC Workforce	allied health models of care
Soraya Bews	BAppSc (Speech Pathology), MHA (Masters in Health Administration)	Principle Project Officer, New MOC Workforce	allied health models of care
Dr Bryce Clubb	MBBS, FRACR, FFPMANZCA, FACHAM, RACP	Staff Specialist	concurrent chronic non-malignant pain and substance dependence (pain medicine, addiction medicine)
Susan Morrell	BA (Hons) Psychology, MBA	Advanced Psychologist	educational approaches, outcome measures in persistent pain

Supervised post-graduate students

Name	Current studies	Research topic
D'Arrigo, R.	Occupational Therapy Honours Student	Predictors of sleep quality in persons with chronic pain: a momentary with-in persons perspective
Hutchinson, L.	Occupational Therapy Honours Student	Rasch analysis of the Pain Self-Efficacy Questionnaire

Awards and achievements

Award	Event	Name
National PhD student Travel Award, Australian Pain Society		Bagraith, K.S.
International PhD student Travel Award, International Association for the Study of Pain		Bagraith, K.S.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Andrews, N., Meredith, P., Strong, J.	Approach to activity and determinants of daily function in patients with chronic pain: A momentary within-persons perspective	Occupational Therapist Board of Queensland	\$15,000	2011-2012
Bagraith, K.S., Fleming, J., Morrell, S., Cella, D., Cook, K., Ostini, R., Strong, J.	The promising prospect of the NIH's PROMIS (Patient Reported Outcome Measurement Information System): Clinical validation of new generation depression and anxiety measures for pain practice and research	RBWH Foundation	\$30,000	2012-2013
Fleming, J.	Can we improve access and patient outcomes with a more integrated and efficient allied health service in persistent pain? Development and evaluation of a new model of care	Allied Health Workforce Advice and Co-ordination Unit, Queensland Health	\$130,000	2011-2012

Publications

Andrews N, Strong J, Meredith P. Activity pacing, avoidance, endurance and associations with patient functioning in chronic pain: A systematic review and meta-analysis. Archives of Physical Medicine and Rehabilitation. 2012;93:2109-2121.e7

Bagraith KS, Strong J, Sussex R. Disentangling disability in the fear avoidance model: More than pain interference alone. Clinical Journal of Pain. 2012;28(3):273-4.

Bagraith KS, Strong J. Using the ICF to examine the content coverage and clinical utility of the PROMIS pain interference scale. Quality of Life Research. 2012;Suppl:20:47-8.

Olsen S, Smith SS, Oei T, Douglas J. Motivational Interviewing (MINT) Improves Continuous Positive Airway Pressure (CPAP) Acceptance and Adherence: A Randomised Controlled Trial. Journal of Clinical and Consulting Psychology. 2012;80(1):151-63.

Hornsey MJ, Olsen S, Barlow FK, Oei TPS. Testing a single-item visual analogue scale as a proxy for cohesiveness in group psychotherapy. Group Dynamics: Theory, Research and Practice. 2012;16(1):80-90.



Internal Medicine Services



Kate Mason
Acting Executive Director
Internal Medicine Services



Sandy Jamieson
Acting Nursing Director
Internal Medicine Services

Overview

Internal Medicine Services has a commitment to academic medicine, with areas of outstanding research productivity.

To support our research there are strong links with the Queensland Institute of Medical Research (QIMR), The University of Queensland Centre for Clinical Research (UQCCR), The University of Queensland (UQ) School of Medicine, Queensland University of Technology (QUT) and a range of other research partners.

Nursing and health professionals actively participate in evidenced-based practice and multidisciplinary research across the service line. In most areas of Internal Medicine Services Research, assistant roles are filled by highly skilled nursing staff.

We are proud of the fact that over the last year, we had a continual increase in publications and an increase in the value of the research grants. This is a testament to the dedication, curiosity and persistence of our staff. The most important benefit of this is that we know that the best patient care occurs in centres where there is a strong culture of research.

Key departments

- » Department of Cardiology
- » Department of Clinical Immunology and Allergy
- » Department of Clinical Pharmacology
- » Department of Dermatology
- » Department of Endocrinology
- » Department of Gastroenterology and Hepatology
- » Genetic Health Queensland
- » Infectious Diseases Unit
- » Department of Internal Medicine and Aged Care/Obstetric Medicine Unit
- » Department of Neurology
- » Department of Nuclear Medicine/Queensland PET Service
- » Palliative Care Service
- » Department of Pharmacy
- » Department of Renal Medicine
- » Department of Rheumatology
- » Department of Thoracic Medicine

Executive and directing staff

Kate Mason
Acting Executive Director
Internal Medicine Services

Sandy Jamieson
Acting Nursing Director
Internal Medicine Services

Assoc. Prof. John Atherton
Director, Cardiology

Dr Roger Prentice
Director, Clinical Immunology
and Allergy

Dr Paul Kubler
Director, Clinical Pharmacology

Dr Ivan Robertson
Director, Dermatology

Assoc. Prof. Michael d'Emden
Director, Endocrinology

Dr Mark Appleyard
Director, Gastroenterology
and Hepatology

Assoc. Prof. Julie McGaughan
Director, Genetic Health Queensland

Assoc. Prof. Tony Allworth
Director, Infectious Disease

Assoc. Prof. Charles Denaro
Director, Internal Medicine and Aged Care

Dr Andrew Wong
Director, Neurology and Stroke Services

Dr Carol Douglas
Clinical Director, Palliative Care

Assoc. Prof. Ian Coombes
Director, Pharmacy

Dr Helen Healy
Director, Renal Medicine

Dr Paul Kubler
Director, Rheumatology

Department of Cardiology



Assoc. Prof. John Atherton
Director, Cardiology

Overview

We have a broad investigator-driven research program with a dominant focus on health service research and evaluation, including chest pain assessment, heart failure disease management, alternative models of cardiac rehabilitation, cardiac genetics, cardiac obstetrics, multimodality imaging and heart failure prevention.

Much of our research has grown from the efforts of clinicians to improve models of care with interdisciplinary collaboration within RBWH and with other centres nationally and internationally.

The research led by Dr William Parsonage (Department of Cardiology) and Dr Louise Cullen (Department of Emergency Medicine) has led to international collaborations and is informing the evaluation of chest pain across Queensland and in other jurisdictions.

Dr Parsonage has developed a unique cardiac obstetric clinic in collaboration with obstetric physicians (Internal Medicine Services and Department of Obstetric Medicine) and other clinicians. Dr Parsonage has been invited to join the steering committee on the European Cardiac Obstetric Registry (part of the EURObservational Research program) as the only Australian representative.

We have developed a cardiac genetic clinic as a collaboration between Genetic Health Queensland and Cardiology. Dr John Atherton (Department of Cardiology) and Associate Professor Julie McGaughan (Genetic Health Queensland) are on the Australian National Genetic Heart Disease Registry.

We have recently focussed on heart failure prevention. This includes investigating the role of training echocardiography-naïve nursing staff to assess LV function. This could allow a paradigm shift of echocardiography to affordable population screening and disease monitoring. We are collaborating with a UQ-based group of researchers (led by Dr Chamindie Punyadeera) to investigate the role of salivary biomarkers in heart failure and cardiovascular disease detection.

Additional research interests includes a dedicated electrophysiology animal laboratory, hypertrophic cardiomyopathy genotype-phenotype correlation and Fabry disease.

The department has a strong clinical trials research program and has been the lead national and global recruiting site for a number of multicentre trials. Areas of interest include acute coronary syndromes, heart failure, pacing and atrial fibrillation.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. John Atherton	MBBS, PhD, FRACP, FCSANZ	Director, Cardiology	heart failure, cardiac genetics, cardiac rehabilitation, economics
Dr Anthony Camuglia	MBBS	Cardiology Registrar	
Dr Loretta Carr	MBBS	Cardiology Registrar	
Dr Karin Chia	MBBS, FRACP	Staff Cardiologist and Electrophysiologist	electrophysiology
Dr Julie Ch'ng	MBBS, FRACP	Staff Cardiologist	echocardiography
Dr Stuart Cox		Cardiology Registrar	
Dr David Cross	MBBS, FRACP, FCSANZ	Visiting Senior Cardiologist	clinical trials, acute coronary syndromes
Dr Arun Dahiya	MBBS, FRACP	Staff Cardiologist	multimodality imaging including echocardiography, cardiac CT and cardiac MRI
Dr Mark Dooris	MBBS (Hons 2), FRACP, GradDipSci (Mathematics), FCSANZ	Staff Interventional Cardiologist; Director, Cardiac Catheterisation Laboratory	interventional cardiology, clinical audit, mathematics
Gae Goodman	BN	Clinical Trials Coordinator	clinical trials
Dr Christopher Hammett	BHB, MBChB, MD, FRACP, FCSANZ	Staff Interventional Cardiologist	interventional cardiology, clinical trials, acute coronary syndromes
Dr Samuel Hillier	MBBS, MPhil	Cardiology Registrar	
Linda Hindom	BN	Clinical Trials Coordinator	clinical trials
Dr Cleonie Jayasuriya	MBBS, FRACP	Staff Cardiologist	echocardiography

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Arvin Lamanna	MBBS	Cardiology Registrar	
Lydia Lilwall	BN	Clinical Trials Coordinator	clinical trials
Ada Lo	GradDipApplSci, Masters	Senior Echosonographer	echocardiography, cardiomyopathies, novel echocardiographic imaging techniques
Dr Louise McCormack	MBBS	Cardiology Registrar	
Dr Paul Martin	MBBCh, MRCPI, FRACP, PhD, FCSANZ	Staff Cardiologist and Electrophysiologist	electrophysiology, atrial fibrillation
Leeanne Palethorpe	BN	Clinical Trials Coordinator	clinical trials
Dr William Parsonage	BMedSci (Hons), MBBS, DM, MRCP (UK), FRACP	Staff Cardiologist	echocardiography, cardiac obstetrics, chest pain assessment, Fabry disease
Dr Rohan Poulter	MBBS, FRACP	Interventional Cardiology Fellow	cardiac CT
Dr Sandy Prasad	MBBS, FRACP	Staff Cardiologist	echocardiography
Prof. Adam Scott	BSc, PhD	Director, Cardiac Sciences	exercise physiology, heart failure, Fabry disease
Dr Rajesh Shetty	MBBS, MD (Internal Medicine), DM (Cardiology), FRACP	Staff Interventional Cardiologist	interventional cardiology, pulmonary hypertension
Dr Peter Stewart	MBBS, FRACP	Staff Interventional Cardiologist	interventional cardiology
Dr Roger Wilkinson	MBBS, FRACP, FCSANZ	Visiting Cardiologist	
Dr John Younger	MBBCh, MRCP, FRACP	Staff Cardiologist	multimodality imaging including echocardiography, cardiac CT and cardiac MRI

Supervised post-graduate students

Name	Current studies	Research topic
Guppy-Coles, K.	BAppSci (Hons)	The performance and reliability of using non-specialised nursing staff to quantify a left ventricular ejection fraction via 3D echocardiography
Poulter, R.	MPhil	Evaluating the diagnostic performance of dual energy cardiac computed tomography
Lo, A.	PhD	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression
Dahiya, A.	MPhil	Assessment and improvement of multi-reader concordance and accuracy in diagnoses based on multiple parameters
Noonan, K.	MAppSci	Do anti-inflammatory agents promote linear ablation lesion discontinuities? An electrophysiological examination
Suna, J.	Masters of Research	The effect of exercise on sleep quality in heart failure patients
Leung, B.	MBBS (Hons)	Are burn survivors at increased risk of cardiovascular disease?

Awards and achievements

Award	Event	Name
Nursing Young Investigator Award	European Society of Cardiology Heart Failure Congress, Belgrade, Serbia	Suna, J.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Mudge, A., Denaro, C., Scott, A., Javorsky, G., Atherton, J., Scuffham, P., Marwick, T., O'Rourke, P.	A supervised exercise programme following hospitalisation for heart failure: Does it add to disease management?	NHMRC No. 498403	\$698,950	2008-2012
Hickey, A., Javorsky G., Atherton, J., Denaro, C., Ingram, J., Caprenter, J., Munns, A., Klingberg, R., Matthews, P., Farlow, A., Driver, A.	Enhancing medication titration in patients with heart failure	Connecting Healthcare in Communities (CHIC) Primary Healthcare Partnerships Council	\$313,700	2009-2012
Brown A., Greenslade, J., O'Rourke, P., Chu, K., Hou, X., Parsonage, W., Graves, N., Than, M., Tate J.	A clinical decision tool for rapid assessment of cardiac chest pain	Queensland Emergency Medicine Research Foundation	\$581,223	2011-2013
Brown, A., Greenslade, J., O'Rourke, P., Chu, K., Hou, X., Parsonage, W., Graves, N., Than, M., Tate J.	Validation of novel high sensitivity troponin assay in cohort of 1,000 patients presenting with chest pain	Roche Diagnostics	\$29,407 (plus costs of biochemical assays)	2011-2012
Atherton, J., Williamson, D.	Statewide cardiac genetic project	Statewide Cardiac Clinical Network	\$65,000	2012
Atherton, J., Trueman, H.,	Statewide cardiac genetic, family-linked, data management system	Statewide Cardiac Clinical Network Cardiac Information Solution Program	\$42,800	2012
Atherton J., Trueman, H.	Statewide cardiac genetic project	Statewide Cardiac Clinical Network	\$65,000	2012-2013

Publications

Arumugam D, Atherton JJ, Martin PT. A lethal injection? *Lancet*. 2012;379:492.

Atherton JJ. Chronic heart failure: We are fighting the battle, but are we winning the war? *Scientifica*. 2012 (accepted 31/10/12) (commissioned spotlight article).

Atherton JJ. Stage B Heart Failure: Rationale for screening. *Heart Failure Clin*. 2012;8(2):273-83.

Atherton JJ, Hayward CS, Wan Ahmad WA, Kwok B, Jorge J, Hernandez AF, Liang L, Kociol RD, Krum H, ADHERE International-Asia Pacific Scientific Advisory Committee. Patients characteristics from a regional multi-center database of acute decompensated heart failure in Asia Pacific (ADHERE International- Asia Pacific). *J Card Fail*. 2012;18:82-8.

Atherton JJ, Hickey A, Suna J. Striving to achieve best practice in heart failure disease management. *BMJ Qual Saf*. 2012;21:263.

Cullen L, Parsonage WA, Greenslade J, Lamanna A, Hammett CJ, Than M, Ungerer JP, Chu K, O'Kane S, Brown AF. Comparison of early biomarker strategies with the Heart Foundation of Australia/Cardiac Society of Australia and New Zealand guidelines for risk stratification of emergency department patients with chest pain. *Emerg Med Australas*. 2012;24:595-603.

Foo JYY, Wan Y, Kostner K, Arivalagan A, Atherton J, Cooper-White J, Dimeski G, Punyadeera C. NT-ProBNP levels in saliva and its clinical relevance to heart failure. *PLoS ONE* 7(10):e48452. doi:10.1371/journal.pone.0048452 (accepted 25/9/12).

Greenslade JH, Cullen L, Parsonage W, Reid CM, Body R, Richards M, Hawkins T, Lim SH, Than M. Examining the signs and symptoms experienced by individuals with suspected acute coronary syndrome in the Asia-Pacific region: a prospective observational study. *Ann Emerg Med*. 2012;60:777-785.

Greenwood JP, Maredia N, Younger JF, Brown JM, Nixon J, Everett CC, Bijsterveld P, Ridgway JP, Radjenovic A, Dickinson CJ, Ball SG, Plein S. Cardiovascular magnetic resonance and single-photon emission computed tomography for diagnosis of coronary heart disease (CE-MARC): a prospective trial. *Lancet*. 2012 Feb 4;379:453-60.

Hawkes AL, Patrao TA, Atherton J, Ware RS, Taylor CB, O'Neil A, Foreman R, Oldenburg B. Effect of a telephone-delivered coronary heart disease secondary prevention program (ProActive Heart) on quality of life and health behaviors: Primary outcomes of a randomised controlled trial. *Int J Behav Med*. 2012 Jul 18 [Epub ahead of print].

Hunter J, Prasad S, Atherton JJ. Diagnosing diastolic heart failure. *Cardiology Today*. 2012;2(1):1-5 (cover feature for March 2012 issue).

Ingles J, Yeates L, O'Brien L, McGaughan J, Atherton J, Semsarian C. Genetic testing for inherited heart diseases: longitudinal impact on health-related quality of life. *Genet Med* 2012 May 3. doi: 10.1038/gim.2012.47. [Epub ahead of print].

Publications

- Ingles J, McGaughan J, Scuffham PA, Atherton J, Semsarian C. A cost-effectiveness analysis of genetic testing in the evaluation of families with hypertrophic cardiomyopathy. *Heart*. 2012;98:625-30.
- Lim SL, Atherton JJ, Lam CSP. Heart failure with preserved ejection fraction: Current perspectives. *Asean Heart Journal*. 2012.
- Lo A, Foder K, Martin P, Younger JF. Response to steroid therapy in cardiac sarcoidosis: insights from myocardial strain. *Eur Heart J Cardiovasc Imaging*. 2012 Feb;13(2): E3. doi: 10.1093/ejehocard/jer184.
- Mega JL, Braunwald E, Wiviott SD, Bassand JP, Bhatt DL, Bode C, Burton P, Cohen M, Cook-Bruns N, Fox KA, Goto S, Murphy SA, Plotnikov AN, Schneider D, Sun X, Verheugt FW, Gibson CM; ATLAS ACS 2—TIMI 51 Investigators. Rivaroxaban in patients with a recent acute coronary syndrome. *N Engl J Med* 2012;366:9-19 (highest recruiting site in the world with 176 patients randomised from RBWH).
- O'Neil A, Hawkes AL, Atherton JJ, Patrao TA, Sanderson K, Wolfe R, Taylor CB, Oldenburg B. Telephone-delivered, health coaching improves anxiety outcomes after myocardial infarction: The 'ProActive Heart' trial. *Eur J Prev Cardiol*. 2012 Sep 6 [Epub ahead of print].
- Parsonage WA, Cullen L, Younger JF, Than M. The role of cardiac computed tomography in assessment of acute chest pain. *Heart Lung Circ*. 2012 Nov;21(11):763; Epub 2012 May 18.
- Roe MT, Armstrong PW, Fox KA, White HD, Prabhakaran D, Goodman SG, Cornel JH, Bhatt DL, Clemmensen P, Martinez F, Ardissino D, Nicolau JC, Boden WE, Gurbel PA, Ruzyllo W, Dalby AJ, McGuire DK, Leiva-Pons JL, Parkhomenko A, Gottlieb S, Topacio GO, Hamm C, Pavlides G, Goudev AR, Oto A, Tseng CD, Merkely B, Gasparovic V, Corbalan R, Cinteza M, McLendon RC, Winters KJ, Brown EB, Lokhnygina Y, Aylward PE, Huber K, Hochman JS, Ohman EM; TRILOGY ACS Investigators. Prasugrel versus clopidogrel for acute coronary syndromes without revascularisation. *N Engl J Med*. 2012 Oct 4;367(14):1297-309.
- Schwartz GG, Olsson AG, Abt M, Ballantyne CM, Barter PJ, Brumm J, Chaitman BR, Holme IM, Kallend D, Leiter LA, Leitersdorf E, McMurray JJ, Mundt H, Nicholls SJ, Shah PK, Tardif JC, Wright RS; dal-OUTCOMES Investigators. Effects of dalcetrapib in patients with a recent acute coronary syndrome. *N Engl J Med*. 2012;367:2089-99.
- Scott IA, Cullen L, Tate JR, Parsonage W. Highly sensitive troponin assays: A two-edged sword? *Med J Aust*. 2012;197:320-3.
- Starmer G, Younger JF, Stewart P. Multimodality imaging of isolated left ventricular apical hypoplasia. *Eur Heart J*. 2012;33(5):675.
- Suarez J, Piccini JP, Liang L, Atherton JJ, Hayward CS, Krum H, Fonarow GC, Lopes RD, Hernandez AF. International variation in use of oral anticoagulation among heart failure patients with atrial fibrillation. *Am Heart J*. 2012;163:804-11.
- Than M, Cullen L, Aldous S, Parsonage WA, Reid CM, Greenslade J, Flaws D, Hammett CJ, Beam DM, Ardagh MW, Troughton R, Brown AF, George P, Florkowski CM, Kline JA, Peacock WF, Maisel AS, Lim SH, Lamanna A, Richards AM. 2-Hour accelerated diagnostic protocol to assess patients with chest pain symptoms using contemporary troponins as the only biomarker: the ADAPT trial. *J Am Coll Cardiol*. 2012;59:2091-8.

Department of Clinical Immunology and Allergy



Dr Roger Prentice
Director, Clinical
Immunology and Allergy

Overview

The Department of Clinical Immunology and Allergy provides a consultative service for patients with immunological conditions and allergies.

Clinical immunology patients include those with immunodeficiencies, angioneurotic odema, connective tissue diseases such as systemic lupus erythematosus and vasculitides such as Wegener's granulomatosis. Patients with allergic conditions such as urticaria, angioedema, allergic rhinitis, asthma, eczema, stinging insect allergy and drug allergy are also treated in the area.

The day procedure unit within the department provides services including gammaglobulin infusions with hypogammaglobulinaemia, an allergy challenge capsule testing for food additive reactions, and skin testing for drugs such as anaesthetic agents.

Advanced trainee, Dr Carl Kennedy, has completed his required research project entitled 'Prevalence of *Blomia tropicalis* sensitisation in allergy and respiratory patients presenting to Royal Brisbane and Women's Hospital and success' and successfully submitted it to the RACP/RCPA.

Facilities located in the Department of Clinical Immunology and Allergy include:

- » An injection clinic for the desensitisation of patients with bee, wasp, grass, cat or house dust mite allergy
- » Patient education for house dust mite elimination
- » Patient education for self-administration of adrenaline
- » A consultative service from the RBWH Department of Nutrition and Dietetics for patients with urticaria and angioedema.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Roger Prentice	MBBS, MSC (Med), MRCP (UK), FRACP	Director, Clinical Immunology and Allergy	house and dust mite allergy, urticaria, angioedema, connective tissue diseases
Dr Graham Solley	MBBS, FACP, FAAAAI, DABIM, DABAI FRCPA	Visiting Medical Officer	stinging insect allergy
Dr Carl Kennedy	MBBS	Advanced Trainee (Clinical Immunology and Allergy)	house/dust mite allergy

Department of Clinical Pharmacology



Dr Paul Kubler
Director, Clinical
Pharmacology

Overview

The primary aims of the Department of Clinical Pharmacology are to enhance medication safety within the hospital and to maximise the efficacy, safety and cost-effectiveness of drug therapy, using a consistent, systematic approach.

The department offers a range of services, including advice on therapeutic drug monitoring, consultation liaison for patients with pharmacological problems and various process issues in methods of drug prescribing and availability.

Other areas of activity include teaching of undergraduate and postgraduate medical students, pharmacists and pharmacy students, nursing staff and allied health staff, whilst undertaking ongoing clinical and basic pharmacology research.

The department is additionally enhanced by a Quality Use of Medicines (QUM) Unit in the last three years. The role of this unit is to monitor and evaluate medication use in collaboration with prescribers, pharmacists, nurses and other healthcare professionals to improve patient care through appropriate, safe and cost effective use of medicines.

Current research projects include:

- » A multi-centre prospective study investigating the effect of a Bayesian method of aminoglycoside monitoring on clinical outcomes and cost: Comparison to existing Begg nomogram
- » Indications and outcomes of off-label rituximab use at two tertiary hospitals
- » Analysis of non-formulary use of high-cost drugs at a tertiary hospital over seven-year period.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Paul Kubler	MBBS, FRACP	Staff Specialist and Director	therapeutics, rheumatology
Dr Jennifer Martin	MBChB, MA (Oxon), FRACP, PhD	Senior Staff Specialist, Internal Medicine and Clinical Pharmacology	pharmacogenetics, quality use of medicines
Dr Peter Donovan	MBBS, FRACP	Staff Specialist	clinical pharmacology, endocrinology, general medicine
Karen Davies	BNurs, RN	Clinical Nurse Consultant, Safe Medication Practice	medication safety, quality processes and procedures, education, renal medicine
Jessica Toleman	BPharm	QUM Coordinator	quality use of medicine
Julia Holman	BPharm	QUM Pharmacist	quality use of medicine
Champika Pattullo	BPharm	QUM Pharmacist	quality use of medicine
Anne Cassimatis		Administration Officer	quality use of medicine

Department of Endocrinology



Assoc. Prof. Michael d'Emden
Director, Endocrinology

Overview

The Department of Endocrinology is staffed by 13 medical staff, two administrative staff, four allied health staff, four research nurses, two clinical nurses, one podiatrist, one dietitian and four scientists.

Clinical services provided include inpatient consultative services at RBWH and The Prince Charles Hospital (TPCH) and specialised out-patient clinics at RBWH, TPCH and Bundaberg Hospital.

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

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

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

- » HIV disease and bone
- » Pheochromocytoma and bone disease
- » Genetics of pheochromocytoma
- » Genetics of thyroid cancer
- » Genetics of skeletal dysplasia
- » Genetics of osteogenesis imperfecta
- » Genome-wide association studies of osteoporosis.

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

The department collaborates closely with the Departments of Obstetric Medicine and Neonatology with two of our doctoral students undertaking their studies in Obstetric Medicine.

On-going Research projects:

- » Basic Science
 - i) Placental handling of thyroid hormone and iodine.
- » Clinical trials
 - ii) 12 Studies: four completed and eight on-going.
- » Chronic funding
 - iii) Improving outcomes of patients with Type 2 Diabetes.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Michael d'Emden	PhD, FRACP	Director, Endocrinology	clinical trials, chronic disease
Assoc. Prof. Emma Duncan	PhD, FRACP	Senior Staff Specialist	genetics of endocrinology, clinical bone disease
Dr Robin Mortimer	FRACP	Senior Director, Office of Health and Medical Research	thyroid hormone, iodine and placenta innovation projects
Dr Maree Mungomery	FRACP	Visiting Medical Officer	chronic disease, diabetes telehealth project
Dr Kerry Richard	PhD	Senior Scientist	thyroid hormone, iodine and placenta
Dr Huika Li	MB	Scientist	thyroid hormone, iodine and placenta
Dr Kelly Landers	PhD	Research Assistant	thyroid hormone, iodine and placenta
Erika Tapp	BHlthSc	Research Assistant	clinical trials
Helen Legg	BNurs	Research Assistant	clinical trials
Liz Lahz	BNurs	Research Assistant	clinical trials
Janelle McFarlane		Trials Coordinator	bone metabolism studies

Research staff

Name	Qualifications	Position	Interests/specialties
Alison Barry	BA, BNurs, RM, MPH, CDE	Project Officer	chronic disease projects
Sharon Chambers	RN	Project Officer	chronic disease projects

Awards and achievements

Award	Event	Name
Smart State Grant for 'Regulation of transplacental transfer of thyroid hormones and iodide'		Richard, K., Li, H., Mortimer, H.
2012 Australian and New Zealand Bone and Mineral Society Kaye Ibbertson Award		Duncan, E.
2012 Endocrine Society of Australia Mid-career Award		Duncan, E.
2012 Clinician Researcher of the Year, Australian Society for Medical Research Queensland		Duncan, E.
2012 Best Basic Science Free Paper, Australian Rheumatology Association		Duncan, E.
2012 Paper of the Year Runner-up Award – The University of Queensland Diamantina Institute		Duncan, E.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Duncan, E.	Determining the causes of congenital vertebral defects	NHMRC Project Grant 1044543	\$926, 275.74	3 years
Duncan, E.	Marfan syndrome: Using next-generation sequencing to identify mendelian mutations and modifying genes	The Prince Charles Hospital Foundation Project Grant	\$91,000	2012

Publications

Achong N, d'Emden M, Fagermo N, Mortimer R. Pregnancy-induced Cushing's syndrome in recurrent pregnancies: Case report and literature review. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2012;52(1):96–100.

Bradbury LA, Barlow S, Geoghegan F, Hannon RA, Stuckey SL, Wass JAH, Russell RGG, Brown MAA, Duncan EL. Risedronate in Adults with Osteogenesis Imperfecta Type 1: Increased bone mineral density and decreased bone turnover, but high fracture rate persists. *Ost Int*. 2012;23(1):285-94.

Bullock M, Duncan E, O'Neill C, Tacon L, Sywak M, Sidhu S, Delbridge L, Learoyd D, Robinson B, Ludgate M, Clifton-Bligh R. Association of FOXE1 polyalanine tract variant with papillary thyroid cancer. *J Clin Endo Metab*. 2012;97(9):E1814-9 [Epub 26 June 2012].

d'Emden M, Shaw M, Colman J, Colagiuri P, Twigg S, Goodall G, Schneider I, Cheung H, Wah N. Australian Diabetes Society. Royal College of Pathologists of Australasia. Australasian Association of Clinical Biochemists. The role of HbA1c in the diagnosis of diabetes mellitus in Australia. *Medical Journal of Australia*. 2012;197(4):220-1.

Estrada K, Stykarsdottir U, Evangelou E, Hsu YH, Duncan EL, Ntzani EE, Oei L (all equal first authors) and 174 others. New genomic loci for bone mineral density, osteoporosis and risk of fracture. *Nat Genet*. 2012;44(5):491-501.

Gregson C, Steel SA, O'Rourke KP, Allan K, Ayuk J, Bhalla A, Clunie G, Crabtree N, Fogelman I, Goodby A, Langman CM, Linton S, Marriott E, McCloskey E, Moss KE, Palferman T, Panthakalam S, Poole KES, Stone MD, Turton J, Wallis D, Warburton S, Wass JAH, Duncan EL, Brown MA, Davey-Smith G, Tobias JH. Sink or swim: An evaluation of the clinical characteristics of individuals with high bone mass. *Ost Int*. 2012; 23(2):643-54.

Hou-Feng Zheng, Tobias JH, Duncan E (equal first authors) et al. and 53 others. NT16 influences bone mineral density, cortical bone thickness, bone strength, and osteoporotic fracture risk. *PLoS Genetics*. 2012;8(7):e1002745 [Epub 5 Jul 2012].

Li H, Patl J, Mortimer RH, Richard K. Ontogenic changes in human placental sodium iodide symporter expression. *Placenta*. 2012;33(11): 946-948.

Mortimer RH, Landers KA, Balakrishnan B, Li H, Mitchell M, Patel J and Richard K. Secretion and transfer of the thyroid hormone binding protein transthyretin by human placenta. *Placenta*. 2012;33:252-256.

Patel J, Mortimer RH and Richard K. Oxygen concentration regulates expression and uptake of transthyretin, a thyroxine binding protein, in human primary trophoblast cells. *Journal of Endocrinology*. 2012;212:159-167.

Richard K, Li H, Landers KA, Patel J, Mortimer RH. Placental Transport of Thyroid Hormone and Iodide. In: Zheng J *The Human Placenta* pp309-334. Croatia: InTech Publishers.

Zankl A, Duncan E (equal first authors), Leo P, Clark G, Glazov E, Addor MC, Herlin T, Ae Kim C, Leheup B, McGill J, McTaggart S, Mittas S, Mitchell A, Mortier G, Robertson S, Schroeder M, Terhal P, Brown M (Mutations in MAFB cause multicentric carpotarsal osteolysis). *Am J Hum Gen*. 2012;90(3):494-501.

Department of Gastroenterology and Hepatology



Dr Mark Appleyard
Director, Gastroenterology
and Hepatology

Overview

Research in the Conjoint Gastroenterology Laboratory is focussed on understanding the molecular events underlying the development of bowel polyps and cancers. We aim to identify genetic changes associated with advanced bowel polyps and therefore those at highest risk of progressing to cancer.

We are also studying subgroups of bowel cancer with the aim of identifying gene changes associated with different outcomes and responses to therapy. We are using state of the art technologies to study these molecular changes, including genome wide array analysis to examine DNA methylation signatures, expression profiles and copy number variations. Work from this laboratory has directly impacted surveillance strategies for early detection of bowel polyps and choice of therapy for patients with advanced bowel cancer.

Research in the Inflammatory Bowel Disease Laboratory headed by Dr Graham Radford-Smith links clinical outcomes to disease biology in both Crohn's disease and ulcerative colitis. We use our extensive bio-repository to determine whether disease natural history, including both disease- and treatment-related adverse events can be influenced and hence predicted by genotype, gene expression, and epigenetic events. Our clinical and scientific programmes have been used as a springboard in the development of the ANZ IBD Consortium, now made up of 16 centres, and recently attracting a major project grant from NHMRC. This consortium has a strong link with the International IBD Genetics Consortium, making a significant contribution to recent publications that have redefined the genetic architecture of IBD.

Dr Mark Appleyard conducts research into diseases of the small bowel and how these may be diagnosed and treated by advanced endoscopy techniques such as capsule endoscopy. He also has an interest in colonoscopy and in endoscopy outcomes research, and is Co-PI on the 'Optimisation of colonoscopy' project, centred at the RBWH and QIMR.

Dr Richard Skoien joined the full time staff in 2012 as a consultant hepatologist. He has commenced several projects in collaboration with the liver fibrosis group in the QIMR (Professor Grant Ramm), including studies on new non-invasive methods of detecting progression of liver diseases and HCC surveillance.

Professor Lawrie Powell continues his research into haemochromatosis.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Mark Appleyard	MD, FRACP	Director, Gastroenterology and Hepatology	small bowel endoscopy
Assoc. Prof. Graham Radford-Smith	DPhil, FRACP, FRCP	Senior Staff Specialist, Head of the IBD and TPN Programmes, Group Leader, QIMR	inflammatory bowel diseases, health services research, TPN
Prof. Barbara Leggett	MD, FRACP	Senior Staff Specialist; Head, Conjoint Gastroenterology Laboratory	colorectal cancer, clinical hepatology
Prof. Lawrie Powell	AC, MD, PhD, DUniv, FRACP, FRCP, FRCPT	Director, Research; Senior Staff Specialist	haemochromatosis
Dr Richard Skoien	BA, LLB, BSc, MBBS, FRACP	Staff Specialist	viral hepatitis, non-alcoholic fatty liver disease, non-invasive assessment of liver disease, liver cancer
Assoc. Prof. David Hewett	MBBS, MSc, PhD, FRACP	Staff Specialist; Head of Phase 2, UQ Medical School	colorectal cancer, clinical endoscopy research, health services improvement
Assoc. Prof. Vicki Whitehall	PhD	Senior Scientist	colorectal cancer
Ron Buttenshaw	CertChem	Senior Technician	colorectal cancer
Troy Dumenil	MAppSci	Research Assistant	colorectal cancer
Diane McKeone	Diploma Laboratory Techniques	Research Assistant	colorectal cancer
Winnie Fernando	MSc	PhD student	colorectal cancer
Catherine Bond	MSc	PhD student	colorectal cancer
Dr Mark Bettington	BSc, MBBS, FRCPA	PhD student	colorectal cancer
Jo Minna	BNurs	Clinical Nurse	liver clinical trials

Research staff

Name	Qualifications	Position	Interests/specialties
Deborah D'Arcy	BNurs	Clinical Nurse Consultant	liver clinical trials
Rita Marangone	BNurs	Clinical Nurse	liver clinical trials
Dr Mariko Howlett	MBBS, FRACP	Staff Specialist	inflammatory bowel diseases, clinical research
Lisa Simms	BSc (Hons)	Senior Scientist	inflammatory bowel diseases - QIMR
Dr Georgia Hume	MBBS (Hons), FRACP	Staff Specialist, PhD student	inflammatory bowel diseases – clinical, QIMR
Dr Nicole Walker	MBBS, FRACP	IBD Fellow; MPhil student	inflammatory bowel diseases – clinical, QIMR
Dr Bodo Speckman	PhD	Post-doctoral Research Fellow	inflammatory bowel diseases – QIMR
Dr Anthony Croft	BSc (Hons), MBBS	Medical Registrar; Honorary Research Fellow	inflammatory bowel diseases - clinical
Katherine Hanigan	BSc (Public Health)	Senior Research Assistant	inflammatory bowel diseases – QIMR
Kylie Mesquita	BSc (Hons)	Research Assistant	Inflammatory Bowel Diseases – QIMR/RBWH
Ning Huang	MAppSci	Research Assistant	inflammatory bowel diseases – QIMR
Dr Angela Lin	BMedSci, MBBS	Research Assistant	inflammatory bowel diseases - clinical
Dr Phoebe Thwaites	MBBS	Medical Registrar; Honorary Research Fellow	inflammatory bowel diseases – clinical
Natalie Gerns	BNurs	Clinical Nurse	inflammatory bowel diseases – clinical
Madonna McIntyre	BNurs	Clinical Nurse	inflammatory bowel diseases – clinical trials
Anna Zournazi	BSc, MSc, CN, BNurs	Research Coordinator	inflammatory bowel diseases – RBWH
Yoon An	MBBS	Medical Intern	clinical endoscopy research
Dr Florian Grimpen	MBBS FRACP	Staff Specialist	clinical endoscopy research

Supervised post-graduate students

Name	Current studies	Research topic
Bond, C.	PhD	Molecular features distinguishing microsatellite stable versus microsatellite instability high serrated pathway tumours
Bettington, M.	PhD	Identification of molecular features of high-risk colorectal polyps
Fernando, W.	PhD	Molecular pathogenesis of serrated carcinoma of the colon
Tutticci, N.	MPhil	The prevalence and predictors of sessile serrated adenomas at colonoscopy
Chapman-Kiddell, C.	MPhil	The role of diet in IBD
Walker, N.	MPhil	Acute severe ulcerative colitis: Long-term outcomes
Hume, G.	PhD	The intestinal mucosal immune response and genetic susceptibility to inflammatory bowel disease
Skoien, R.	PhD (Hepatology research)	The pathogenesis of non-alcoholic fatty liver disease: From parenchymal injury to portal fibrosis
Wood, M.	PhD (Hepatology research)	

Awards and achievements

Award	Event	Name
Best Overall Research	2012 RBWH Healthcare Symposium	Bond, C.
Best Basic Science Oral	2012 RBWH Healthcare Symposium	Bond, C.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Whitehallm, V., Leggett, B.	Tubulovillous adenomas in colorectal tumorigenesis	NHMRC	\$284,250	2009-2012
Radford-Smith, G., Montgomery, Lawrance	Genomic medicine: Predictors of refractory ulcerative colitis and response to treatment	NHMRC	\$849,261	2012-2014
Leggett, B., Whitehall, V.	Molecular and clinical features of serrated adenomas	Cancer Council Queensland	\$197,450	2012-2013
McLaren, C. et al (six centres, including QIMR)	Genetic modifiers of iron status in haemochromatosis HFE C282Y homozygotes	National Institutes of Health	\$US 265,190	2011-2012
Anderson, G.J., Walter, P., Powell, L.W., Ramm, G.A., Subramaniam V.N.	Assessment of oxidant stress and mitochondrial dysfunction in young adults with iron loading diseases	NHMRC Project Grant 613689	\$591,525	2010-2012
Delatycki, M. et al (three centres)	Venesection or expectant management for moderate iron overload in HFE related hereditary haemochromatosis	NHMRC	\$820,000	2012-2014
Radford-Smith, G.	Identification of causal variants associated with colorectal cancer complicating colonic inflammatory bowel disease using exome sequencing technology and extreme phenotype study design	RTRCC-QIMR	\$43,500	2012
Radford-Smith, G.	Identification of tissue gene signatures that predict treatment response in ulcerative colitis	RBWH	\$24,000	2012
Skoien, R., Ramm, G., Powell, L., Burgess A.	New non-invasive methods to detect progression of liver disease and identify patients at highest risk of cirrhosis-related mortality	RBWH Foundation; QIMR	\$70,000	2012-2013
Skoien, R., Fenech M., Beckman, K., Thwaites, P.	Streamlining hepatocellular carcinoma surveillance at RBWH using nurse-led clinics	Bayer Australia Ltd	\$26,000	2012-2013
Skoien, R., Leggett, B., Fenech, M., Beckman, K.	Establishment of a clinical and scientific hepatology research programme and database at RBWH	RBWH Research Advisory Committee	\$50,000	2012-2013
Skoien, R., Ramm, G., Gonsalkorala, E., Burgess, A.	Serum markers in atypical liver lesions (SMALL) study	RBWH Foundation	\$40,000	2012-2013

Publications

Bond C, Umapathy A, Buttenshaw R, Wockner L, Leggett B, Whitehall V. Chromosomal instability in BRAF mutant, microsatellite stable colorectal cancers. *PLoS One*. 2012;7:10 e47483.

Bond CE, Umapathy A, Ramsnes I, Greco SA, Zhen Zhao Z, Mallitt KA, Buttenshaw RL, Montgomery GW, Leggett BA, Whitehall VL. Mutation is common in microsatellite stable. BRAF mutant colorectal cancers. 2012;130:1567-1576.

Dowty J, Win A, Buchanan D, Lindor N, Macrae F, Clendenning M, Antill Y, Thibodeau S, Casey G, Gallinger S, Le Marchand L, Newcomb P, Haile R, Young G, James P, Giles G, Gunawardena S, Leggett B, Gattas M, Boussioutas A, Ahnen D, Baron J, Parry S, Goldblatt J, Young J, Hopper J, Jenkins M. Cancer risks for MLH1 and MSH2 mutation carriers. *Human Mutation*. 2012;34:490-497.

Gaze S, McSorley HJ, Daveson J, Jones D, Bethony JM, Oliveria LM, Speare R, McCarthy JS, Engwerda CR, Croese J, Loukas A. Characterising the mucosal and systemic immune response to experimental human hookworm infection. *Plos Pathog*. 2012;8:e1002520.

Horsfall L, Skoien R, Moss C, Scott I, Macdonald GA, Powell EE. Triage of referrals to outpatient hepatology services: An ineffective tool to prioritise patients? *Aust Health Rev*. 2012 Nov;36(4):443-7.

Hume GE, Fowler EV, Griffiths LR, Doecke JD, Radford-Smith GL. Common PPARγ variants C161T and Pro12Ala are not associated with inflammatory bowel disease in an Australian cohort. *J Gastrointest Liver Dis*. 2012 Dec;21(4):349-55.

Jostins L, Ripke S, Weersma RK – 92 authors – Radford-Smith G, Mathew CG, Rioux JD, Schadt E, Daly MJ, Franke A, Parkes M, Vermeire S, Barrett JC, Cho JH. Host-microbe interactions have shaped the genetic architecture of inflammatory bowel disease. *Nature*. 2012 Nov 1;491(7422):119-24.

Krishnaprasad K, Andrews JM, Lawrance IC, Florin T, Gearry RB, Leong RW, Mahy G, Bampton P, Prosser R, Leach P, Chitti L, Cock C, Grafton R, Croft AR, Cooke S, Doecke JD, Radford-Smith GL. Inter-observer agreement for Crohn's disease sub-phenotypes using the Montreal classification: How good are we? A multi-centre Australasian study. *J Crohns Colitis*. 2012 Apr;6(3):287-93.

Publications

Melino M, Gadd VL, Walker GV, Skoien R, Barrie HD, Jothimani D, Horsfall L, Jones A, Sweet MJ, Thomas GP, Clouston AD, Jonsson JR, Powell EE. Macrophage secretory products induce an inflammatory phenotype in hepatocytes. *World J Gastroenterol*. 2012 Apr 21;18(15):1732-44.

O'Brien J, Powell LW. Non-alcoholic fatty liver disease: Is iron relevant? *Hepatology International*. 2012;6:332-341.

Powar MP, Martin P, Croft AR, Walsh A, Stevenson ARL, Lumley JW, Stitz RW, Radford-Smith GL, Clark DA. Surgical outcomes in steroid refractory acute severe ulcerative colitis: The impact of rescue therapy. *Colorectal Disease*. 2012.

Sandborn WJ, Gasink C, Gao LL, Blank MA, Johanns J, Guzzo C, Sands BE, Hanauer SB, Targan S, Rutgeerts P, Ghosh S, de Villiers WJ, Panaccione R, Greenberg G, Schreiber S, Lichtiger S, Feagan BG; CERTIFI Study Group (Radford-Smith). Ustekinumab induction and maintenance therapy in refractory Crohn's disease. *N Engl J Med*. 2012 Oct 18;367(16):1519-28.

Sorrentino D, Radford-Smith G. Clinical remission after stopping infliximab in Crohn's disease: Is all that glitters true gold? *Gastroenterology*. 2012;142(5):e17.

Whitehall VL, Rickman C, Bond CE, Ramsnes I, Greco SA, Umapathy A, McKeone D, Faleiro RJ, Buttenshaw RL, Worthley DL, Nayler S, Zhao ZZ, Montgomery G, Mallitt K, Jass J, Matsubara N, Notohara K, Ishii T, Leggett BA. Oncogenic PIK3CA mutations in colorectal cancers and polyps. *Int J Cancer*. 2012;131:813-820.

Win A, Lindor N, Young J, Macrae F, Young G, Williamson E, Parry S, Goldblatt J, Lipton L, Winship I, Leggett B, Tucker K, Giles G, Buchanan D, Clendenning M, Rosty C, Arnold J, Levine A, Haile R, Gallinger S, Le Marchand L, Newcomb P, Hopper J and Jenkins M. Risks of primary extracolonic cancers following colorectal cancer in lynch syndrome. *Journal of the National Cancer Institute*. 2012;104:1363-72.

Wood MJ, Powell LW, Dixon JL, Ramm GA. Clinical cofactors and hepatic fibrosis in hereditary hemochromatosis: The role of diabetes mellitus. *Hepatology*. 2012;56(3):904-911.

Wylie N, Adib R, Barbour AP, Fawcett J, Hill A, Lynch S, Martin I, O'Rourke TR, Puhalla H, Rutherford L, Slater K, Whiteman DC, Neale RE, Queensland Pancreatic Cancer Study Group. Surgical management in patients with pancreatic cancer: A Queensland perspective. *ANZ J Surg*. 2012 Oct 24;1445-2197.

Genetic Health Queensland



Assoc. Prof. Julie McGaughran
Director, Genetic Health Queensland

Overview

Genetic Health Queensland (GHQ) is the statewide specialty service which provides clinical genetics services for Queensland. The service is based at the Royal Brisbane and Women's Hospital and undertakes clinics at many locations throughout the state, including Cairns, Townsville, Mackay, Bundaberg, Toowoomba, Nambour and the Gold Coast.

There are six consultant staff, two advanced trainees and an intern on elective placement. As a statewide service, GHQ contributes to education and grand rounds both at RBWH and the Royal Children's Hospital (RCH) as well as across the state.

All clinical staff undertake a number of presentations locally to other health professional groups and to non-government organisations. Genetic counsellors work with the medical staff both at RBWH and at sites throughout Queensland. MSc students in genetic counselling undertake their practical training in the department.

The Queensland Familial Bowel Cancer registry is also part of the department. There are two research nurses who are part of the kConFab cancer research group. There is a weekly in-service, journal club and clinical review meeting. Research interests include dysmorphology, bone dysplasias, neurogenetics, prenatal genetics, cardiac genetics and cancer genetics.

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

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Julie McGaughran	BSc (Hons), MB ChB (Hons), MD, FRCP, FRACP, AFRACMA	Director, Genetic Health Queensland	dysmorphology, cardiac genetics
Assoc. Prof. Michael Gabbett	MBBS, MMedSc, FRACP, AFRACMA	Staff Specialist	prenatal genetics, paediatric genetics
Dr Michael Gattas	MB BS, FRACP	Senior Staff Specialist	
Assoc. Prof. John MacMillan	MD FRCP, FRACP	Senior Staff Specialist	neurogenetics
Dr Rachel Susman	BSc MBBS MRCP FRACP	Staff Specialist	cancer genetics
Assoc. Prof. Andreas Zankl	MD, FMH, FRACP	Staff Specialist	skeletal dysplasias
Jennifer Berkman	BSc (Hons), MSc	Senior Genetic Counsellor	cancer genetics
Lauren Hunt	BSc, MSc (Hons)	Genetic Counsellor	prenatal screening, cardiac genetics
Vicki Fennelly	RN, RM, MSc	Research Nurse	kConFab familial breast and ovarian cancer research
Allison Wicht	RN	Research Nurse	kConFab familial breast and ovarian cancer research

Supervised post-graduate students

Name	Current studies	Research topic
Tan, Y.	PhD	eMBRACE study
Gabbett, M.	MPhil	Characterisation of the oculoauriculovertebral spectrum
Simpson, R.	Master of Science (Genetic Counselling)	Assessment of patient and relatives' understanding of 'no mutation detected' and 'unclassified variant' (UCV) BRCA1/BRCA2 gene test results and effect on health behaviours
Rixon T.	Master of Science with Honours (Genetic counselling)	Attitudes towards disclosure of clinically important research findings in familial Parkinson Disease: What are the perceived benefits and concerns?

Awards and achievements

Award	Event	Name
Runner Up for 'Improving Access to Primary Health Care'	3rd Annual Excellence in Indigenous Health Awards	MacMillan, J. with the Machado Joseph Disease Foundation

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Berkman, J., McGaughan, J., White, J., Hyland, V., Rowell, J., Francis, G.	Indirect BRCA1/2 gene testing: Development of a protocol for testing in families without a living cancer-affected family member	RBWH Private Practice Trust Fund	\$30,000	2012-2013

Publications

Chambers D, Clarke B, McGaughan J, Garcia C. Lung fibrosis, premature graying and macrocytosis. *American Journal Respiratory and Critical Care Medicine*. 2012;186(5):e8-9 IF 10.19.

Groza T, Hunter J, Zankl A. The Bone Dysplasia Ontology: Integrating genotype and phenotype information in the skeletal dysplasia domain. *BMC Bioinformatics*. 2012;13:50;201.

Hunt L, Peterson M, Sinnott S, Sutton B, Cincotta R, Duncombe G, Chua J and McInerney-Leo A. Uptake of invasive prenatal tests in pregnancies conceived via assisted reproductive technologies: The experience in Queensland, Australia. *Prenatal Diagnosis*. 2012;32(11):1049-1052.

Ingles J, McGaughan J, Scuffham P, Atherton J, Semsarian C. A cost-effectiveness model of genetic testing for the evaluation of families with hypertrophic cardiomyopathy. *Heart*. 2012;98(8):625-30. IF 5.39.

Ingles J, Yeates L, O'Brien L, McGaughan J, Scuffham P, Atherton J, Semsarian C. Genetic testing for inherited heart diseases: Longitudinal impact on health-related quality of life. *Genetics in Medicine*. May 3. Epub IF 3.92.

Ireland PJ, Donaghey S, McGill J, Zankl A, Ware RS, Pacey V, Ault J, Savarirayan R, Sillence D, Thompson E, Townshend S, Johnston LM. Development in children with achondroplasia: a prospective clinical cohort study. *Developmental Medicine and Child Neurology*. 2012;54(6):532-7.

Ireland PJ, Johnson S, Donaghey S, Johnston L, Ware RS, Zankl A, Pacey V, Ault J, Savarirayan R, Sillence D, Thompson E, Townshend S, McGill J. Medical management of children with achondroplasia: Evaluation of an Australasian cohort aged 0-5 years. *Journal of Paediatrics and Child Health*. 2012;48(5):443-9.

Jackson GC, Mittaz-Crettol L, Taylor JA, Mortier GR, Spranger J, Zabel B, Le Merrer M, Cormier-Daire V, Hall CM, Offiah A, Wright MJ, Savarirayan R, Nishimura G, Ramsden SC, Elles R, Bonafe L, Superti-Furga A, Unger S, Zankl A, Briggs MD. Pseudoachondroplasia and multiple epiphyseal dysplasia: A seven-year comprehensive analysis of the known disease genes identify novel and recurrent mutations and provides an accurate assessment of their relative contribution. *Human Mutation*. 2012;33(1):144-57.

Maher B, Kerr H, Cox M, MacMillan HC, Brimage JC, Esposito PJ, Gianfrancesco T, Haupt F, Nyholt LM, Lea DR, Griffiths RA. Confirmation that Xq27 and Xq28 are susceptibility loci for migraine in independent pedigrees and a case-control cohort. *Neurogenetics*. 2012;13(1):97-101.

McGaughan J, Sidhu M, Jessop M. 2012. Pleural malignancy in a 22-year-old female with a chromosome 22q13 deletion. *Am J Med Genet Part A*. 2012;158A:2362–2363. IF 2.51.

Temtamy SA, Ismail S, Aglan MS, Ashour AM, Hosny LA, El-Badry TH, Aboul-Ezz EH, Amr K, Fateen E, Maguire T, Ungerer K, Zankl A. A report of three patients with MMP2 associated hereditary osteolysis. *Genetic Counseling*. 2012;23(2):175-84.

Terhal PA, van Dommelen P, Le Merrer M, Zankl A, Simon ME, Smithson SF, Marcelis C, Kerr B, Kinning E, Mansour S, Hennekam RC, van der Hout AH, Cormier-Daire V, Lund AM, Goodwin L, Megarbane A, Lees M, Betz RC, Tobias ES, Coucke P, Mortier GR. Mutation-based growth charts for SEDC and other COL2A1 related dysplasias. *American Journal of Medical Genetics. Part C – Seminars in Medical Genetics*. 2012;160C(3):205-16.

Wall N, McGaughan J. A second case of contractures, webbed neck, micrognathia, hypoplastic nipples and unusual facial features (Dinno Syndrome). *Am J Med Genet*. 2012;158A:836-838 IF 2.51.

Zankl A, Duncan EL, Leo PJ, Clark GR, Glazov EA, Addor MC, Herlin T, Kim CA, Leheup BP, McGill J, McTaggart S, Mittas S, Mitchell AL, Mortier GR, Robertson SP, Schroeder M, Terhal P, Brown MA. Multicentric carpotarsal osteolysis is caused by mutations clustering in the amino-terminal transcriptional activation domain of MAFB. *American Journal of Human Genetics*. 2012;90(3):494-501.

Infectious Diseases Unit



Assoc. Prof. Tony Allworth
Director, Infectious Disease

Overview

The Infectious Diseases Unit is a broad based multi-disciplinary unit providing a range of services both across the RBWH campus and beyond. It has a major role as a consultative service for the clinical management of patients with infectious diseases problems across all disciplines.

The inpatient activity of the unit is focused on care of patients with complex infectious diseases such as HIV, and other specialised infectious diseases such as malaria, melioidosis, encephalitis, and meningitis. The unit is also an isolation ward for patients colonised with multiresistant organisms, those infected with airborne pathogens such as tuberculosis, varicella, SARS and influenza, and it includes the high containment unit for the management of organisms such as those causing viral haemorrhagic fevers.

The Infectious Diseases Unit provides ongoing education for the graduate medical program with clinical attachments for medical students as well as clinical teaching for the physician trainees. The Richard Kemp Day Therapy Unit provides cost-effective care by facilitating out-patient therapy and the placement of peripherally inserted central catheters (PICCs).

The unit also is the hub for the RBWH Hospital in the Home (HITH) Program and the RBWH Antimicrobial Stewardship Program. The Infection Monitoring and Prevention Service (IMPS) provides a campus-wide, facility-specific infection control program, which aims to meet the needs of patients and staff and provides expert advice throughout the campus with regard to issues pertinent to infection control.

The IV Service provides safe and efficient intravenous access and care for inpatients throughout the hospital and the service continues to conduct a twice-yearly IV cannulation course for both Queensland Health and external clients, including graduate medical course students.

The research interests of the unit are diverse including anti-microbial therapies and resistance, epidemiology especially in the nosocomial setting, parasitology and its overlap with other disciplines including HIV medicine and immunological diseases, zoonotic infections and HIV/AIDS.

The medical staff of the unit are focussed upon the translation of basic science research into clinical application and have affiliations with the Queensland Institute of Medical Research (QIMR), The University of Queensland (UQ), particularly through the Centre for Clinical Research and the Australian Infectious Diseases Research Centre.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Tony Allworth	MBBS (Hons I), FRACP, FRCPA, FACTM, MASM	Director, Infectious Diseases; Visiting Scientist, UQCCR	HIV/AIDS, antibiotic resistance, influenza, therapeutic trials
Dr Krispin Hajkowicz	MBBS, FRACP	Consultant Physician, Infectious Diseases Unit and Internal Medicine and Aged Care	Hospital in the Home, antimicrobial stewardship, viral hepatitis
Assoc. Prof. James McCarthy	MD, FRACP, DHandTM (Lon),	Consultant Physician; Visiting Scientist, QIMR,	parasitology, malaria, vaccine trials
Prof. David Paterson	PhD, MBBS, FRACP, FRCPA	Consultant Physician; Microbiologist, Pathology Queensland; Professor, Infectious Diseases, UQ; Medical Advisor, CHRISP	antimicrobial resistance, infections in ICU
Dr Andrew Redmond	MBBS, FRACP	Consultant Physician; Visiting Scientist QIMR, Infectious Diseases	
Assoc. Prof. Marion Woods	MD, MPH, FRACP, FACP, FAFPHM	Consultant Physician; Visiting Scientist, QIMR	clinical epidemiology, HIV, disease pathogenesis
Dr Alex Chaudhuri	BSc (Hons), MBBS	Registrar	
Dr Hugh Wright	BSc, BVMS, PhD, MBBS	Registrar	
Janelle Zillmann	RN	HIV Coordinator	
Geoff McQueen	BNurs	Nurse Unit Manager, Wattlebrae	
Michelle Doidge	BNurs	CNC (Infection Control)	
Michael Terry	BNurs	CNC (Infection Control)	

Supervised post-graduate students

Name	Current studies	Research topic
Britton, S.	PhD	Malaria diagnostics
Leow, H.	PhD	Malaria diagnostics
Appleyard, B.	PhD	Malaria in pregnancy
Butterworth, A.	PhD	Drugs for Malaria Gametocytes
Kearns, T.	PhD	Community control of parasites in Indigenous communities
Wailan, A.	PhD	Genome and plasmid characteristics of NDM-1 and OXA181 producing enterobacteriaceae
Kamolovit, W.	PhD	Molecular epidemiology and Insight into genomes of two common nosocomial pathogens: Carbapenem-resistant acinetobacter baumannii and vancomycin-resistant enterococcus faecium
Zowawi, H.	PhD	Beta-lactamase producing gram-negative bacteria in the Gulf states (region-wide surveillance and innovative diagnosis)
Vaska, V.	PhD	MRSA
Rogers, B.	PhD	Risk factors for community-onset ESBL producing E. coli
Adnan, S.	PhD	Improving antimicrobial use in critically ill patients
van Hal, S.	PhD	Predictors of mortality in Staphylococcus aureus Bacteremia
Marquess, J.	PhD	An epidemiological study to investigate asymptomatic clostridium difficile colonisation in hospital patients
McCarthy, K.	PhD	Pseudomonas aeruginosa bloodstream infection
Robertus, L.	PhD	The epidemiology of tuberculosis in Queensland as it relates to strategies to prevent transmission, particularly in indigenous Australians

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
McCarthy, J.	Health Research Fellowship	Queensland	\$750,000	2011-2015
Clements, A., Andrews, R., Black, J., Traub, R., McCarthy, J.	A cluster RCT of the impact of a community-based hygiene and sanitation programme on infection with intestinal parasites following mass albendazole chemotherapy in Timor-Leste	NHMRC Partnership (Project 1013713)	\$987,270	2011-2013
Andrews, R., Speare, R., Carapetis, J., McCarthy, J., Cheng, A., Kearns, T., Mulholland, E., Holt, D., Markey, P.	Impact of an ivermectin mass drug administration program against endemic scabies and strongyloidiasis	NHMRC (Project 605804)	\$ 1,257,125	2011-2014
Gardiner, D., Trenholme, K., Brown, C., McCarthy, J.	Assay development for lead identification of anti-gametocidal agents	NIH R21 (NS075609-01)	\$ 136,444	2011-2012
Graves, N., Paterson, D.L.	Centre for Research Excellence in Reducing Healthcare Associated Infection	NHMRC Centre for Research Excellence Grant Application	\$2,495,795	2011-2016
Cooper, M., Paterson, D.L., Roberts, J.	Membrane-targeted antibiotic for complicated skin and skin structure (cSSSI) infections caused by MRSA, VISA, and VRE (methicillin and Vancomycin-resistant S. aureus and enterococci)	Wellcome Trust Grant	\$5,046,982	2011-2013
Clements, A., Paterson, D.L.	Clostridium difficile: assessing the risks to Australia of an emerging healthcare-related pathogen	NHMRC Project Grant Application	\$936,321	2011-2013

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Cooper, M., Paterson, D.L.	Development of novel hybrid antibiotics for the treatment of hospital and community-acquired drug resistant gram-negative and gram-positive bacterial infections	NHMRC	\$689,946	2011-2013
Paterson, D.	Queensland Health Senior Clinical Research Fellowship	Queensland Health	\$425,000	2011-2014

Publications

Adnan S, Paterson DL, Lipman J, Kumar S, Li J, Rudd M, Roberts JA. Pharmacokinetics of beta-lactam antibiotics in patients with intra-abdominal disease: a structured review. *Surg Infect (Larchmt)*. 2012 Feb;13(1):9-17.

Basáñez MG, McCarthy JS, French MD, Yang GJ, Walker M, Gambhir M, Prichard RK, Churcher TS. A research agenda for helminth diseases of humans: modelling for control and elimination. *PLoS Negl Trop Dis*. 2012;6(4):e1548.

Boatin BA, Basáñez MG, Prichard RK, Awadzi K, Barakat RM, García HH, Gazzinelli A, Grant WN, McCarthy JS, N'Goran EK, Osei-Atweneboana MY, Sripa B, Yang GJ, Lustigman S. A research agenda for helminth diseases of humans: towards control and elimination. *PLoS Negl Trop Dis*. 2012;6(4):e1547.

Chen SC, Slavin MA, Heath CH, Playford EG, Byth K, Marriott D, Kidd SE, Bak N, Currie B, Hajkiewicz K, Korman TM, McBride WJ, Meyer W, Murray R, Sorrell TC; Australia and New Zealand Mycoses Interest Group (ANZMIG)-Cryptococcus Study. Clinical manifestations of *Cryptococcus gattii* infection: determinants of neurological sequelae and death. *Clin Infect Dis*. 2012 Sep;55(6):789-98. Epub 2012 Jun 5.

Chen LF, Anderson DJ, Paterson DL. Overview of the epidemiology and the threat of *Klebsiella pneumoniae* carbapenemases (KPC) resistance. *Infect Drug Resist*. 2012;5:133-41.

Craig PS, Woods ML, Boufana B, O'Loughlin B, Gimpel J, San Lett W, McManus DP. Cystic echinococcosis in a fox-hound hunt worker, UK. *Pathog Glob Health*. 2012 Oct;106(6):373-5.

Daveson KL, Woods ML. *Lodderomyces elongisporus* endocarditis in an intravenous drug user: a new entity in fungal endocarditis. *J Med Microbiol*. 2012 Sep;61(Pt 9):1338-40.

Deris ZZ, Yu HH, Davis K, Soon RL, Jacob J, Ku CK, Poudyal A, Bergen PJ, Tsuji BT, Bulitta JB, Forrest A, Paterson DL, Velkov T, Li J, Nation RL. The combination of colistin and doripenem is synergistic against *Klebsiella pneumoniae* at multiple inocula and suppresses colistin resistance in an in vitro pharmacokinetic/pharmacodynamic model. *Antimicrob Agents Chemother*. 2012 Oct;56(10):5103-12.

Engwerda CR, Minigo G, Amante FH, McCarthy JS. Experimentally induced blood stage malaria infection as a tool for clinical research. *Trends Parasitol*. 2012 Nov;28(11):515-21.

Espedido BA, Steen JA, Barbogiannakos T, Mercer J, Paterson DL, Grimmond SM, Cooper MA, Gosbell IB, van Hal SJ, Jensen SO. Carriage of an ACME II variant may have contributed to methicillin-resistant *Staphylococcus aureus* sequence type 239-like strain replacement in Liverpool Hospital, Sydney, Australia. *Antimicrob Agents Chemother*. 2012 Jun;56(6):3380-3.

Gaze S, McSorley HJ, Daveson J, Jones D, Bethony JM, Oliveira LM, Speare R, McCarthy JS, Engwerda CR, Croese J, Loukas A. Characterising the mucosal and systemic immune responses to experimental human hookworm infection. *PLoS Pathog*. 2012 Feb;8(2):e1002520.

Griffin PM, Kevat DA, McCarthy JS, Woods ML. Chronic urticaria following acute hepatitis A. *BMJ Case Rep*. 2012 Sep 18;2012.

Hayashi Y, Vaska VL, Baba H, Nimmo GR, Davis L, Paterson DL. Influenza-associated bacterial pathogens in patients with 2009 influenza A (H1N1) infection: impact of community-associated methicillin-resistant *Staphylococcus aureus* in Queensland, Australia. *Intern Med J*. 2012 Jul;42(7):755-60.

Kong F, Cook D, Paterson DL, Whitby M, Clements AC. Do staffing and workload levels influence the risk of new acquisitions of methicillin-resistant *Staphylococcus aureus* in a well-resourced intensive care unit? *J Hosp Infect*. 2012 Apr;80(4):331-9.

Kong F, Paterson DL, Coory M, Clements AC. A multilevel model of methicillin-resistant *Staphylococcus aureus* acquisition within the hierarchy of an Australian tertiary hospital. *Am J Infect Control*. 2012 Nov;40(9):787-93.

Lee N, Gatton ML, Pelecanos A, Bubb M, Gonzalez I, Bell D, Cheng Q, McCarthy JS. Identification of optimal epitopes for *Plasmodium falciparum* rapid diagnostic tests that target histidine-rich proteins 2 and 3. *J Clin Microbiol*. 2012 Apr;50(4):1397-405.

Lee JC, Redmond AM. FDG-PET for investigation of patients with fever of unknown origin. *Intern Med J*. 2012 Dec;42(12):1368; author reply 1368-9.

Lustigman S, Prichard RK, Gazzinelli A, Grant WN, Boatin BA, McCarthy JS, Basáñez MG. A research agenda for helminth diseases of humans: the problem of helminthiasis. *PLoS Negl Trop Dis*. 2012;6(4):e1582.

Publications

- Magiorakos AP, Srinivasan A, Carey RB, Carmeli Y, Falagas ME, Giske CG, Harbarth S, Hindler JF, Kahlmeter G, Olsson-Liljequist B, Paterson DL, Rice LB, Stelling J, Struelens MJ, Vatopoulos A, Weber JT, Monnet DL. Multidrug-resistant, extensively drug-resistant and pandrug-resistant bacteria: an international expert proposal for interim standard definitions for acquired resistance. *Clin Microbiol Infect*. 2012 Mar;18(3):268-81.
- Marquart L, Butterworth A, McCarthy JS, Gatton ML. Modelling the dynamics of *Plasmodium falciparum* histidine-rich protein 2 in human malaria to better understand malaria rapid diagnostic test performance. *Malar J*. 2012 Mar 19;11:74.
- Martin RE, Butterworth AS, Gardiner DL, Kirk K, McCarthy JS, Skinner-Adams TS. Saquinavir inhibits the malaria parasite's chloroquine resistance transporter. *Antimicrob Agents Chemother*. 2012 May;56(5):2283-9.
- McCarthy JS, Lustigman S, Yang GJ, Barakat RM, García HH, Srija B, Willingham AL, Prichard RK, Basáñez MG. A research agenda for helminth diseases of humans: diagnostics for control and elimination programmes. *PLoS Negl Trop Dis*. 2012;6(4):e1601.
- Ostrowski J, Paterson DL, Lipman J, Udy AA. Blood culture collection in patients with acute kidney injury receiving renal replacement therapy: an observational study. *Anaesth Intensive Care*. 2012 Sep;40(5):813-9.
- Patel BM, Paratz JD, Mallet A, Lipman J, Rudd M, Muller MJ, Paterson DL, Roberts JA. Characteristics of bloodstream infections in burn patients: An 11-year retrospective study. *Burns*. 2012 Aug;38(5):685-90.
- Parienti JJ, Paterson DL. Number of missed doses: why 1×7 does not make 7×1 ? *AIDS*. 2012 Jul 17;26(11):1437-40.
- Peleg AY, de Breij A, Adams MD, Cerqueira GM, Mocali S, Galardini M, Nibbering PH, Earl AM, Ward DV, Paterson DL, Seifert H, Dijkshoorn L. The success of acinetobacter species; genetic, metabolic and virulence attributes. *PLoS One*. 2012;7(10):e46984.
- Porter KA, Cole SR, Eron JJ Jr, Zheng Y, Hughes MD, Lockman S, Poole C, Skinner-Adams TS, Hosseini-pour M, Shaffer D, D'Amico R, Sawe FK, Siika A, Stringer E, Currier JS, Chipato T, Salata R, McCarthy JS, Meshnick SR. HIV-1 protease inhibitors and clinical malaria: a secondary analysis of the AIDS Clinical Trials Group A5208 study. *Antimicrob Agents Chemother*. 2012 Feb;56(2):995-1000.
- Prichard RK, Basáñez MG, Boatín BA, McCarthy JS, García HH, Yang GJ, Srija B, Lustigman S. A research agenda for helminth diseases of humans: intervention for control and elimination. *PLoS Negl Trop Dis*. 2012;6(4):e1549.
- Qureshi ZA, Paterson DL, Peleg AY, Adams-Haduch JM, Shutt KA, Pakstis DL, Sordillo E, Polsky B, Sandkovsky G, Bhussar MK, Doi Y. Clinical characteristics of bacteraemia caused by extended-spectrum β -lactamase-producing Enterobacteriaceae in the era of CTX-M-type and KPC-type β -lactamases. *Clin Microbiol Infect*. 2012 Sep;18(9):887-93.
- Qureshi ZA, Paterson DL, Potoski BA, Kilayko MC, Sandovsky G, Sordillo E, Polsky B, Adams-Haduch JM, Doi Y. Treatment outcome of bacteremia due to KPC-producing *Klebsiella pneumoniae*: superiority of combination antimicrobial regimens. *Antimicrob Agents Chemother*. 2012 Apr;56(4):2108-13.
- Roberts JA, Norris R, Paterson DL, Martin JH. Therapeutic drug monitoring of antimicrobials. *Br J Clin Pharmacol*. 2012 Jan;73(1):27-36.
- Rogers BA, Kennedy KJ, Sidjabat HE, Jones M, Collignon P, Paterson DL. Prolonged carriage of resistant *E. coli* by returned travellers: clonality, risk factors and bacterial characteristics. *Eur J Clin Microbiol Infect Dis*. 2012 Sep;31(9):2413-20.
- Skinner-Adams TS, Butterworth AS, Porter KA, D'Amico R, Sawe F, Shaffer D, Siika A, Hosseini-pour MC, Stringer E, Currier JS, Chipato T, Salata R, Lockman S, Eron JJ, Meshnick SR, McCarthy JS. The frequency of malaria is similar among women receiving either lopinavir/ritonavir or nevirapine-based antiretroviral treatment. *PLoS One*. 2012;7(4):e34399.
- Totsika M, Moriel DG, Idris A, Rogers BA, Wurpel DJ, Phan MD, Paterson DL, Schembri MA. Uropathogenic *Escherichia coli* mediated urinary tract infection. *Curr Drug Targets*. 2012 Oct;13(11):1386-99.
- Townell N, Looke D, McDougall D, McCarthy JS. Relapse of imported *Plasmodium vivax* malaria is related to primaquine dose: a retrospective study. *Malar J*. 2012 Jun 22;11:214.
- Udy AA, Roberts JA, De Waele JJ, Paterson DL, Lipman J. What's behind the failure of emerging antibiotics in the critically ill? Understanding the impact of altered pharmacokinetics and augmented renal clearance. *Int J Antimicrob Agents*. 2012 Jun;39(6):455-7.
- van Hal SJ, Jensen SO, Vaska VL, Espedido BA, Paterson DL, Gosbell IB. Predictors of mortality in *Staphylococcus aureus* Bacteremia. *Clin Microbiol Rev*. 2012 Apr;25(2):362-86.
- van Hal SJ, Lodise TP, Paterson DL. The clinical significance of vancomycin minimum inhibitory concentration in *Staphylococcus aureus* infections: a systematic review and meta-analysis. *Clin Infect Dis*. 2012 Mar;54(6):755-71.
- Vaska VL, Nimmo GR, Jones M, Grimwood K, Paterson DL. Increases in Australian cutaneous abscess hospitalisations: 1999-2008. *Eur J Clin Microbiol Infect Dis*. 2012 Jan;31(1):93-6.
- Whelan P, Nguyen H, Hajkowicz K, Davis J, Smith D, Pyke A, Krause V, Markey P. Evidence in Australia for a case of airport dengue. *PLoS Negl Trop Dis*. 2012;6(9):e1619.

Publications

Williamson DA, Roberts SA, Paterson DL, Sidjabat H, Silvey A, Masters J, Rice M, Freeman JT. *Escherichia coli* bloodstream infection after transrectal ultrasound-guided prostate biopsy: implications of fluoroquinolone-resistant sequence type 131 as a major causative pathogen. *Clin Infect Dis*. 2012 May;54(10):1406-12.

Williamson DA, Sidjabat HE, Freeman JT, Roberts SA, Silvey A, Woodhouse R, Mowat E, Dyet K, Paterson DL, Blackmore T, Burns A, Heffernan H. Identification and molecular characterisation of New Delhi metallo- β -lactamase-1 (NDM-1)- and NDM-6-producing *Enterobacteriaceae* from New Zealand hospitals. *Int J Antimicrob Agents*. 2012 Jun;39(6):529-33.

Woodberry T, Minigo G, Piera KA, Amante FH, Pinzon-Charry A, Good MF, Lopez JA, Engwerda CR, McCarthy JS, Anstey NM. Low-level *Plasmodium falciparum* blood-stage infection causes dendritic cell apoptosis and dysfunction in healthy volunteers. *J Infect Dis*. 2012 Aug 1;206(3):333-40.

Department of Internal Medicine and Aged Care

including Obstetric Medicine Unit



Assoc. Prof. Charles Denaro
Director, Internal Medicine
and Aged Care

Overview

The Department of Internal Medicine and Aged Care has two major entities that are engaged in research.

The Internal Medicine Research Unit's (IMRU) whose main focus is health systems research and therapeutics.

Health services research is led by Adjunct Professor Alison Mudge and the Team Research in Internal Medicine (TRIM) multidisciplinary research group. Major research areas include the design of acute and post-acute care models for older patients and the role of nutrition and exercise in improving health. Adjunct Professor Mudge is Clinical Director for the Australian Centre for Health Services Innovation (AUSHSI).

Participation in international trials of pharmacological agents are led by Associate Professor Chales Denaro and Dr Paul Kubler and include trials in anticoagulants and new agents for rheumatological conditions. The unit has been an active member of the Australian anticoagulation trialists group and has been engaged in many of the multicentre trials investigating the new anticoagulants.

IMRU has a major role in quality improvement projects in the clinical service, and has led innovations such as introduction and audit of the patient risk assessment and care planning tools and developing a statewide service for Fabry disease.

The Obstetric Medicine Unit at RBWH is active in clinical and basic science research across all medical problems which occur throughout pregnancy.

A number of PhD candidates are currently undertaking research in areas related to maternal medical conditions in pregnancy and the effects on pregnancy outcomes. The unit has been successful in numerous research grants including NHMRC grants and RBWH grants.

The unit undertakes six obstetric medicine clinics per week and two telehealth clinics to regional and rural Queensland.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Charles Denaro	MBBS, FRACP, MD	Director, Internal Medicine and Aged Care	therapeutics, cardiovascular medicine, health services
Adj. Prof. Alison Mudge	MBBS (Hons), FRACP, GradCert Health, Ec, PhD	Clinical Director, Research and Education, Internal Medicine and Aged Care	health services, geriatrics
Paul Kubler	MBBS, FRACP	Clinical Director, Clinical Pharmacology; Director, Rheumatology	therapeutics, rheumatology
Don McLeod	MBBS (Hons), FRACP, MPH	Staff Specialist	endocrinology
Julia McLeod	BSc, MBBS (Hons), FAFRM (RACP)		
Peter Donovan	MBBS, FRACP	Staff Specialist	endocrinology, clinical pharmacology
Julie Adsett	BPhy (Hons)	Senior Physiotherapist	models of exercise delivery for patients with chronic heart failure
Jessica Suna	BN, BAppSci	Clinical Nurse Consultant, Heart Failure Research	heart failure
Diane Bookless	BN, Grad Dip (Community Health), RM	Research Nurse	clinical trials
Katie Foxcroft	RN, RM, MAppSc (Research)	Coordinator, Nurse Research	obstetric medicine, clinical trials
Lisa Mitchell	RN, MSSc (Health Practice)	Project Coordinator/Nurse Researcher	health service improvement
Karen Kasper	RN, BN, MN (Leadership)	Project Coordinator/Nurse Researcher	health service improvement
Xanthe Sansome	B Phy	Research Assistant	clinical trials
Glenys Smith		Administrative Officer	

Supervised post-graduate students

Name	Current studies	Research topic
Young, A.	PhD	Preventing nutritional decline in older adults
Adsett, J.	PhD	Hydrotherapy in heart failure
Suna, J.	MHealthSci	The effect of exercise on sleep quality in heart failure patients
McRae, P.	MPhil	Identifying interdisciplinary care needs in older surgical patients
DeLooze, J.	MPH	Epidemiology of Clostridium difficile at RBWH

Awards and achievements

Award	Event	Name
Young Investigator Award; Nurse Investigator Award	2012 European Society of Cardiology Heart Failure Congress	Suna, J.
Patricia Dukes Postdoctoral Award, RBWH Foundation		Mudge, A.
Young Investigator Award	2012 International Congress of Dietetics	Young, A.
IMSANZ Young Investigator Award	2012 RACP Congress	Shakhovskoy, R.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Mudge, A., Walker, P., Donovan, P., McRae, P., Reade, M.	Improving care and outcomes for older surgical inpatients	Australian Centre for Health Services Innovation Stimulus Grant 2012	\$75,000	2012-2013
Mudge, A.	THRIVE: Targeting hospitalisation risk in vulnerable elders	RBWH Foundation Patricia Dukes Fellowship	\$240,000	2012-2014
Mudge, A., Denaro, C., Adsett, J., Mullins, R., Kasper, K., Lloyd, S., Hickey, A., Cardiff, L.	THRIVE: Targeting hospitalisation risk in vulnerable elders	RBWH Strategic Research grants	\$30,000	2012
Suna, J., Mudge, A., Douglas, J., Morris, N., Smith, S., Scott, A., Adsett, J.	The effect of a supervised hospital-based exercise program on sleep quality in patients recently discharged with heart failure	RBWH Strategic Research grants	\$30,000	2012
Young, A., Mudge, A., Banks, M., Ross, L., Isenring, E.	Managing malnutrition: hospital to home outreach for malnourished elders (HHOME)	RBWH Strategic Research grants	\$30,000	2012

Publications

Curley H, Denaro C. Dabigatran. Product familiarisation programmes: Who benefits, who shouldn't get it? (Editorial). *Int Med J.* 2012;42: 113-116.

Denaro C. Fabry disease and the role of Optometrists. *Optometry Pharma* (suppl to Australian Optometry). Dec 2012:13-14.

Donovan PJ, Iedema J, McLeod DS, Kubler P, Pillans P. Off-label use of recombinant factor VIIa in two tertiary hospitals in Queensland. *ANZ J Surg.* 2013 Mar;83(3):149-54. doi: 10.1111/ans.12005. Epub 2012 Nov 9.

McLeod DSA, Warner JV, Henman M, Gibbons K, Cowley D, McIntyre HD. Associations of serum vitamin D concentrations with obstetric glucose metabolism in a subset of the HAPO study cohort. *Diabetic Medicine.* 2012;29:e199-e204.

McLeod DSA, Watters KF, Carpenter AD, Ladenson PW, Cooper DS, Ding EL. Thyrotropin and thyroid cancer diagnosis: A systematic review and dose-response meta-analysis. *Journal of Clinical Endocrinology and Metabolism.* 2012;97(8):2682-92.

McLeod DSA, Cooper DS. The incidence and prevalence of thyroid autoimmunity. *Endocrine.* 2012;42(2):252-265.

Mudge AM, Maussen C, Duncan J, Denaro CP. Improving quality of delirium care in a general medical service with established interdisciplinary care: A controlled trial. *Int Med J.* Accepted manuscript online: 30 May 2012 DOI: 10.1111/j.1445-5994.2012.02840.x.

Publications

Mudge AM, Young AM, Ross LJ, Isenring EA, Scott RA, Scott AN, Daniels L, Banks MB. Hospital to home outreach for malnourished elders (HHOME): a feasibility pilot. *Journal of Ageing Research and Clinical Practice* 2012; 2 (May): 131-134.

Mudge AM, Denaro CP, O'Rourke P. Improving hospital outcomes in patients admitted from residential aged care: Results from a controlled trial *Age Ageing*. 2012;41(5):670-673.

Williams KA, McLeod JC, Reinhardt G. How process analysis could improve the implementation of spinal cord stimulation treatment for chronic pain. May 2012, *Pain Management*.

Young A, Banks M, Mudge A, Ross L, Daniels L. Encouraging, Assisting and Time to EAT: Improved nutritional intake for older medical patients receiving Protected Mealtimes and/or additional nursing feeding assistance. *Clinical Nutrition* 2012 <http://dx.doi.org/10.1016/j.clnu.2012.11.09>.

Young AM, Kidston S, Banks MD, Mudge AM, Isenring EA. Malnutrition screening tools: Comparison against two validated nutrition assessment methods in older medical inpatients. *Nutrition* accepted 16 April 2012.

Obstetric Medicine Unit

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Karin Lust	MBBS, FRACP	Clinical Director, Obstetric Medicine; Staff Specialist, General Medicine	obstetric medicine
Dr Narelle Fagermo	MBBS, FRACP	Staff Specialist, General and Obstetric Medicine	obstetric medicine
Assoc. Prof. Leonie Callaway	MBBS (Hons), FRACP, PhD, GCE Lead	Head, RBWH Clinical School; Staff Specialist, General Obstetric Medicine	obstetric medicine
Dr Penny Wolski	MBBS, FRACP	Staff Specialist, Endocrinology and Obstetric Medicine	obstetric medicine
Dr Helen Barrett	BSc (Hons), MBBS (Hons), FRACP	Staff Specialist, Endocrinology and Obstetric medicine	Obstetric medicine

Supervised post-graduate students

Name	Current studies	Research topic
deJersey, S.	PhD	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy
Denny, K.	PhD	Role of C5a in fetal and maternal health
Barrett, H.	PhD	Maternal lipids in pregnancy
Harris, L.	PhD	Pre-eclampsia: Early identification of at-risk patients and clinical implications
Achong, N.	PhD	Insulin requirements in the Peripartum period in type 1 diabetes mellitus
Kilgour, C.	PhD	Interprofessional communication and postpartum care of women with gestational diabetes

Awards and achievements

Award	Event	Name
ADIPS Emerging Investigator Award	2012 Australasian Diabetes in Pregnancy Society Annual Scientific Meeting	Barrett, H.
SOMANZ Travel grant	2012 SOMANZ Annual Scientific Meeting	Denham, M.R.
SOMANZ Travel Grant and Young Investigator Award	2012 SOMANZ Annual Scientific Meeting	Davidson, N.
IADPSG Travel Grant, Australian Diabetes in Pregnancy Society		Barrett, H.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Barrett, H.L., Callaway, L.K., de Jersey, S.J., Lingwood, B., Dekker Nitert, M., D'Emden, M.	Impact of metformin treatment for gestational diabetes on gestational lipid metabolism and infant body composition: A prospective observational study	RBWH Foundation	\$40,000	2012
Barrett, H.L., Dekker Nitert M, Callaway LK.	Placental lipases	Pfizer Australia Cardiovascular Lipid Research Grant	\$39,000	2012
Barrett, H.	PhD studies	Medical and Dental Research Scholarship for PhD studies	\$32,000 per year	2011-2014
Taylor, S.M., Woodruff, T.M., Callaway, L.K., Finnell, R.H.	Inflammation and placental dysfunction Inflammation of the womb during pregnancy and reproductive consequences	NHMRC	\$967,750	2009-2013
Mamun, A.A., O'Callaghan, M., Najman, J.M., Alata, R., Williams, G.M., Clavarino, A., McIntyre, H.D., (Associate Investigator: Callaway, L.)	Early origins, progression and aetiology of obesity, metabolic syndrome and diabetes: A 30-year follow-up study	NHMRC	\$1,151,675	2010-2014
Willmott, L., White, B.P., Gallois, C., Parker, M., Graves, N., Winch, S., (Industry Partner: Callaway, L.)	Futile treatment at the end-of-life: Legal, policy, sociological and economic perspectives	ARC Metro North Hospital and Health Service	\$268,000 \$150,000	2012-2014
Callaway, L., McIntyre, H.D., Dekker Nitert M., Tobin, J., O'Rourke, P., Wilkinson, S., McSweeney, C.	Probiotics and gestational diabetes mellitus	NHMRC	\$828,718	2012-2014
Callaway, L.	Exercise as a prescription: can we prevent adverse outcomes for at risk mothers and babies?	RBWH Foundation	\$150,000	2012
Callaway, L.	Grant to write RBWH Education Report	RBWH Private Practice Trust Fund	\$10,000	2012
Callaway, L., Rice, G., Mitchell, M., Harris, L.	Investigating the link between early pregnancy and obstetric disease	RBWH Foundation	\$38,404	2012
Suhrbier, A., Callaway, L.	Serpins and Preeclampsia	QIMR Clinician-Collaborative Research Award	\$34,200	2012

Publications

Achong N, d'Emden M, Fagermo N, Mortimer R. Pregnancy-induced Cushing's syndrome in recurrent pregnancies: Case report and literature review *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2012;52(1):96-100.

Achong N, Callaway LK, d'Emden M, McIntyre H D, Lust K, Barrett HL. Insulin requirements in late pregnancy in women with type 1 diabetes mellitus: A retrospective review. *Diabetes Research and Clinical Practice* Volume. 2012;98(3):414-421.

Barrett, HL, Callaway, LK., Dekker Nitert, M., Probiotics: A potential role in the prevention of gestational diabetes? *Acta Diabetol* 2012;49(1):1-13.

Barrett HL, Dekker Nitert M, Conwell LS, Callaway L (2012) Probiotics for the prevention of gestational diabetes: Cochrane Review. *Cochrane Database of Systematic Reviews* DOI: 10.1002/14651858.CD009951

Barrett HL, Devin R, Clarke S, Dekker Nitert M, Boots R, Fagermo N, Callaway LK, Lust K. A fifteen year retrospective review of obstetric patients requiring critical care. *Obstet Med*. 2012;5:166-170.

Barrett HL, Gatford, KL, Houda CM, De Blasio MJ, McIntyre HD, Callaway LK, Dekker Nitert M, Coat S, Owens JA, Hague WM, Rowan J Maternal and neonatal circulating markers of metabolic and cardiovascular risk in the Metformin in Gestational diabetes (MiG) trial: responses to maternal metformin vs. insulin treatment. *Diabetes Care*. 2012;36(3):529-36.

de Jersey SJ, Nicholson JM, Callaway LK, Daniels L. A prospective study of pregnancy weight gain in Australian women. *Aust NZ J Obstet Gynecol*. 2012;52(6):545-51.

Publications

- Hayashia Y, Lipman J, Udy A, Ng M, McWhinney B, Ungerer J, Lust K, Roberts J. Beta-lactam therapeutic drug monitoring in the critically ill: Optimising drug exposure in patients with fluctuating renal function and hypoalbuminaemia. *Int J Antimicrob Agents*. 2012.
- Hollingsworth K, Callaway L, Duhig M, Matheson S, Scott J. The association between maltreatment in childhood and pre-pregnancy obesity in women attending an antenatal clinic in Australia. *PLoS One*. 2012;7(12):e51868.
- Lingwood BE, Storm van Leeuwen AM, Carberry AE, Fitzgerald EC, Callaway LK, Colditz PB, Ward LC. Prediction of fat-free mass and percentage body fat in neonates using bioelectrical impedance analysis and anthropometric measures: Validation against the PEA POD. *Br J Nutr*. 2012;107(10):1545-52.
- McIntyre HF, Gibbons KS, Flenady VJ, Callaway LK. Overweight and obesity in Australian mothers: epidemic or endemic? *Med J Aust*. 2012;196(3):184-188.

Department of Neurology



Dr Andrew Wong
Director, Neurology and
Stroke Services

Overview

The Neurology Research Centre had a productive year in 2012, continuing to focus on areas of clinical neurology research within the RBWH Department of Neurology.

Some achievements for the group have been:

- » The Neuromuscular Group has been successful in participating in two international MND trials. Dr Rob Henderson has received a Pride of Australia Nomination for Care and Compassion.
- » Dr Nadeeka Dissanayaka from the Movement Disorders Group was awarded a Lions Postdoctoral Fellowship to continue her research into understanding anxiety in Parkinson's disease.
- » The Stroke Research Group was successful in obtaining \$163,420 in grants, including one from the RBWH Foundation Research Advisory Committee.

The Neurology Research Centre's research is conducted with real patients who are diagnosed, treated and managed by real doctors; providing a unique opportunity to gain insights into all stages of a disease.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Andrew Wong	MBBS, FRACP, PhD	Director, Neurology and Stroke Services	stroke
Dr Stephen Read	MBBS, FRACP, PhD	Honorary Visiting Neurologist	stroke
Dr Robert Henderson	MBBS, FRACP, PhD	Staff Specialist	neuromuscular, stroke, autonomics
Prof. Pamela McCombe	MBBS, FRACP, PhD	Visiting Medical Officer	neuromuscular, immune neurological disorders
Dr Nabeel Sheikh	MBBS	Research Fellow	stroke
Tennille Rowland	BOccThy, MPhil	Occupational Therapist	stroke
Alison Grattan	BN	Stroke/Neurology Research Clinical Nurse	stroke
Genevieve Skinner	RN	Stroke/Neurology Research Clinical Nurse Consultant	stroke
Dr Stefan Blum	MD, FRACP	Research Fellow	neuromuscular, immune neurological disorders
Dr Matthew Devine	MBBS	Research Assistant	neuromuscular
Dr Caroline Airey	MBBS	Research Fellow	neuromuscular
Nicole Hutchinson	BN	Clinical Nurse Consultant	neuromuscular
Helen Woodhouse	BN	Research Nurse	neuromuscular
Susan Heggie	RN	Research Nurse	neuromuscular
Casey Pfluger		Research Assistant	neuromuscular
James Killoran		Research Assistant	neuromuscular
Prof. David Reutens	MBBS, FRACP, MD, PhD	Foundation Prof. Experimental Neurology; Director, Centre of Advanced Imaging, UQ	epilepsy
Emeritus Prof. Mervyn Eadie	MD, PhD, FRACP	Honorary Consultant Neurologist	epilepsy
Assoc. Prof. Lata Vadlamudi	MBBS, FRACP, PhD	Staff Neurologist	epilepsy
Assoc. Prof. Cecile Lander	MBBS, FRACP	Visiting Medical Officer	epilepsy
Dr James Pelekanos	MBBS, FRACP	Staff Neurologist; Clinical Academic Fellow	epilepsy
Dr Alice-Ann Sullivan	MBBS, FRACP	Staff Neurologist	epilepsy
Dr Swapna Sebastian	MBBS, MRCP, MD	Research Fellow	epilepsy
Dr Julie Hocking	PhD, BPsych, MCogSci	Research Scientist	epilepsy
Rebecca Williams	BPsych, GDipMagResTech	Research Student	epilepsy
Jodi Frankland	BN	Epilepsy Nurse (Epilepsy Action)	epilepsy

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Michael Pender	MBBS (Hons I), FRACP, MD, PhD	Professor, UQ	Multiple Sclerosis
Dr Judith Greer	BSc (Hons), PhD	Neuroimmunologist, UQ	Multiple Sclerosis
Bernie Gazzard	RN, RM	MS Nurse Specialist	Multiple Sclerosis
Kaye Hooper	RN, RM, BA, MPH	MS Nurse Consultant	Multiple Sclerosis
Assoc. Prof. John O'Sullivan	MBBS, FRACP, MD	Visiting Medical Officer	movement disorders, stroke
Dr Nadeeka Dissananyaka	BSc, PhD	Post-doctoral Fellow	movement disorders
Dr Zara Ioannides		Movement Disorders Fellow	movement disorders
Amy Jones	BN	Movement Disorders Nurse Specialist	movement disorders
Prof. Peter Silburn	MBBS, FRACP, PhD	Honorary Visiting Neurologist	movement disorders
Assoc. Prof. George Mellick	BSc, PhD	Research Scientist	movement disorders

Supervised post-graduate students

Name	Current studies	Research topic
Barwood, C.	PhD	stroke
Sheikh, N.	PhD	stroke
Nguyen, G.	PhD	stroke
Roxbury, T.	PhD	stroke
Blum, S.	PhD	neuromuscular
Baumann, F.	PhD	neuromuscular
Airey, C.	PhD	neuromuscular
Killoran, J.	PhD	neuromuscular
Du, J.	PhD	epilepsy
Faizo, N.	PhD	epilepsy
Williams, R.	PhD	epilepsy
Sepehrband, F.	PhD	epilepsy

Name	Current studies	Research topic
Chupan, J.	PhD	epilepsy
Kharatishvili, I.	Post-doctoral Fellow	epilepsy
Moldrich, R.	Post-doctoral Fellow	epilepsy
Shan, Z.	Post-doctoral Fellow	epilepsy
Ullmann, J.	Post-doctoral Fellow	epilepsy
Vegh, V.	Post-doctoral Fellow	epilepsy
Vogel, M.	Post-doctoral Fellow	epilepsy
Bosshard, S.	Post-doctoral Fellow	epilepsy
Gray, M.	Post-doctoral Fellow	epilepsy
Au, T.	BSc (Hons)	movement disorders
Bell, P.	BSc (Hons)	movement disorders

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Sheikh, N., Wong, A., Finnigan, S., Read, S.	QuEST (quantitative EEG in stroke)	RBWH Foundation	\$30,000	2012
Sheikh, N., Wong, A., Finnigan, S., Read, S.	QuEST (quantitative EEG in stroke)	National Stroke Foundation	\$20,000	2012
Wong, A.	Stroke research clinical nurse consultant position	RBWH Private Practice Trust Fund	\$123,420	2012-2013
Dissananyaka, N.	Understanding anxiety in Parkinson's disease	RBWH Foundation	\$180,000	2010-2012
Dissananyaka, N.	Improving diagnostic methods of anxiety disorders in Parkinson's disease: Phase 2	RBWH Foundation	\$35,000	2012
Dissananyaka, N.	Cognitive sequelae in Parkinson's disease: identifying the neural substrates	Parkinson's Queensland	\$25,000	2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Dissananyaka, N.	Perspectives and experiences of Parkinson's disease patients with drug-induced impulse control disorders	UQ Early Career Research Grant	\$36,000	2012
O'Sullivan, J.	Therapeutic targeting of complement C5a receptor in Huntington's disease	NHMRC Project Grant APP1004455	\$452,318	2011-2013
Dr Nadeeka Dissanayaka	Cognitive Behaviour therapy to treat depression and anxiety in Parkinson's disease	UQ-UWA Bilateral Research Collaboration Award	\$18,000	2012
O'Sullivan, J., Troiana, A.	Combined imaging in the diagnosis of early corticobasal syndrome (CBS)	Brain Foundation Grant	\$30,000	2012
Brown, M.A., Xu, X., Bartlett, P.F., Wallace, R.H., Visscher, P.M., Mowry, B.J., Reutens, D.C.	Sino-Australian neurogenetics initiative	ARC Linkage Project Grant LP110200926	\$690,000	2011 - 2014
Ullmann, J., Yang, S., Kurniawan, N., Janke, A., Wullmann, M., Reutens, D.C.	A population-based atlas of the zebrafish brain for quantitative phenotypic comparisons of disease models	NIH RO3 Grant	\$120,000	2012 - 2014
Reutens, D.C.		NHMRC Practitioner Fellowship Grant No: 631352	\$504,875	2010 - 2014
Berkovic, S.F., Jackson, G.D., Gecz, J., Connelly, A., Scheffer, I.E., Reutens, D.C., Petrou, S., Dibbens, L., Calamante, F., Thomas, P.	Neurobiology of human epilepsy: Genes, cellular mechanisms, networks and whole brain	NHMRC Program Grant Grant No: 628952	\$16,450,000	2011 - 2015

Please note the Neurology Research Centre 2012 Annual Report is available for further information on research and activities undertaken. Contact the department to obtain a copy.

Department of Nuclear Medicine

including Queensland PET Service



Dr William Fong
Director, Nuclear Medicine

Overview

The Department of Nuclear Medicine at RBWH is one of the largest and busiest 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 statewide Queensland PET Service, which operates two PET/CT scanners and a cyclotron in Queensland. It offers research facilities to a wide variety of investigators. In addition to conventional tracers such as fluoro-deoxyglucose (18FDG), the service also conducts research using 18FDOPA, 18FLT and 68Ga-DOTATATE. Other tracers, such as 18FMISO, 18FET and 11C-Amino Acids, will soon be available enabling the study and research of a greater range of diseases.

There is also ongoing research interest in image reconstruction algorithms, respiratory gating and image analysis techniques.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr William Fong	MBBS, FRACP	Director, Nuclear Medicine	paediatric nuclear medicine
Dr David Macfarlane	MBBS, FRACP	Deputy Director, Nuclear Medicine; Director, Specialised PET Services Queensland	radionuclide therapy, positron emission tomography (PET)
Dr Aravind Ravi Kumar	MBBS, FRACP	Senior Staff Specialist	nuclear cardiology, nuclear oncology, training and education
Dr Frank Fiumara	MBBS, FRACP, MBA	Senior Staff Specialist	PET, paediatric nuclear medicine
Dr Paul Thomas	BMed, FRACP	Assistant Director, Specialised PET Services Queensland	neuro-oncology imaging, kinetic analysis of PET tracers
Dr Marissa Bartlett	PhD (Physics), MACPSEM	Senior Medical Physicist	radiation safety, nuclear medicine and PET radio isotope imaging
Dr Matthew Griffiths	PhD (Medical Physics), MACPSEM	Director of Medical Physicists	cyclotron production of radioisotopes, medical imaging of radioisotopes
Dr Jye Smith	PhD (Medical Physics), MACPSEM	Senior Medical Physicist	computer processing of medical images, radio isotope production
Bruce Wallace	MAppSc (Medical Physics)	Medical Physicist	radiation safety
Dr Stephen Taylor	PhD (Synthetic Organic Chemistry)	PET Radiochemist	radiopharmaceutical chemistry, PET radiopharmaceutical development
Ross Vecchio	BSc (Chem)	Radiochemist	quality control systems
Sandra Kemp	General Nursing	Clinical Nurse Consultant; Study Coordinator (Nursing)	oncology, neurology
Natalie Fletcher	BNursing	Clinical Nurse; Research Nurse	oncology
Travis Pearson	BAppSci (NMT), MBA	Director, Nuclear Medicine Technology	multi-modality imaging
Louise Campbell	BAppSci (NMT), GradDipBusAdmin	Director, PET Technology	multi-modality imaging
Peter Garcia	BAppSci (NMT), MHlthSci	Senior Nuclear Medicine Scientist	multi-modality imaging
Nikki-Louise Scott	BSc (Hons) (BiomedSci), GradDip (NMT)	Nuclear Medicine Scientist	multi-modality imaging
Sarah Frecker	BAppSci (NMT)	Nuclear Medicine Scientist	multi-modality imaging
Rowena Rose	BAppSci (NMT)	Nuclear Medicine Scientist	multi-modality imaging

Supervised post-graduate students

Name	Current studies	Research topic
Dancewicz, O.	Master of Applied Science (Medical Physics)	3D printing of imaging phantoms

Awards and achievements

Award	Event	Name
2012 ANZAPNM Registrar Award	ANZSNM Annual Scientific Meeting	Bhatt, M.K.

Publications

Bhatt M, Ravi Kumar A. FDG PET/CT appearance of benign Pilomatricoma. Clin Nucl Med. 2012;37(7):684-6.

Fay, M and Thomas, P. Functional imaging using PET and radiotherapy planning. Cancer Forum. 2012;36:77-79.

Lee J, Hartnett G, Ravi Kumar A. Lesion Location in Clinical Significance of Incidental Colorectal FDG Uptake (letter). Clin Endosc. 2012;45(4):451-2

Lee J, Hartnett G, Ravi Kumar A. Timely investigation of incidental focal colorectal FDG uptake (letter). Colorectal Dis. 2012;14(7):897-8.

Ravi Kumar A, Hartnett G, Lee J. FDG-avid lesions on PET scans without corresponding pathological findings (letter). J Gastroenterol. 2012;47(6):726-7.

Huang YT, Ravi Kumar A. Potential for truncation the scan length of restaging FDG-PET/CT following chemoradiotherapy in head and neck squamous cell carcinoma. Nucl Med Commun. 2012;33(5):503-8.

Lee J, Hartnett G, Ravi Kumar A. Predictive value according to location of incidental focal colorectal fluorodeoxyglucose uptake on positron emission tomography scans (letter). Colorectal Dis. 2012;14(5):642-3.

Nguyen P, Bashirzadeh F, Ravi Kumar A, Fielding D. Optical differentiation between malignant and benign lymphadenopathy by greyscale texture analysis of endobronchial ultrasound convex probe images. Chest. 2012;141(3):709-15.

Pryor D, Porceddu S, Thomas P, Burmeister B. Head and Neck. Economic analysis of FDG-PET – guided management of the neck after primary chemoradiotherapy for node-positive head and neck squamous cell carcinoma. Published on-line first May 2012. PMID:22987812 DOI 10.1002/hed.23108.

Smith J, Bartlett M, Thomas P. Histogram matching for the generation of ventilation-perfusion difference images in SPECT lung scanning: A phantom study. Medical Physics. 2012;39:3026-3030 PMID:22755687 DOI:10.1118/1.4712220.

Palliative Care Service



Dr Carol Douglas
Clinical Director,
Palliative Care

Overview

The Palliative Care Service provides a consultative model of care to any patient at RBWH with progressive life-limiting disease. Patients with progressive malignancy or chronic disease and acute onset life limiting illness are referred when there are unmet complex needs.

The team is comprised of Staff Specialists in Palliative Medicine, a basic Medical Registrar, Advanced Trainee Palliative Medicine and Clinical Nurses.

Approximately 900 patients received care supported by the Palliative Care Service in 2012, with 260 patients dying with service support in this period.

There is no funded, dedicated research position within the service.

The service supports research initiatives generated externally by collaborating with leading researchers in palliative medicine and palliative care, through recruitment of RBWH patients to medication studies and by participation in studies through collaboration with colleagues at RBWH/ UQ/QUT that contribute to the understanding of patients' experiences with progressive life-limiting disease at the end-of-life.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Carol Douglas	MBChB, FRACGP, FACHPM, Dip Family Med, Dip Palliative Med	Clinical Director, Palliative Care; Senior Staff Specialist,	pain medicine, Motor Neurone Disease, renal disease

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Connell, S., Douglas, C.	Achieving needs-based end-of-life services: A prospective, longitudinal study of pathways for advanced cancer patients (multi-site research)	Cancer Council Queensland Research Project Grant	\$100,000	2012-2013
Mitchell, G., Douglas, C.	Single patient multiple cross-over trials to determine the efficacy of pilocarpine in relieving dry mouth in patients with cancer (multi-site research)	Cancer Council Queensland Research Project Grant	\$163,000	2010-2012

Department of Pharmacy



Assoc. Prof. Ian Coombes
Director, Pharmacy

Overview

The Department of Pharmacy continues to develop its research portfolio and the department has had a hugely successful year. We have published 42 peer-reviewed articles, many in high-impact factor journals. We are aiming to increase the number of staff publishing as well as the number of papers published and look forward to delivering on this in future years. We are also proud of the extensive number of collaborators that we have published with which includes authors from many institutions across many countries.

We have been very successful in our grant applications. This includes an NHMRC Project Grant and a NHMRC Career Development Fellowship. Our Conjoint Research Pharmacist, Dr Karen Whitfield, has formally joined the department and working on three research higher degree projects within Women's and Newborn Services.

Our presentations and other contributions to conferences has also increased in 2012. Our research team has established a strong framework for converting our studies into conference-level publications with plans to further develop this into journal publications as our research system further develops. Our invited presentations to conferences is quite impressive with approximately 10 invited presentations at international conferences for our research team in 2012. These conferences include world leading pharmacy practice, critical care and infectious diseases conferences.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Ian Coombes	BPharm, PhD	Director, Pharmacy	medication safety, pharmacy practice
Dr Michael Barras	BPharm, PhD	Assistant Director (Clinical)	medication safety, pharmacokinetics, therapeutic drug monitoring
Margie Butnoris	BPharm	Assistant Director (Inventory)	pharmacy practice
Dr Jason Roberts	BAppSc, BPharm (Hons I), PhD	Consultant Pharmacist	pharmacokinetics, drug therapy in critically ill patients, therapeutic drug monitoring
Dr Lesley Ross-Lee	BPharm, PhD	Senior Pharmacist, Clinical Trials	clinical trials
Jessica Toleman	BPharm	Assistant Director, Cancer Care Services	quality use of medicines
Kelly Mulvogue	BPharm	Senior Pharmacist	clinical therapeutics, pharmacy practice
Neil Cottrell	BPharm	Hon. Research Consultant	clinical therapeutics, pharmacy practice
Assoc. Prof. Jennifer Martin	MBBS, PhD	Clinical Pharmacology; Staff Specialist	clinical therapeutics, therapeutic drug monitoring
Dr Paul Kubler	MBBS	Clinical Pharmacology; Staff Specialist	clinical therapeutics
Elizabeth Doran	MPharm	Senior Pharmacist	clinical therapeutics
Carla Dawson		Pharmacy Technician	pharmacy practice
Champika Patullo	BPharm	QUM Pharmacist	quality use of medicines
Julia Holman	BPharm	QUM Pharmacist	quality use of medicines
Midori Nakagaki	BPharm	Senior Pharmacist, Cancer Care	clinical therapeutics
Jonathan Hall	BPharm	Clinical Pharmacist	clinical therapeutics
Serena Rofail	BPharm	Senior Pharmacist	clinical therapeutics
Julian Lindsay	BPharm	Clinical Pharmacist	clinical therapeutics
Brooke Myers	BPharm	Senior Pharmacist	clinical therapeutics
Deborah Boland	BPharm	Senior Pharmacist	medicines information
Helen Trenerry	BPharm	Assistant Director, Medicines Information Service	medicines information
Mary Tredinnick	BPharm	Senior Pharmacist	clinical therapeutics
Erin O'Donnell	BPharm	Clinical Pharmacist	clinical therapeutics
Kate Murphy	BPharm	Senior Pharmacist	clinical therapeutics
Else Peusschers	BPharm	Senior Pharmacist	clinical therapeutics in mental health

Supervised post-graduate students

Name	Current studies	Research topic
Mulvogue, K.	MPhil	Improving prescribing in geriatric patients
Patel, B.	MPhil	Characteristics of blood stream infections in burn injury patients: A ten year retrospective study at RBWH
Adnan, S.	PhD	Pharmacokinetics of commonly prescribed antibiotic in critically ill patients with indwelling surgical drains and with multi-drug resistant acinetobacter spp infections
Varghese, J.	PhD	Dose optimisation of antibiotics in different forms of renal replacement therapy
Kaur, S.	PhD	Improving drug utilisation in Australian aged care facilities
Mawbey, I.	MCP	Does a vancomycin prescribing protocol reduce the prescription of linezolid for patients with infections caused by multi-resistant Gram positive organisms such as methicillin-resistant Staphylococcus aureus?
Wong, G.	MPhil	BeTM Study: A multi-centre study to evaluate the outcome of empiric dosing of beta-lactam antibiotics in reaching pharmacodynamic targets and utility of therapeutic drug monitoring programme in critically ill patients
Hanrahan, T.	MPhil	Vancomycin nephrotoxicity in critically ill patients: fact or fiction?
Sinnollareddy, M.	PhD	Using pharmacokinetics and pharmacodynamics to optimise dosing of antifungal agents in critically ill patients
Sime, F.	PhD	Does beta-lactam pharmacokinetic variability in critically ill patients justify therapeutic drug monitoring?
Jamal, J-A.	PhD	Improving antibiotic dosing in special situations in the ICU: burns, renal replacement therapy and extracorporeal membrane oxygenation
Abdul-Aziz, MH.	PhD	Continuous infusion vs. bolus dosing: implications for beta-lactam antibiotics
Parker-Scott, S.	PhD	Revitalising an old drug: saving critically ill patients with resistant infections with fosfomycin
Economou, C.	PhD	The pharmacokinetics of vancomycin, meropenem and piperacillin-tazobactam in critically ill patients undergoing sustained low-efficiency dialysis (SLED)

Awards and achievements

Award	Event	Name
Young Pharmacist of the Year Award, Pharmaceutical Society of Australia		Myers, B.
Australian Clinical Pharmacy Award, Society of Hospital Pharmacists of Australia		Roberts, J.A.
David Neville Prize for 'Therapeutic drug monitoring of beta-lactam antibiotics in burns patients: A one year prospective study.'	2012 Royal Australian College of Surgeons Annual Scientific Meeting, North Stradbroke Island	Roberts, J.A.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Ho, K.M., Corcoran, T., Lipman, J., Roberts, J., Barden, A., Mori, T.	Determinants of urinary output response to intravenous frusemide in patients with acute kidney injury	ANZCA 13/004	\$38,300	2012-2013
Lipman J, Roberts J, Paratz J, Paterson D, Fraser J	Pharmacokinetic studies in critically ill patients	UQ NHMRC Equipment and Infrastructure	\$310,000	2012
Lipman J, Roberts J	BLING II	Baxter Unrestricted grant	\$40,000	2012-2013

Publications

- Abbott IJ, Roberts JA. Infusional β -lactam antibiotics in febrile neutropenia: has the time come? *Curr Opin Infect Dis*. 2012;25(6):619-25.
- Abdul-Aziz MH, Dulhunty JM, Bellomo R, Lipman J, Roberts JA. Continuous beta-lactam infusion in critically ill patients: The clinical evidence. *Ann Intensive Care*. 2012;2(1):37.
- Adnan S, Paterson DL, Lipman J, Kumar S, Li J, Rudd M, Roberts JA. Pharmacokinetics of beta-lactam antibiotics in patients with intra-abdominal disease: a structured review. *Surg Infect (Larchmt)*. 2012;13(1):9-17.
- Briscoe SE, McWhinney BC, Lipman J, Roberts JA, Ungerer JPI. A method for determining the free (unbound) concentration of ten beta-lactam antibiotics in human plasma using high performance liquid chromatography with ultraviolet detection. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2012;907:178-84.
- Carlier MF, Stove V, Roberts JA, Van de Velde E, De Waele JJ, Verstraete AG. Quantification of seven β -lactam antibiotics and two β -lactamase inhibitors in human plasma using a validated UPLC-MS/MS method. *Int J Antimicrob Agents*. 2012;40(5):416-22.
- Coombes I, Kirsa S, Dowling H, Galbraith K, Duggan C, Bates I. Advancing pharmacy practice in Australia: The importance of national and global partnerships. *J Pharm Pract Res*. 2012;42(4):261-3.
- Dhanani J, Roberts JA, Lipman J. Antibiotic therapy of pneumonia in critical care. *Curr Resp Med Rev*. 2012;8:228-238.
- Doran E, Iedema J, Ryan L, Coombes I. Drug Interactions: Fatal rhabdomyolysis following voriconazole and simvastatin. *Aust Prescr*. 2012;35(3):88-9.
- Fraser JF, Shekar K, Diab S, Dunster K, Foley SR, McDonald CI, Passmore M, Simonova G, Roberts JA, Platts DG, Mullany DV, Fung YL. ECMO – the clinician's view. *ISBT Science Series*. 2012; 7:82–88.
- Hale A, Stowasser D, Coombes I, Stokes J, Nissen L. An evaluation framework for non-medical prescribing research. *Aust Health Rev*. 2012;36:224-228.
- Jamal JA, Economou CJ, Lipman J, Roberts JA. Improving antibiotic dosing in special situations in the ICU: Burns, renal replacement therapy and extracorporeal membrane oxygenation. *Curr Opin Crit Care*. 2012;18(5):460-71.
- Iedema J, Barras M, Sundac L, Coombes I. Dabigatran: A new safe drug to replace an old poison? *Aust Prescr*. 2012;35(2):64-5.
- Kaur S, Roberts JA, Roberts MS. Evaluation of medication-related problems in medication reviews: a comparative perspective. *Ann Pharmacother*. 2012;46(7-8):972-82.
- Li J, Udy AA, Kirkpatrick CM, Lipman J, Roberts JA. Improving vancomycin prescription in critical illness through a drug use evaluation process: a weight-based dosing intervention study. *Int J Antimicrob Agents*. 2012;39(1):69-72.
- Martin J, Norris R, Barras M. Gentamicin Use: More clinical outcome evidence needed. *J Clin Toxicol*. 2012;2:8.
- Martin J, Barras M, Ah Yui N, Kirkpatrick C, Kubler P, Norris R. Gentamicin monitoring practices in teaching hospitals: Time to undertake the necessary randomised controlled trial. *J Clin Toxicol*. 2012;2:8.
- Myers B. Changes to Pharia Classification System. On behalf of the Qld Early Career Pharmacists Group of the Pharmaceutical Society of Australia. *Aust Pharm J*. November 2012.
- Myers B. OTC Supply of Codeine-Combination Analgesics. On behalf of the Queensland Early Career Pharmacists Group of the Pharmaceutical Society of Australia. *Aust Pharm J*. December 2012.
- Mohd Hafiz AA, Staatz CE, Kirkpatrick CM, Lipman J, Roberts JA. Continuous infusion vs. bolus dosing: Implications for beta-lactam antibiotics. *Minerva Anesthesiol*. 2012;78(1):94-104.
- Patel BM, Paratz JD, Mallett A, Lipman J, Rudd M, Muller MJ, Paterson DL, Roberts JA. Characteristics of bloodstream infections in burn patients: An 11-year retrospective study. *Burns*. 2012;38(5):685-90.
- Patel BM, Paratz J, See NC, Muller MJ, Rudd M, Paterson D, Briscoe SE, Ungerer J, McWhinney BC, Lipman J, Roberts JA. Therapeutic drug monitoring of beta-lactam antibiotics in burns patients: A one-year prospective study. *Ther Drug Monit*. 2012;34(2):160-4.
- Roberts DM, Roberts JA, Roberts MS, Liu X, Nair P, Cole L, Lipman J, Bellomo R; RENAL Replacement Therapy Study Investigators. Variability of antibiotic concentrations in critically ill patients receiving continuous renal replacement therapy: A multicentre pharmacokinetic study. *Crit Care Med*. 2012;40(5):1523-8.
- Roberts JA, De Waele JJ, Dimopoulos G, Koulenti D, Martin C, Montravers P, Rello J, Rhodes A, Starr T, Wallis SC, Lipman J. DALI: Defining antibiotic levels in intensive care unit patients: A multi-centre point of prevalence study to determine whether contemporary antibiotic dosing for critically ill patients is therapeutic. *BMC Infect Dis*. 2012;12(1):152.
- Roberts JA, Joynt GM, Choi GY, Gomersall CD, Lipman J. How to optimise antimicrobial prescriptions in the Intensive Care Unit: Principles of individualised dosing using pharmacokinetics and pharmacodynamics. *Int J Antimicrob Agents*. 2012;39(3):187-92.
- Roberts JA, Lipman J. Editorial commentary: Closing the loop: A colistin clinical study to confirm dosing recommendations from PK/PD modeling. *Clin Infect Dis*. 2012;54(12):1727-9.
- Roberts JA. Australian Clinical Pharmacy Award Oration. *J Pharm Pract Res*. 2012;42(4):298-300.
- Roberts JA, Norris R, Paterson DL, Martin JH. Therapeutic drug monitoring of antimicrobials. *Br J Clin Pharmacol*. 2012;73(1):27-36.

Publications

Rutter V, Wong C, Coombes I, Cardiff L, Duggan C, Yee M, Lim K, Bates I. Use of a general level framework to facilitate performance improvement in hospital pharmacists in Singapore. *Am J Pharm Educ*. 2012;76(6):107.

Shekar K, Fung YL, Diab S, Mullany DV, McDonald CI, Dunster KR, Fisquet S, Platts DG, Stewart D, Wallis SC, Smith MT, Roberts JA, Fraser JF. Development of simulated and ovine models of extracorporeal life support to improve understanding of circuit-host interactions. *Crit Care Resus*. 2012;14(2):105-11.

Shekar K, Roberts JA, Mullany DV, Corley A, Fisquet S, Bull TN, Barnett AG, Fraser JF. Increased sedation requirements in patients receiving extracorporeal membrane oxygenation for respiratory and cardiorespiratory failure. *Anaesth Intensive Care*. 2012;40(4):648-55.

Sime FB, Roberts MS, Peake SL, Lipman J, Roberts JA. Does beta-lactam pharmacokinetic variability in critically ill patients justify therapeutic drug monitoring? A Systematic Review. *Ann Intensive Care*. 2012;2(1):35.

Sinnollareddy M, Peake SL, Roberts MS, Lipman J, Roberts JA. Using pharmacokinetics and pharmacodynamics to optimise dosing of antifungal agents in critically ill patients: a systematic review. *Int J Antimicrob Agents*. 2012;39(1):1-10.

Sinnollareddy MG, Roberts MS, Lipman J, Roberts JA. β -lactam pharmacokinetics and pharmacodynamics in critically ill patients and strategies for dose optimisation: a structured review. *Clin Exp Pharmacol Physiol*. 2012;39(6):489-96.

Smith NL, Freebairn R, Park M, Wallis SC, Roberts JA, Lipman J. The need for therapeutic drug monitoring when using cefepime in CRRT: Seizures associated with cefepime. *Crit Care Resus*. 2012;14(4):312-5.

Shekar K, Roberts JA, McDonald CI, Fisquet S, Barnett AG, Mullany DV, Ghassabian S, Wallis SC, Fung YL, Smith MT, Fraser JF. Sequestration of drugs in the circuit may lead to therapeutic failure during extracorporeal membrane oxygenation. *Crit Care*. 2012; 16(5):R194.

Shekar K, Roberts JA, Welch S, Buscher H, Rudham S, Burrows F, Ghassabian S, Wallis SC, Levkovich B, Pellegrino V, McGuinness S, Parke R, Barnett AG, Walsham J, Mullany DV, Smith MT, Fraser JF. ASAP ECMO: Antibiotic, Sedative and Analgesic Pharmacokinetics during Extracorporeal Membrane Oxygenation: A multi-centre study to optimise drug therapy during ECMO. *BMC Anesthesiol*. 2012 28;12(1):29.

Shekar K, Fraser JF, Smith MT, Roberts JA. Pharmacokinetic changes in patients receiving extracorporeal membrane oxygenation. *J Crit Care*. 2012;27(6):741.

Udy AA, Varghese JM, Altukroni M, Briscoe S, McWhinney BC, Ungerer JP, Lipman J, Roberts JA. Subtherapeutic initial β -lactam concentrations in select critically ill patients: Association between augmented renal clearance and low trough drug concentrations. *Chest*. 2012;142(1):30-9.

Udy AA, Altukroni M, Jarrett P, Roberts JA, Lipman J. A comparison of pulse contour wave analysis and ultrasonic cardiac output monitoring in the critically ill. *Anaesth Intensive Care*. 2012;40(4):631-7.

Udy AA, Roberts JA, Dewaele JJ, Paterson DL, Lipman J. What's behind the failure of emerging antibiotics in the critically ill? Understanding the impact of altered pharmacokinetics and augmented renal clearance. *Int J Antimicrob Agents*. 2012;39(6):455-7.

Varghese JM, Roberts JA, Wallis SC, Boots RJ, Healy H, Fassett RG, Lipman J, Ranganathan D. Pharmacokinetics of intraperitoneal gentamicin in peritoneal dialysis patients with peritonitis (GIPD Study). *Clin J Am Soc Nephrol*. 2012;7(8):1249-56.

Department of Renal Medicine



Dr Helen Healy
Director, Renal Medicine

Overview

Renal medicine has continued to build substantial research productivity with a strong focus on investigator-initiated research. There has been outstanding progress of the CKD.QLD collaboration, a statewide Queensland Health, and The University of Queensland (UQ) Centre for Chronic Disease, initiative lead by Professors Wendy Hoy and Robert Fassett. This collaboration is undertaking internationally recognised CKD research and is aiming to fill a longstanding void in CKD knowledge.

Renal Medicine is also leading palliative care research in Australia in collaboration with other national leaders. Nursing-led research is gaining strength through Professor Anne Bonner from QUT, who holds a Fellow appointment in the Professorial Renal Research Nursing Unit.

There has been an increased number of research presentations at National and International meetings with an outstanding contribution from Drs Helen Healy and Ray Wilkinson through a prestigious oral presentation of the work of the Kidney Research Laboratory at the Annual Scientific Meeting of the American Society of Nephrology in San Diego in November 2012.

Renal research has been bolstered by the appointment of Professor Keshwar Baboolal, a nephrologist, initially as Internal Medicine Executive Director and subsequently as interim Executive Director, RBWH.

Renal medicine researchers also perform high-level research manuscript and national and international research grant reviews. There has been increased focus on research metrics with targets set to publish in high impact factor scientific journals. Ongoing mentoring of junior researchers has been recognised and Dr Andrew Mallet an advanced trainee in Nephrology was awarded a prestigious Churchill Fellowship to study kidney genetic disorders internationally. He will start a PhD in Renal Research at RBWH in 2013. Dr Andrew Kassianos, an early career researcher, commenced his Patty Dukes Post-doctoral Fellowship, awarded by the RBWH Foundation for the years 2013-2015 inclusive, in the Kidney Research Laboratory.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Robert Fassett	BMedSc, MBBS, PhD FRACP, FASN	Director, Renal Research; Pre-eminent Staff Specialist	chronic kidney disease, clinical trials, oxidative stress and inflammation, exercise, astaxanthin, omega-3 polyunsaturated fatty acids, cardiovascular disease, palliative care, statins, sulphoraphane
Dr Helen Healy	MBBS, PhD, FRACP	Director, Renal Medicine; Eminent Staff Specialist	mechanisms of progression of chronic kidney disease, dendritic cells, polycystic kidney disease, genome in kidney disease
Dr Dwaraka Ranganathan	MD, DM, FRCP, FRACP	Senior Staff Specialist	peritoneal dialysis, clinical trials, antibiotics, vasculitis, home dialysis therapies, pharmacokinetics and pharmacodynamics
Dr Adrian Kark	MBChB, FRACP	Senior Staff Specialist	chronic kidney disease, salt
Dr Vincent D'Intini	MBBS, FRACP	Senior Staff Specialist	acute kidney injury
Dr George T John	MBBS, FRACP	Senior Staff Specialist	immunosuppression, kidney transplantation, infectious diseases
Dr Sharad Ratanjie	MBChB, FRACP	Senior Staff Specialist	haemodialysis, erythropoietin stimulating agents
Dr Ray Wilkinson	AssocDMedTech, BSc (Hons), PhD	Post-doctoral Fellow, Kidney Research Laboratory	dendritic cells, innate immunity, T/B lymphocytes
Dr Andrew Kassianos	BSc (Hons), Master (Biotech), PhD	Post-doctoral Fellow, Kidney Research Laboratory	dendritic cell biology in the kidney, innate immunity, T/B lymphocytes
Dr Sree Krishna Venuthurupalli	MBBS, FRACP	PhD student	chronic kidney disease, CKD.QLD, registry
Xiangju Wang	MSc	Research Scientist, Kidney Research Laboratory	cell senescence, laser capture microscopy, multiplex tandem PCR
Prof. Ann Bonner	BAppSc (Nurs), MA PhD	Professor, Renal Nursing, QUT	chronic kidney disease, Nursing practice Adherence to therapies
Danielle Heffernan	RN, GradDipHealthMg, MSF	Assistant Nursing Director, Renal Medicine	renal supportive care

Research staff

Name	Qualifications	Position	Interests/specialties
Sonya Coleman	MNP	Chronic kidney disease	chronic kidney disease
Lesley Williams	RN	Home Independent Dialysis and Transition Services	peritoneal and home dialysis, motivational interviewing, self care
Nicola Williams	RN	Home, Independent dialysis and Transition Services	peritoneal and home dialysis, motivational interviewing, self care
Margaret Jacks	RN	Renal Transplant Coordinator	renal transplantation
Caroline Shelverton	RN	Renal Transplant Coordinator	renal transplantation
Julie Owens	BN	Renal Transplant Coordinator, Home, Independent Dialysis and Transition Services	renal transplantation, home therapies
Tony Blinkhorn	BN	Haemodialysis	haemodialysis
Rebecca Russo	BN	Chronic kidney disease	chronic kidney disease
Anne Salisbury	RN	Executive Coordinator, CKD.QLD	chronic kidney disease, registry
Julie Kirby	RN	Clinical Trial Coordinator	clinical trials
Ursula Sanderson	BN	Clinical Trial Coordinator	clinical trials
Ritza Driver	RN, MSc (Echocardiography)	Research Technician	cardiovascular measurements
Belinda Morey	BHlthSc (NutrDiet), Hons, BAppSc (HMS), Hons	Senior Dietitian, Nutritionist	salt in chronic kidney disease
Tania Whitlock		Administrative Officer	renal research
Elisabeth Hamernik		Clinical Psychologist	adherence to therapies, depression

Supervised post-graduate students

Name	Current studies	Research topic
Matsumoto, A.	PhD	Effects of exercise training and antioxidant supplementation on endothelial cell gene expression
Houghton, C.	PhD	Effects of sulphorophane on kidney function in CKD patients with Type 2 Diabetes
Alasmari, H.	PhD	Examining intensive care nurses' clinical decision-making associated with acute kidney injury and continuous renal replacement therapy
Almutary, H.	PhD	Exploring symptom clusters in people with chronic kidney disease
Sampangi, S.	PhD	The role of renal proximal tubular epithelial cells (PTEC) In autologous immune-modulation
Krishna Venuthurupalli, S	PhD	CKD.QLD
Thepha, T	PhD	Self-management program in people with chronic kidney disease stage four in north-east Thailand
He, W.	PhD	Exploring the factors associated with concordance with lifestyle modifications in Chinese people with hypertension
Afrin, S.	Masters	A novel three-dimensional in vitro model to study immune cell and renal cell interactions
Hayes, B.	DHlthSc	Job satisfaction, stress and burnout in haemodialysis nurses
Clarke, C.	DHlthSc	The use of alcohol and its influence on injury severity score, outcome and treatment after major trauma

Awards and achievements

Award	Event	Name
Patty Dukes Post-doctoral Fellowship, RBWH Foundation		Kassianos, A.
Best Research Paper	2012 Renal Society of Australasia Conference	Bonner, A.
Best Advanced Paper	2012 Renal Society of Australasia Conference	Bonner, A.
Masters Strategic Foresight, Swinburne University		Heffernan, D.
Masters Advanced Practice Nurse (Renal), James Cook University		Berquier, I.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Ranganathan, D.	POEMSLUN study	Novartis	\$109,760	2011-2012
Healy, H.	Dendritic cell subsets in inflammation in chronic kidney disease	RBWH Private Practice Trust Fund	\$23,000	2012
Healy, H.	Royal Brisbane and Women's Hospital Foundation Fellowship Renal Conjoint Laboratory	RBWH Foundation	\$240,000	2012-2015
Fassett, R.G., Johnson, D.J. et al	A randomised, placebo-controlled trial of Oxpentifylline versus placebo in the treatment of erythropoietin-resistant anemia in chronic kidney disease	NHMRC Project Grant	\$333,408.80	2011-2012
Fassett, R.G., Coombes, J.S.	A metabolic testing suite for clinical exercise physiology, sports science and sports nutrition research	The University of Queensland	\$159,325	2011-2012
Ranganathan, D.	Timely Peritoneal Dialysis Trial	Baxter Clinical Excellence Commission	\$30,000	2010-2012
Fassett, R.G., Coombes, J.S.	Effects of astaxanthin on oxidative stress and inflammation and vascular function in renal transplant patients	RBWH Foundation	\$25,000	2009-2012
Fassett, R.G., Shing, C., Coombe, J.S.	Premature cell aging	Clifford Craig Medical Research Trust	\$6273	2011-2012
Fassett, R.G., Coombes, J.S.	COMIVID Study	Baxter Clinical Excellence Commission	\$75,000	2011-2013
Fassett, R.G., Houghton, C., Coombes, J.S.	The effects of Sulforaphane on the antioxidant response element and arterial stiffness in patients with Type 2 Diabetes	RBWH Research Grant	\$30,000	2012
Fassett, R.G., Hoy, W.	CKD Queensland	AMGEN Australia	\$500,000	2010-2013

Publications

Alexander S, Varughese S, David VG, Kodgire SV, Mukha RP, Kekre NS, Tamarasi V, Jacob CK, John GT. Extensive emphysematous pyelonephritis in a renal allograft treated conservatively: Case report and review of the literature. *Transpl Infect Dis*. 2012 Dec;14(6):E150-5.

Baboolal K, Griffiths JD, Knight VA, Nelson AV, Voake C, Williams JE. How efficient can an emergency unit be? A perfect world model. *Emerg Med J*. 2012 Dec;29(12):972-7.

Blinkhorn, T. Telehealth and nephrology health care: A review of the literature. *Renal Society of Australasia Journal*. 2012;8(3): 132-139.

Bonner A. Nursing assessment: Urinary system: Lewis's medical-surgical nursing. In Brown D, Edwards H. (Eds.) (3rd ed) 2012:1226-1248. Elsevier: Sydney.

Bonner A. Nursing management: Renal and urologic problems: Lewis's medical-surgical Nursing In Brown D, Edwards H. (Eds.) (3rd ed) 2012:1249-1291. Elsevier: Sydney.

Bonner A. Nursing management: Acute kidney injury and chronic kidney disease: Lewis's medical-surgical nursing. In Brown D, Edwards H, (Eds.) (3rd ed) 2012:1292-1333. Elsevier: Sydney.

Publications

- Bonner A. Other chronic illness. In Mauk KL (Eds.). *Rehabilitation nursing: A contemporary approach to practice*. Jones and Bartlett: Sudbury. ISBN: 978-1-4496-3447-6. 2012;359-372.
- Bonner A, Lloyd AM. Exploring the information practices of people with end stage kidney disease. *Journal of Renal Care*. 2012;38(3):124-130.
- Bonner A, Pryor J. Working in multidisciplinary teams: A nursing perspective. In Ricciardelli L, Caltabiano M. (Eds.). *Applied topics in health psychology*. 2012;495-504. Wiley-Blackwell: Oxford.
- Boudville N, Kemp A, Moody H, Fassett RG, Pedagogos E, Nelson C, Healy H, Mangos G, Kirkland G, Kay T, Champion De Crespigny P, Hoffman D, Waugh D and on behalf of eKiDNA Factors associated with CKD progression in Australian Nephrology practices. *Nephron Clin Pract*. 2012 Oct;121(1):c36-c41.
- Chacko B, John GT. Leflunomide for cytomegalovirus: bench to bedside. *Transpl Infect Dis*. 2012 Apr;14(2):111-20.
- Chiramel GK, Keshava SN, Tamilarasi N, John GT. Is liver biopsy safe in patients with chronic renal disease? *Indian J Gastroenterol*. 2012 Sep. Epub.
- Coombes JS, Fassett RG. Antioxidant therapy in haemodialysis patients *Kidney Int*. 2012 Feb;81(3):233-46.
- Crawford A, Fassett RG, Coombes JS, Kunde DA, Ball MJ, Geraghty DP. Relationship between antioxidant enzyme genotype and activity and kidney function: A case-control study. *Clinical Nephrology*. 2012 Aug;78(2):135-44.
- Crawford A, Fassett RG, Geraghty DP, Kunde DA, Ball MJ, Robertson IK, Coombes JS. Antioxidants activity and specific single nucleotide polymorphisms and diseases review in CKD baseline here. 2012 Jun;501(2):89-103.
- Duiveman T, Bonner A. Negotiating: Experiences of community nurses when contracting with clients. *Contemporary Nurse Journal*. 2012;41(1):120-125.
- Dywili S, Bonner A, Anderson J, O'Brien L. Experiences of overseas trained health professionals in rural and remote areas of destination countries. *Australian Journal of Rural Health*. 2012;20(4):175-184.
- EVOLVE Trial Investigators Effect of cinacalcet on cardiovascular disease in patients undergoing dialysis. *NEJM*. 2012 Dec;367:2482-94.
- Fassett RG, Coombes JS. Astaxanthin in cardiovascular health and disease molecules. 2012 Feb 20;17(2):2030-48.
- Fassett RG, Robertson IK, Ball MJ, Cardinal J, Geraghty DP and Coombes JS The effect of atorvastatin on NGAL and Cystatin C in chronic kidney disease: The LORD Trial. *Nephrology dialysis and transplantation*. 2012 Jan;27(1):182-9.
- Howden EJ, Fassett RG, Isbel NM, Coombes JS. Exercise training in chronic kidney disease patients sports medicine. 2012 Jun;42(6):473-88.
- Ismail AM, Devakumar S, Anantharam R, Fletcher GJ, Subramani T, John GT, Daniel D, Abraham P. Low-frequency of occult hepatitis B infection in anti-HBc seropositive blood donors: Experience from a tertiary care centre in south India. *Blood Transfus*. 2012 Apr;10(2):230-2.
- Johnson DW, Brown FG, Clarke M, Boudville N, Elias TJ, Foo MW, Jones B, Kulkarni H, Langham R, Ranganathan D, Schollum J, Suranyi MG, Tan SH, Voss D; balANZ Trial Investigators. The effects of biocompatible compared with standard peritoneal dialysis solutions on peritonitis microbiology, treatment, and outcomes: The balANZ trial. *Perit Dial Int*. 2012 Sep-Oct;32(5):497-506.
- Johnson DW, Brown FG, Clarke M, Boudville N, Elias TJ, Foo MW, Jones B, Kulkarni H, Langham R, Ranganathan D, Schollum J, Suranyi MG, Tan SH, Voss D; balANZ Trial Investigators. The effect of low glucose degradation product, neutral pH versus standard peritoneal dialysis solutions on peritoneal membrane function: The balANZ trial. *Nephrol Dial Transplant*. 2012 Dec;27(12):4445-53.
- Johnson DW, Brown FG, Clarke M, Boudville N, Elias TJ, Foo MW, Jones B, Kulkarni H, Langham R, Ranganathan D, Schollum J, Suranyi M, Tan SH, Voss D; balANZ Trial Investigators effects of biocompatible versus standard fluid on peritoneal dialysis outcomes. *J Am Soc Nephrol*. 2012 Jun;23(6):1097-107.
- Kassianos AJ, S Sampangi, X Wang, KE Roper, K Beagley, H Healy, R Wilkinson. Human proximal tubule epithelial cells modulate autologous dendritic cell function. *Nephrology Dialysis and Transplantation*. 2012 Epub.
- Kolade OO, O'Moore-Sullivan TM, Stowasser M, Coombes JS, Fassett RG, Marwick T and Sharman JE Arterial stiffness, central blood pressure and body composition in health and disease *International Journal of Obesity*. 2012 Jan;36(1):93-9.
- Koshy A, Bull R, Robertson I, Youl L, Mace R, Challenor S, Fassett RG. Contrasting approaches to end-of-life and palliative care in end stage kidney disease. *Indian Journal of Nephrology*. 2012 July;22(4):307-9.
- Mallett A, John GT, Ranganathan D, Kark A, Berquier I, Casey J, Healy H, Francis L. Sustained remission of systemic lupus erythematosus related calciphylaxis. *Lupus*. 2012 Apr;21(4):441-4.
- Matsumoto A, Manthey HD, Marsh SA, Fassett RG, de Haan J, Rolfe B, Coombes JS Effects of exercise training and RhoA/ROCK inhibition on plaque pathway in ApoE(-/-) mice *International Journal of Cardiology*. 2012 Apr:
- Matsumoto A, Mason S, Flatscher-Bader T, Ward LC, Marsh SA, Wilce PA Fassett RG, Coombes JS Effects of Exercise and Antioxidant Supplementation on Endothelial Cell Gene Expression *International Journal of Cardiology*. 2012 Jun;158(1):59-65.

Publications

- Mohapatra A, Basu G, Sen I, Asirvatham R, Michael JS, Pulimood AB, John GT. Tuberculosis in a renal allograft recipient presenting with intussusception. *Indian J Nephrol*. 2012 Jan;22(1):52-6.
- Morris MI, Daly JS, Blumberg E, Kumar D, Sester M, Schluger N, Kim SH, Schwartz BS, Ison MG, Humar A, Singh N, Michaels M, Orlowski JP, Delmonico F, Pruett T, John GT, Kotton CN. Diagnosis and management of tuberculosis in transplant donors: A donor-derived infections consensus conference report. *Am J Transplant*. 2012 Sep;12(9):2288-300.
- Neri L, McEwan P, Sennfalt K, Baboolal K. Characterizing the relationship between health utility and renal function after kidney transplantation in UK and US: a cross-sectional study. *Health Qual Life Outcomes*. 2012 Nov;10:139.
- Ostini F, Bonner A. Australian new graduate experiences during their transition program in a rural/regional acute setting. *Contemporary Nurse Journal*. 2012;41(2):242-252.
- Rajapurkar MM, John GT, Kirpalani AL, Abraham G, Agarwal SK, Almeida AF, Gang S, Gupta A, Modi G, Pahari D, Pisharody R, Prakash J, Raman A, Rana DS, Sharma RK, Sahoo RN, Sakhuja V, Tatapudi RR, Jha V. What do we know about chronic kidney disease in India: First report of the Indian CKD registry. *BMC Nephrol*. 2012 Mar;13:10.
- Ranganathan D, John GT. Nocturnal hemodialysis. *Indian J Nephrol*. 2012 Sep;22(5):323-32.
- Sharman JE, Stowasser M, Kolade OO, Coombes JS, Fassett RG, Marwick TH. Fatness, fitness, stiffness and blood pressure: Response to more fuel in the obesity paradox debate (author reply). *International Journal of Obesity*. 2012;Mar.
- Shing CM, Fassett RG, Brown L, Coombes JS. The effects of immunosuppressants on vascular function, systemic oxidative stress and inflammation in rats *Transpl Int*. 2012 Mar;25(3):337-46.
- Smith SV, Dietsch E, Bonner A. Pregnancy as public property: The experience of couples following diagnosis of a foetal anomaly. *Women and Birth*. 2012 Epub.
- Ting RD, Keech AC, Drury PL, Donoghoe MW, Hedley J, Jenkins AJ, Davis TM, Lehto S, Celermajer D, Simes RJ, Rajamani K, Stanton K, FIELD Study Investigators. Benefits and safety of long-term fenofibrate therapy in people with type 2 diabetes and renal impairment: The FIELD Study *Diabetes Care*. 2012 Feb;35(2):218-25.
- Van KN, Duangpaeng S, Deenan A, Bonner A. Examining the health-related quality of life of people with end-stage kidney disease living in Hanoi, Vietnam. *Renal Society of Australasia Journal*. 2012;8(3):140-145.
- van Rosendal SP, Strobel NA, Osborne MA, Fassett RG, Coombes JS. Performance benefits of rehydration with Intravenous fluid and oral glycerol medicine and science in sports and exercise. 2012;Mar.
- Varghese JM, Roberts JA, Wallis SJ, Boots RJ, Healy H, Fassett RG, Lipman J, Ranganathan D. The need to re-evaluate intraperitoneal gentamicin: Plasma and infection site pharmacokinetics of intraperitoneal gentamicin in peritoneal dialysis patients with peritonitis (GIPD Study). *Clinical Journal of the American Society of Nephrology*. 2012 June;7(8):1249-1256.
- Venuthurupalli SK, Hoy WE, Healy H, Salisbury A and Fassett RG CKD.QLD: Chronic Kidney Disease surveillance and research in Queensland, Australia *Nephrology Dialysis and Transplantation*. 2012;27(Supple 3): iii139–iii145.

Department of Rheumatology



Dr Paul Kubler
Director, Rheumatology

Overview

The Department of Rheumatology provides a comprehensive range of diagnostic and therapeutic services to patients with acute and chronic musculoskeletal disease.

Areas of research interest include management of inflammatory arthritis and anti-phospholipid syndromes, myocardial abnormalities in SLE (investigation with cardiac MRI), clinical research including evaluation of new treatment modalities for rheumatic illness and quality of life and burden of disease of patients with musculoskeletal disease.

The department has a focus on adolescent rheumatology and has established the Young Adults with Rheumatic Disease (YARD) Service for optimising the care of 16-25 year old patients (including transition care) in a multidisciplinary environment.

The department liaises closely with other medical specialties, allied health and community service providers to optimise patient outcomes. In particular, there is a monthly combined renal-rheumatology clinic (vasculitis and SLE) and bi-monthly respiratory-rheumatology service.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Paul Kubler	MBBS, FRACP	Director, Rheumatology	inflammatory arthritis and drug use in rheumatic diseases
Dr Alex Klestov	MBBS, FRACP	Staff Specialist	osteoarthritis, rheumatoid arthritis
Dr Sumant Kevat	MBBS, FRACP	Visiting Specialist	inflammatory arthritis
Dr Michael Gunsberg	MBBS, FRACP	Visiting Specialist	inflammatory arthritis
Dr Lisa Cummins	MBBS	Advanced Trainee	vasculitis
Dr Adam Mair	MBBS	Advanced Trainee	gout
Kellie Stockton	BPthy	PhD candidate	SLE cardiac imaging, fatigue and vitamin D status
Dr Ben Whitehead	MBBS, FRACP	Clinical Fellow	adolescent rheumatology

Publications

Coppieters MW, Schmid AB, Kubler PA and Hodges PW. Description, reliability and validity of a novel method to measure carpal tunnel pressure in patients with carpal tunnel syndrome. *Manual Therapy*. 2012.

Department of Thoracic Medicine



Assoc. Prof. Stephen Morrison
Director, Thoracic Medicine

Overview

PhD titled 'Improving pleural procedures: training and image analysis.' There are five separate studies.

- » The 'Thoracic ultrasound imaging of the intercostal artery' study documents the diagnostic power of ultrasound to visualise the intercostal artery prior to chest drainage procedures by comparing it to computed tomography angiography. This is important as it allows for screening of an 'at risk' intercostal artery before performing a chest drainage procedure.
- » Development of assessment tools for physicians performing thoracic ultrasound titled 'The Ultrasound: Guided skills and tasks assessment test (UGSTAT)', and 'The Chest Tube Insertion Competency Test (TUBE-iCOMPT)'. These studies develop and validate instruments used to assess the competence of a physician at performing thoracic ultrasound and inserting a chest tube. This is important as there has been a global move towards competency-based medical procedural training and the use of ultrasound by chest physicians to guide chest drainage procedures. Before these two studies however there were no tools available to assess the adequacy physician training at thoracic ultrasound or the insertion of a chest tube.
- » Identification of entrapped lung in people with malignant pleural effusion – In a minority of people with malignant pleural effusion, the lung won't re-expand following drainage of the effusion - the lung is 'entrapped'. Although this changes the management options, no methods exist to predict the presence of entrapped lung. This study uses motion analysis of ultrasound images of the patients pleural effusion to predict the presence of entrapped lung prior to pleural effusion drainage.
- » Validation of a new method for performing pleural manometry – This study validates a refined technique for the performance of manometry during drainage of a pleural effusion, which is easier and quicker than the traditional method.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Stephen Morrison	FRACP, PhD	Director, Thoracic Medicine	respiratory medicine
Dr Matthew Salamonsen	MBBS, FRACP	Honourary Staff Specialist	interventional pulmonology
Dr David Fielding	MBBS, MD, FRACP	Staff Specialist	interventional pulmonology
Dr Farzad Bashirzadeh	MBBS, FRACP	Staff Specialist	interventional pulmonology
Dr Geoff Steiler	MBBS	Registrar	radiology
Dr David McGrath	MScApp	Sonographer	ultrasonography
Dr Robert Ware	PhD	Statistician	statistics
Dr Karin Steinke	MD, PhD	Staff Specialist	radiology
Dr Karen Dobeli	PhD	Radiographer	radiology
Dr Craig Readdy	GDipScApp	Sonographer	Ultrasonography

Supervised post-graduate students

Name	Current studies	Research topic
Salamonsen, M.	PhD	Pleural procedures

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Salamonsen, M.	Improving pleural procedures	NHMRC	\$36,000	2012-2014
Salamonsen, M.	Improving pleural procedures	RBWH Foundation	\$26,000	2011-2013

Publications

Salamonsen M, Ellis S, Paul E, Steinke K, Fielding D. Thoracic ultrasound demonstrates variable location of the intercostal artery. *Respiration*. 2012;83(4):323-9.



Medical Imaging Reform Service



Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director
Medical Imaging Reform



Prof. Alan Coulthard
Director, Research



Dr John Clouston
Director, Medical Imaging



Vanessa Clarke
Director, Medical Imaging
Services

Overview

The Department of Medical Imaging actively participates in departmental, interdepartmental and multi-site collaborative research projects. The Department of Medical Imaging Research Office (DMIRO), under the directorship of Professor Alan Coulthard, has been created to provide support for these research projects, and to foster new, mutually beneficial research partnerships.

Research personnel include a Research Development Officer and Research Medical Officer, and in 2012 the DMIRO expanded to include a Research Project Officer position to manage research contracts, revenue generation and research collaborations. Over the last year, DMIRO has expanded its role to include provision of research support to residents and registrars, who are now required by the Royal Australian and New Zealand College of Radiologists to complete two research projects to fulfil their specialty training assessment requirements.

Key achievements over the past year include establishment of 31 new service-based research projects, for which the department provides imaging services and administrative support, bringing this total to 70 active studies. In addition, nine new departmental projects were established, in which residents have become integrally involved, providing them an environment to develop key research skills required for their future progression to the Queensland Radiology Training Program.

Medical Imaging research pursuits have culminated in 11 publications and 11 presentations at national conferences, by consultants, registrars and radiography staff. The future of research in the service line is positive, with a growing involvement in research projects by consultants and registrars, as well as nursing.

Executive and directing staff

Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director, Medical Imaging Reform

Prof. Alan Coulthard
Director, Research

Dr John Clouston
Director, Medical Imaging

Vanessa Clarke
Director, Medical Imaging

Medical Imaging Reform Service

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Alan Coulthard	MBBS, BMedSci, FRCS, FRCR FRANZCR,	Director, Research; Professor, Neuroradiology and Head, UQ Discipline of Medical Imaging	neuroradiology, neuro- intervention
Dr John Clouston	MBBS, FRANZCR	Director, Medical Imaging	interventional radiology
Assoc. Prof. Karin Steinke	MD, MS, PD, FRANZCR	Staff Specialist	thoracic and breast imaging and intervention
Assoc. Prof. Peter Scally	MBBS, FRANZCR	Staff Specialist	medical student education, quality management in radiology, software development to teach critical analysis
Dr Paul Tesar	MBBS, FRANZCR	Staff Specialist	abdominal imaging
Dr Nick Kienzle	MBBS, FRANZCR	Staff Specialist	interventional radiology and abdominal imaging
Dr Craig Hacking	BSc (Biomed), MBBS, FRANZCR	Staff Specialist	imaging and cancer staging
Dr Liam Caffery	BIT, DipAppSci (DiagRad), PhD	Senior Systems Radiographer	picture archiving and communication systems, teleradiology
Dr Nicholas Brown	BSc, MBBS, MPhil, GCSpMed	Radiology Registrar	MSK, interventional radiology, nuclear medicine, sports medicine
Dr Michael Curley	BAppSc, MBBS	Radiology Registrar	neuroradiology research
Dr Justin Oughton	BSc (Hons), MBBS	Research Medical Officer	neuroradiology research, research development
Dr Janelle Thomas	BSc (Hons), PhD	Research Development Officer	research development
Karen Dobeli	MAppSci (MedRadSci), FIR	Senior Radiographer	computed tomography
Marnie Rawle	BAppSci (MedRadSci), MHealthSci	Radiographer	teleradiology
Greg Edwards	BAppSci (Med Imaging)	Radiographer	theatre

Supervised post-graduate students

Name	Current studies	Research topic
Eastgate, N.	Masters	Data security
Oughton, J.	PhD	The relationship of arterial stiffness and resistance to white matter hyperintensity distributions in aging women: The LAW blood flow and brain study
Nguyen, G.	PhD	Perfusion computed tomography in the evaluation of blood-brain barrier disruption in acute ischaemic stroke

Awards and achievements

Award	Event	Name
Radiology Resources Branch of Origin Registrar Research Prize	RANZCR Annual Scientific Meeting	Brown, N.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Scott J	Developing research in radiology	RBWH Private Practice Trust Fund (PPTF)	\$80,000	2010-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Rose, S., Crozier, S., Salvado, O., Coulthard, A., Thomas, P., and Fay M.	Improving assessment of brain tumour treatment outcome using 18F-FDOPA PET MRI	NHMRC	\$637,125	2010-2012
Investigators from multiple disciplines including Coulthard, A., Senior investigators: Rose, S., Macfarlane, D., Slaughter, R.	ACRF Molecular Oncology Translational Imaging Facility	ACRF	\$2,000,000	2012
Taylor, B., van der Mei, I., Lucas, R., Blizzard, C., Coulthard, A., Broadley, S., Williams, D., Shaw, C.	The role of environmental and genetic factors in progression of multiple sclerosis	NHMRC	\$945,084	2012
Clouston, J., Coulthard, A.	Funding of Research Development Officer position	Covidien	\$190,942	2012-2015
Clouston, J., Coulthard, A.	Funding of Research Project Officer position	RBWH PPTF	\$185,957	2012-2014

Publications

Barwood CHS, Murdoch BE, Whelan BM, Lloyd D, Riek S, O'Sullivan JD, Coulthard A, Wong A. Improved receptive and expressive language abilities in non-fluent aphasic stroke patients after application of rTMS: An open protocol case series. *Brain Stimul.* 2012;5(3):274-86.

Curley M, Josey L, Lucas R, Dear K, Taylor BV, Coulthard A. Adherence to MRI protocol consensus guidelines in multiple sclerosis: An Australian multi-centre study. *Journal of Medical Imaging and Radiation Oncology.* 2012;56(6):594-8.

Fielding DI, Chia C, Nguyen P, Bashirzadeh F, Hundloe J, Brown IG, Steinke K. Prospective randomised trial of endobronchial ultrasound-guide sheath versus computed tomography-guided percutaneous core biopsies for peripheral lung lesions. *Internal Medicine Journal.* 2012;42(8):894-900.

Josey L, Curley M, Jafari Mousavi F, Taylor BV, Lucas R, Coulthard A. Imaging and diagnostic criteria for Multiple Sclerosis: Are we there yet? *Journal of Medical Imaging and Radiation Oncology.* 2012;56(6):588-93.

Keogh MJ, Jonas P, Coulthard A, Chinnery PF, Burn J. Neuroferritinopathy: A new inborn error of iron metabolism. *Neurogenetics.* 2012;13(1):93-6.

Patterson IYL, Robertus LM, Gwynne RA, Gardiner RA. Genitourinary tuberculosis in Australia and New Zealand. *BJU International.* 2012;109 Suppl 3:27-30.

Ponsonby AL, Lucas RM, van der Mei IA, Dear K, Valery PC, Pender MP, Taylor BV, Kilpatrick TJ, Coulthard A, Chapman C, Williams D, McMichael AJ, Dwyer T. Offspring number, pregnancy, and risk of a first clinical demyelinating event: The AusImmune Study. *Neurology.* 2012;78(12):867-74.

Rose S, Fay M, Thomas P, Bourgeat P, Dowson N, Salvado O, Gal Y, Coulthard A, Crozier S. Correlation of MRI-derived apparent diffusion coefficients in newly diagnosed gliomas with [18F]-Fluoro-L-Dopa PET: What are we really measuring with minimum ADC? *Am J Neuroradiol.* Oct 18: Epub ahead of print.

Rose S, Pannek K, Bell C, Baumann F, Hutchinson N, Coulthard A, McCombe P, Henderson R. Direct evidence of intra- and interhemispheric corticomotor network degeneration in amyotrophic lateral sclerosis: an automated MRI structural connectivity study. *Neuroimage.* 2012;59(3):2661-9.

Rose S, Rowland T, Pannek K, Baumann F, Coulthard A, McCombe P, Henderson R. Structural hemispheric asymmetries in the human precentral gyrus hand representation. *Neuroscience.* 2012;17(210):211-21.

Salamonsen M, Ellis S, Paul E, Steinke K, Fielding D. Thoracic ultrasound demonstrates variable location of the intercostal artery. *Respiration.* 2012;83(4):323-329.

Shulman R, Chai E. Coronal plane obliquity of the opening wedge osteotomy and its effect on opening gap distance: A simple mathematical and schematic assessment. *Techniques in knee surgery.* 2012;11(4).



Medical Services



Dr Judy Graves
Executive Director
Medical Services



Dr Amanda Dines
Deputy Executive Director
Medical Services



Dr Graham Steel
Director, Centre for Medical
Officer Recruitment and
Education



Therese Lee
Acting Director, Safety
and Quality

Overview

Medical Services is responsible for providing support to all areas of the Royal Brisbane and Women's Hospital in all aspects of medical administration.

The service line manages and coordinates medical staff appointments and allocations, credentialing and privileges, medical education and training, the Private Practice Trust Fund (PPTF), medico-legal services, chaplaincy, Health Information Services (HIS) and the Safety and Quality Unit. It provides specialist advice to the Hospital and Health Service CEO and RBWH Executive in relation to medico-legal matters, recruitment, appointment, credentialing and privileges of medical staff and the handling of patient compliments and concerns.

The RBWH Human Research Ethics Committee (HREC) falls under this service line. Its role is to consider applications to conduct research in the hospital, or to conduct research that involves patient participation. The committee provides recommendations as to whether or not, on ethical grounds, approval should be granted for research to proceed.

The Centre for Palliative Care Research and Education (CPCRE) is the main area of research. Medical Administration also undertakes research activities as part of quality improvement in health care service delivery.

The Safety and Quality Unit (SQU) is part of Medical Services and ensures good clinical governance is core business for the service line.

Key departments

- » Centre for Medical Officer Recruitment and Education (formerly Medical Education and Training Service)
- » Centre for Palliative Care Research and Education
- » Human Research Ethics Committee
- » Safety and Quality Unit

Executive and directing staff

Dr Judy Graves
Executive Director, Medical Services

Dr Amanda Dines
Deputy Executive Director, Medical Services

Dr Graham Steel
Director, Centre for Medical Officer Recruitment and Education

Prof. Patsy Yates
Acting Director, Palliative Care Research and Education

Dr Conor Brophy
Chair, Human Research Ethics Committee

Therese Lee
Acting Director, Safety and Quality

Centre for Palliative Care Research and Education



Prof. Patsy Yates
Acting Director, Palliative Care
Research and Education

Overview

The Centre for Palliative Care Research and Education (CPCRE) is a Queensland Health initiative. The centre's primary role 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.

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.

CPCRE is administered by a consortium of five organisations: Royal Brisbane and Women's Hospital (lead agency); The Prince Charles Hospital (TPCH); Queensland University of Technology (QUT); Karuna Hospice Service and Check-up Australia.

An advisory board comprising consortium members and representatives from the palliative care community and Queensland Health guides CPCRE in its activities.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Patsy Yates	RN, BA, DipAppSoc, MSocSci, PhD, FRCNA	Acting Director, Palliative Care Research and Education	palliative care, symptom management and supportive care
Prof. Janet Hardy	BSc, MBChB, MD, FRACP, FRChPM	Clinical Research Program Leader	palliative medicine research, evidence based symptom management
John Haberecht	RN, DipAppSci (Nurs), MEd, BA, GradDipArts, Cert IV Training and Assessment	Director, Learning and Development	end-of-life clinical pathways, improving access to palliative care education
Kym Griffin	RN, MN (Prac), Cert IV Leadership, Cert IV Frontline Management, Cert IV Training and Assessment, MPCNA, MONG, MPCQ	Research Officer	improving access to palliative care, improving access to good quality end-of-life care for non-oncological clients
Aurora Hodges	Cert IV Frontline Management	PEPA Manager Queensland	advance care planning, improving access to palliative care for all socio-economic groups
Darryl Lingwoodock	EN, Cert IV Training and Assessment, Cert IV in Aboriginal and Torres Strait Islander Mentoring	PEPA Indigenous Project Officer	improving access to palliative care for Indigenous peoples, closing the gap, and advancing reconciliation
Rosaleen Matters	EN, BBus	Executive Support Officer	improving access to palliative care

Supervised post-graduate students

Name	Current studies	Research topic
Boyd Orford, C.	PhD	Palliative care practices in high-intensity transplant setting
Ranse, K.	PhD	End-of-life care in the intensive care setting: Australian nurses' practice behaviours and factors influencing these practice behaviours
Chan, R.	PhD	Self-management associated with fatigue in patients with advanced cancer
Huang, Y.	PhD	End-of-life decision making among community members in Taiwan
Hope, C.	PhD	Evaluation of the implementation of a nurse led, evidence based tailored pain education intervention for people requiring palliative care
Fox, J.	Masters (Research)	Melanoma patients transitioning to palliative care – a grounded theory approach

Supervised post-graduate students

Name	Current studies	Research topic
Hughes, J.	Masters (Research)	Do measures of access block correlate to time to analgesia in painful conditions at a large tertiary emergency department
Tapsall, D.	Professional Doctorate	Design, implementation and evaluation of a new model of nurse education in the haematology oncology setting
Raj, B.	PhD	Improving analgesia in cancer patients
Hall, A.	PhD	The pharmaco-kinetic, pharmaco-dynamic and adverse event relationships of gabapentin and pregablin in the management of persistent pain
McKeon, C.	Masters (Science)	Electroacupuncture in chemotherapy-induced nausea and vomiting

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Yates P.	National coordination and management of the Program of Experience in the Palliative Approach (PEPA)	Australian Government Department of Health and Ageing		2011-2014
Hope, C., Yates, P.	NHMRC Trip Fellowship 2010-2012	NHMRC	\$124,000	2010-2012
Yates, P., Mitchell, G., Connell, S., Skerman, H., Wilson, A.	Achieving needs-based end-of-life services: A prospective longitudinal study of the pathways for advanced cancer patients	Cancer Council Queensland	\$200,000	2011-2012
Colquist, S., Douglas, C., Anderson, D., Yates, P., McCarthy, N., Hargraves, M., White, K.	A behavioural intervention for managing menopausal symptoms in women with breast cancer	Cancer Council Queensland	\$130,825	2011-2014
Turner, J., Kelly, B., Clarke, D., Yates, P., Aranda, S., Jolley, D., Chambers, S., Hargraves, M. Mcfadyen, L.	Application of tailored therapies to reduce distress and depression in cancer patients: A randomised trial	Beyondblue	\$591,305	2010-2012
Yates, P., Hardy, J., Currow, D., Martin, P., Mitchell, G., Philip, J., Hudson, P., Clavarino, A.	A randomised, controlled trial of aetiology-based, anti-emetic guidelines in reducing nausea in advanced cancer	NHMRC	\$1,111,000	2010-2012
Agar, M., Hardy, J., Currow, D. et al.	A randomised, controlled trial of oral risperidone versus oral haloperidol versus oral placebo with rescue subcutaneous midazolam in the management of delirium in palliative care inpatients	Australian Government Department of Health and Ageing	\$158,464	2007-2012
Currow, D., Hardy, J., Fazekas, B., Shelby-Jones, T., et al.	A randomised double blind controlled trial of infusional subcutaneous octreotide in the management of bowel obstruction in people with advanced cancer	Australian Government Department of Health and Ageing	\$157,080	2007-2012
Hardy, J., Currow, D., Fazekas, B., Shelby-Jones, T., Ashby, M. et al.	A randomised, double-blind, placebo-controlled study of subcutaneous ketamine in the management of cancer pain	Australian Government Department of Health and Ageing	\$212,481	2007-2012
Mitchell, G., Hardy, J., Currow, D., Nikles, J., Vora, R., Schulter, P., Yelland, M.	Using single patient trials to determine the effectiveness of psychostimulants in fatigue in advanced cancer patients	NHMRC	\$297,000	2007-2012
Nikles, C.J., Mitchell, G., Hardy, J., Currow, D., Vora, R., Schulter, P., Yelland, M.	Using n-of-1 trials to determine the efficacy of paracetamol in advanced cancer patients taking regular opioids	NHMRC	\$49,996	2008-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Nikles, J., Mitchell, G., Hardy, J. et al	n-of 1 trials of pilocarpine vs placebo for dry mouth in palliative care patients	Cancer Council Queensland	\$81,680	2009-2012
Hardy, J., O'Shea, A., Norris, R., Charles, B.	Intranasal midazolam for the palliation of breathlessness in life limiting disease	JP Kelly Mater Health Services Research Fund	\$15,000	2009-2012
Broom, A., Adams, J., Yates, P., Kirby, E., Good, E., Wootton, J., Hardy, J.	Pathways to and through palliative care: a sociological study of patient, carer and clinical experiences at the end-of-life	Australian Research Council	\$165,830	2012-2015
Hardy, J.	Data management grant	Cancer Council Queensland	\$178,650	2010-2012
Hardy, J., O'Shea, A., Shannon, C., Morton, A.	Vitamin D deficiency in palliative care inpatients	Mater Foundation Palliative Care Research Fund	nil	2012
Hardy, J., Craig, J., O'Shea, A., Bowler, S.	A pilot study to assess sleep apnoea in patients taking opioids	Mater Foundation Palliative Care Research Fund; Queensland Sleep Disorder Clinic	nil	2011-2013
Hardy, J., Jones, J., Munster, D., Shannon, C.	Pilot study of intraperitoneal bevacizumab for the palliation of malignant ascities	Mater Foundation Palliative Care Research Fund	nil	2011-2012
Currow, D., Abernethy, A., Davidson, T., Hardy, J., Agar, M., Clark, K.	A randomised, double-blind, multi-site, parallel arm controlled trial to assess relief of refractory breathlessness comparing fixed doses of morphine, oxycodone and placebo	Australian Government Department of Health and Ageing	\$2,881	2012-2013
McKeon, C., Hardy, J., Tapuni, A.	A randomised, double-blind, placebo controlled study of oral vitamin C in conjunction with opioids for cancer pain	Mater Health Services Theme 2 Grant Funding Round 2012	\$8,210	2012-2013
Bista, S., Hardy, J., Norris, R., Haywood, A., Charles, B.	Optimising pain management with fentanyl in cancer patients	Mater Health Services Theme 2 Grant Funding Round 2012	\$8,500	2012-2013
Haywood, A., Norris, R., Hall, T., Hardy, J., Bruce, C., Pinkerton, R., Duley, J., Martin, J., Tapuni, A., Jenkins-Marsh, S., Bista, S.	Optimising pain management with fentanyl in patients with cancer	Griffith Health Institute Project Grant Scheme	\$10,000	2012-2013

Publications

Aranda S, Jefford M, Yates P, Gough K, Seymour J, Francis P, Baravelli C, Breen S, Schofield P. Impact of a novel nurse-led prechemotherapy education intervention (chemo ed) on patient distress, symptom burden, and treatment-related information and support needs: Results from a randomised, controlled trial. *Annals of Oncology*. 2012;23:222-231.

Currow D, Spruyt O, Hardy J. Defining refractory pain in cancer for clinicians and researchers. *Journal of Palliative Medicine*. 2012;15(1): 5-6.

Hardy J, Norris R, Anderson H, O'Shea A, Charles B. Is saliva a valid substitute for plasma in pharmacokinetic studies of oxycodone and its metabolites in patients with cancer? *Supportive Care Cancer*. 2012 April;20(4):767-772. [Epub 2011 April 15].

Hardy J, Quinn S, Fazekas B, Plummer J, Eckermann S, Agar M, Spruyt O, Rowett, D., Currow. A randomised, double-blind, placebo controlled, multi-site study of subcutaneous ketamine in the management of cancer pain. *Journal Clinical Oncology*. 2012 Oct; 10;30(29):3611-7. doi: 10.1200/JCO.2012.42.1081. [Epub 2012 Sep 10].

Kindl K, van Havre N, Hardy J. The Management of Type 2 Diabetes Mellitus in Palliative Care. *European Journal of Palliative Care*. 2012;19(6):266-269.

Langbecker D, Janda M, Yates P. Development and piloting of a brain tumour-specific question prompt list. *European Journal of Cancer Care*. 2012;21:517-526.

Liang SY, Yates P, Edwards H, Tsay SL. Opioid-taking self-efficacy amongst Taiwanese outpatients with cancer. *Supportive Care in Cancer*. 2012;20(2):199-206.

Publications

- Lord B, Recoche K, O'Connor M, Yates P, Service M. Paramedics' perceptions of their role in palliative care: analysis of focus group transcripts. *Journal of Palliative Care*. 2012;28(1):36-40.
- McConigley R, Aoun S, Kristjanson L, Colyer S, Deas K, O'Connor M, Harris R, Currow D, Yates P. Implementation and evaluation of an education program to guide palliative care for people with motor neurone disease. *Palliative Medicine*. 2012;26(8):994-1000.
- Newman B, Lose F, Kedda MA, Francois M, Ferguson K, Janda M, Yates P, Spurdle A, Hayes S. Possible genetic predisposition to lymphedema after breast cancer. *Lymphatic Research and Biology*. 2012;10(1):2-13.
- Ranse K, Yates P, Coyer F. End-of-life care in the intensive care setting: A descriptive exploratory qualitative study of nurses' beliefs and practices. *Australian Critical Care*. 2012;25(1):4-12.
- Rawas H, Yates P, Windsor C, Clark R. Cultural challenges to secondary prevention: Implications for Saudi women. *Collegian*. 2012;19:51-57.
- Schweitzer R, Griffiths M, Yates P. Parental experience of childhood cancer using interpretative phenomenological analysis. *Psychology and Health*. 2012;27(6):704-720.
- Shelby-James T, Hardy J, Agar M, Yates P, Mitchell G, Sanderson C, Luckett T, Abernethy A, Currow D. Designing and conducting randomised controlled trials in palliative care: A summary of discussions from the 2010 clinical research forum of the Australian Palliative Care Clinical Studies Collaborative. *Palliative Medicine*. 2012;26(8):1042-1047.
- Skerman H, Yates P, Battistutta D. Identification of cancer-related symptom clusters: An empirical comparison of exploratory factor analysis methods. *Journal of Pain and Symptom Management*. 2012;44(1):10-22.
- Tramm R, McCarthy A, Yates P. Using the precede-proceed model of health program planning in breast cancer nursing research. *Journal of Advanced Nursing*. 2012;68(8):1870-1880.
- Tsay SL, Chang JY, Yates P, Lin KC, Liang, SY. Factors influencing quality of life in patients with benign primary brain tumors: Prior to and following surgery. *Supportive Care in Cancer*. 2012;20(1):57-64.
- Wang SY, Windsor C, Yates P. Introduction to grounded theory. *Hu Li Za Zhi. The Journal of Nursing, Taiwan*. 2012;59(1):91-95.
- Yates P. Guest Editorial. Can we deliver both population-based and personalised approaches to cancer care? *Cancer Nursing*. 2012;35(6):399.
- Yates P. Update on complex non-pharmacological interventions for breathlessness. *Current Opinion in Supportive and Palliative Care*. 2012;6(2):144-152.
- Zhang SY, Edwards H, Yates P, Elder R, Guo QH. Development of self-efficacy questionnaire for Chinese family caregivers. *International Journal of Mental Health Nursing*. 2012;21(4):358-365.



Metro North Mental Health Services



Assoc. Prof. Brett Emmerson
Executive Director, Metro
North Mental Health Services



Lisa Fawcett
Nursing Director, Metro
North Mental Health Services

Overview

Metro North Mental Health employs more than 1100 staff, has an annual budget of \$150 million and a catchment area population of over 840,000 people. Mental Health Services are located at Royal Brisbane and Women's Hospital (RBWH), The Prince Charles hospital (TPCH) and Caboolture and Redcliffe Hospitals, with community-based services working across the district. Mental Health Services provided encompass acute, non-acute and continuing care across the life-span for people with diverse mental health problems. The service endorses the recovery approach and works collaboratively with consumers and carers and primary and private health providers.

The executive strongly endorses and promotes systematic evaluation of programs and interventions and the integration of basic and clinical research in development of services. In line with this, substantial investment has been made in embedding research within the culture at RBWH and establishment of partnerships with universities and other research bodies. This is evident in establishment of a multi-disciplinary team of researchers tasked with fostering research literacy and skills amongst staff, funding of evaluation activities and support provided to staff to facilitate continuing professional development. Many senior staff hold joint or adjunct posts with universities and research institutes and conduct cutting edge research within their departments and in partnership with academic and/or third sector partners. To build capacity we have hosted numerous post graduate students, two research interns (funded by grants from the PPTF and Allied Health) and a visiting researcher from Imperial College London. Metro North Mental Health-RBWH research and evaluation activities are overseen by a formally constituted committee and the service is represented on the RBWH Human Research Ethics Committee. Importantly we are strengthening mechanisms to support engagement of consumers and carers in research, as investigators and participants.

The ongoing investment in research staff has been well rewarded this year. Nursing research is flourishing with appointment of a Clinical Academic Fellow supporting development of a platform for collaboration between RBWH and the Queensland University of Technology, School of Nursing and Midwifery. Important studies examining the organisation, process and outcomes of care conducted with the service have provided a sound basis for quality improvement. Research staff have published widely and secured several prestigious awards from national bodies including the NH&MRC and Beyond Blue, and grants from the RBWH foundation. Awards will support diverse studies examining mental disorder, impact and interventions cross the spectrum of mental health research – from cell to society. Moving forward, we are working to align service driven research activity with service priorities to ensure that we continue to efficiently deliver the very best care for people who use our services and their families.

We are acutely aware that the huge contribution made by service, discipline leaders, nurse unit managers and all clinical staff underpins our achievements in research. These are the people who make time in their schedules to facilitate the conduct of studies, inviting researchers to examine their practice and supporting recruitment of the participants without whom research could not be conducted.

Key departments

- » Department of Adolescent Psychiatry
- » Department of Consultation Liaison Psychiatry
- » Eating Disorder Service
- » Hospital Alcohol and Drug Service
- » Inner North Brisbane Mental Health Service
- » Older Persons' Mental Health Service
- » Queensland Forensic Mental Health Service
- » QIMR/RBWH Mental Health Research Division

Executive and directing staff

Assoc. Prof. Brett Emmerson
Executive Director

Lisa Fawcett
Nursing Director/
Operations Director (inpatient)

Dr Ian Williams
Director, Adolescent Psychiatry

Dr John Linnane
Director, Consultation Liaison Psychiatry

Dr Warren Ward
Director, Eating Disorder Service

Dr Mark Daglish
Director, Addiction Psychiatry

Dr Vikas Moudgil
Clinical Director, Inner North Brisbane
Mental Health Service

Prof. Gerard Byrne
Director, Older Persons' Mental Health Service

Dr Ed Heffernan
Director, Queensland Forensic Mental Health Service

Prof. Michael Breakspear
Chair, QIMR/RBWH Mental Health Research Division



Dr Ian Williams
Director, Adolescent
Psychiatry

Department of Adolescent Psychiatry

The Adolescent Mental Health Unit is a 12-bed unit which provides acute inpatient care for people aged 14 to 17 years from across Queensland.

Psychiatrists and nurses work with allied health professionals to provide assessment of mental disorder and treatment as appropriate.

The unit is committed to evidence-based practice and research is supported in various ways. Team members are able to participate in nursing and allied health journal clubs and the unit hosts and facilitates research examining medical, psychological and social aspects of mental illness in young people.

In 2012, two clinical psychology students completing doctorates have undertaken empirical work related to adolescent mood regulation and depression and we have recruited participants for a study exploring first episode psychosis and trauma.



Dr John Linnane
Director, Consultation
Liaison Psychiatry

Department of Consultation Liaison Psychiatry

Research interests of Associate Professor Jane Turner have focused on promotion of wellness after completion of cancer treatment; the emotional impact of cancer on families (in particular advanced cancer), and the development and evaluation of sustainable models of improved health care service delivery.

We have recently closed recruitment for the PROMPT study, an RCT which recruited more than 500 patients at four sites across Australia to receive a tailored, psychosocial intervention delivered by novel health professionals who participated in focused training and skill development and clinical supervision. This is one of the largest studies of its kind internationally and data is currently being prepared for analysis. If successful in improving depression this will provide a sustainable model of service delivery which can be implemented across diverse treatment settings.

The department has just commenced a trial of a structured survivorship intervention for patients who have completed treatment for head and neck cancer, to be delivered by a trained oncology nurse. The theoretical platform for this intervention draws on the principles of chronic disease self-management and promotion of self-efficacy to encourage patients to engage in sustained behaviour change and self-care regarding cancer-related concerns. This is the first RCT of its kind to be conducted in Australia, and will provide critical data about innovative models of survivorship care which could be implemented locally and internationally.



Dr Warren Ward
Director, Eating
Disorder Service

Eating Disorder Service

The Eating Disorder Service, which incorporates inpatient and outpatient services based at RBWH and the Eating Disorders Outreach Service, is a tertiary service providing treatment using various models to people with eating disorders from across Queensland.

The service is staffed by a multidisciplinary team including a psychiatrist, registrar, nurses, dietitians, psychologists, social workers, and assistants in nursing and is committed to ongoing evaluation of all activities and hosting a range of research projects.

Students undertaking higher degrees are working collaboratively with staff members to investigate the effectiveness and experience of outpatient treatments including cognitive behaviour therapy and a new multi-modal intervention being trialled in the service.

We are working with partners in Australia and the United States on an international study of the genetics of anorexia nervosa (for which an \$800,000 funding was secured from the Klarman Family Foundation). Locally we are undertaking a mixed method evaluation of the process and outcomes of inpatient care which includes a qualitative examination of patients' experience.

Additionally we continue to evaluate our own established and innovative practice, presenting our findings for discussion at national and international conferences. The team meets quarterly to explore research opportunities and members participate in regional, national and international forums designed to develop the evidence-base needed to improve treatment of eating disorders. Their innovative work has been presented at several international conferences.



Dr Mark Daglish
Director, Addiction Psychiatry

Hospital Alcohol and Drug Service

The Hospital Alcohol and Drug Service (HADS) provides inpatient services for management of alcohol and drug problems. We also provide a consultation-liaison service to the rest of RBWH.

The inpatient arm of the service comprises a 20-bed ward admitting approximately 1200 admissions per year, with the majority being for alcohol withdrawal management.

The consultation-liaison service provides advice and assistance to the whole of RBWH, with a similar number of referrals each year.

We have particularly close links with the Department of Emergency Medicine, the Psychiatric Emergency Clinic, the Chronic Pain Team and general Mental Health Services. We also provide expert input to the specialist ante-natal clinic (SHADES) for substance using women and a Drug and Alcohol Brief Intervention Team (DABIT) service to the Department of Emergency Medicine.

The service has been involved in an international study examining the effectiveness of smoking cessation pharmacotherapies amongst people with severe mental illness and will be working in the coming year on studies of interventions designed to reduce the impact of harmful alcohol.



Dr Vikas Moudgil
Clinical Director, Inner North
Brisbane Mental Health
Service

Inner North Brisbane Mental Health Service

Inner North Brisbane Mental Health Service provides mental health assessment and treatment services to the 330,000 adults who reside in the RBWH catchment areas. The catchment area has a large homeless population, high levels of drug use (particularly amphetamines), is the busiest court liaison complex in the state and has approximately 2000 hostel/boarder house beds, three large homeless shelters and two private psychiatric hospitals which frequently refer patients with behavioural disorders.

The service comprises a Psychiatric Emergency Centre (PEC), which services the busiest emergency department in Australia, an acute care team, a homeless health outreach team, northern and southern community/in-patient teams, a community care unit (20 beds) and a resource team. The hospital and community-based teams provide integrated mental health services, with 50 acute care adult beds while the resource team provides logistic and specialist support across the Service.

A range of research, evaluation and quality improvement projects are currently underway within the service. Each project is designed to support the efficient delivery of effective services to people who need them and improve patient outcomes and experience.

Dr James Scott, recognised internationally as an authority on adolescent mental health, is leading studies to improve the understanding and effective intervention with people experiencing a first episode of psychosis.

The service is working with the Commonwealth on a national study into outcome assessment and has worked with Queensland Health to redesign community mental health service delivery to promote efficiency and consumer valued outcomes.

The service is sponsoring studies examining the effect of social cognition training for people with schizophrenia, the experience of seclusion and the causes of readmission. Moving forward we will continue to implement and evaluate the 'Let's get Physical' program designed to improve the detection and treatment of physical health problems in people prescribed antipsychotic medication and work with staff to explore implementation of the recovery orientation across the service. Additionally we are working collaboratively with our colleagues in pharmacy to evaluate poly-pharmacy and quality use of medicines with our patient population. We support staff to participate in a range of activities designed to enhance research capacity.



Prof. Gerard Byrne
Director, Older Persons'
Mental Health Service

Older Persons' Mental Health Service

The Older Persons Mental Health Service (OPMHS) assesses and treats older patients with serious mental disorders.

The service has 10 beds in the RBWH Mental Health Centre, runs an outpatient clinic and a busy community outreach service. It also provides a consultation/liaison service to the Geriatric Assessment and Rehabilitation Unit (GARU) and contributes to the RBWH Memory Clinic.

OPMHS has strong links with the UQ Discipline of Psychiatry and is actively engaged in teaching students of several disciplines (medical, nursing, psychology, occupational therapy, social work).

Personnel of the OPMHS are involved in clinical and health services research in relation to mental disorders in older people, including those with dementia, anxiety and depression. In addition, the director of the OPMHS has a research program that is investigating various aspects of dementia, particularly behavioural and psychological symptoms in Alzheimer's disease.

A number of competitively funded research projects are underway in collaboration with research psychologists and laboratory scientists. Funding has been obtained from the US Alzheimer's Association, the NHMRC, the Wicking Trust, the RBWH Research Foundation and several private benefactors.

Dr Gerard Byrne, Director of the Older Persons' Mental Health Service has collaborated with Dr Christine Neville to publish a textbook for mental health staff joining older persons teams called Community Mental Health for Older People (Elsevier). The Geriatric Anxiety Inventory (GAI), a scale to measure anxiety in older people, developed by Dr Byrne and Dr Nancy Pachana has now been translated into more than a dozen languages and is in widespread use around the world.



Dr Ed Heffernan
Director, Queensland Forensic
Mental Health Service

Forensic Mental Health Service

The Queensland Forensic Mental Health Service (QFMHS) (RBWH district) aims to be a leading research authority on people with a mental illness involved in the criminal justice system.

The vision of the service is to conduct innovative research which informs service design and delivery, and ultimately improves the experience of forensic consumers and other stakeholders. The service also prioritises the sharing of research findings with stakeholders and the wider research community, through publication and presentations.

The QFMHS Academic and Research Committee oversees the service's research agenda and provides a forum in which research can be discussed, prioritised, planned, and reviewed. The committee also encourages the development of relationships with academic partners and research bodies and the service has strong relationships with universities such as The University of Queensland (UQ), Griffith University and Bond University.

QFMHS professional staff, regardless of position or qualification, are actively supported in their participation in relevant forensic research and several special interest groups operate within the service (eg. stalking interest group, sex offender interest group).

In the coming years, the service aims to intensify and broaden its research activities, in line with the priorities set out in the Forensic Mental Health Framework 2011, in a manner which will improve service quality for forensic consumers and stakeholders.

We are delighted to have been successful this year securing a substantial grant from Beyondblue to examine the mental health of Indigenous women in Queensland prisons.



Prof. Michael Breakspear
Chair, QIMR/RBWH Mental
Health Research Division

QIMR/RBWH Mental Health Research Division

Systems Neuroscience is an approach to brain sciences that seeks the basic principles of brain organisation, dynamics and function across a hierarchy of spatial and temporal scales. It is a rapidly growing field that differs considerably from the traditional reductionist paradigm in neuroscience that addresses sufficient causes for local phenomena.

The work of our group embodies these principles across three broad domains - empirical, computational and clinical neuroscience. The overarching aim of this work is to contribute towards unifying models of brain architecture, dynamics and cognitive (dys)function.

We are funded in national collaborations by the Australian Research Council (Thinking Systems), The National Health and Medical Research Council (NHMRC), and the Rotary Foundation and in an international collaboration by the James. S. McDonnell Foundation (BrainNRG).

Research staff

Name	Qualifications	Position	Interests/specialties
Metro North Mental Health Services			
Assoc. Prof. Brett Emmerson	MBBS, MHA, FRANZCP, FRACMA	Executive Director, Metro North Mental Health Services	health services research, physical health of people with severe mental illness, use of benchmarking to improve clinical practice
Lisa Fawcett	RGN, Cert Psychiatric Nursing, Cert Management, Grad Dip Health Counselling, MSc (PHC).	Nursing Director, Operations Director of Psychiatric Emergency Service	mental health nursing, workforce development, nursing leadership quality improvement and standards, consumer and carer engagement
Nicole Goulter	BN, MMHN, MASC (current)	Clinical Academic Fellow (Nurse Researcher)	mental health, nursing, models of care, interventions
Sue Patterson	BSocSci, BSc (Psych) (Hons), Grad Cert Health, DIC, PhD	Principal Research Fellow (Mental Health)	health systems, service delivery, methodology, psychosocial interventions
Ben Chapple	BA (Hons), MIT	Principal Mental Health Information Manager	predictive modelling and health economics
Nathan Dart	BN, MMHN,	Nurse Manger	workforce development and management
Di Burrows	RGN	Service Development Coordinator	quality improvement and audit methodology
David Higson	Cert Psychiatric Nursing, BN, Grad Cert	Assistant Nursing Director	inpatient service improvement
Jeremy Johnson	BSc Astrophysics, BSc Psychology/ Mathematics, MBBS	Research Intern	health services research and patient outcomes, cognitive psychology
Consultation Liaison Psychiatry			
Assoc. Prof. Jane Turner	MBBS, PhD, FRANZCP	CL Psychiatrist	psycho-oncology
Dr Rodney Marsh	MBBS, FRANZCP	Consultant Psychiatrist	neuropsychiatry
Eating Disorder Service			
Dr Warren Ward	MBBS, FRANZCP, GradCertMgmt	Director, Eating Disorder Service	service access, malnutrition, medical monitoring
Elaine Painter	BNSc, BA, MPH	Team Manager	national advocacy, families and carer support
Erin Anderson	BA (Hons Psych), MCLin (Psychology)	Senior Clinical Psychologist	cognitive behaviour therapy, metacognition
Rachel Bellair	BA (Hons Psych), PhD (psychology)	Senior Clinical Psychologist	team functioning, service evaluation
Amanda Davis	BSc, PGDipNutDiet	Senior Dietitian	nutritional management, malnutrition, medical monitoring
Carmel Fleming	BSocWk (Hons), MSW	Educator; Senior Social Worker	cognitive behaviour therapy, education
Shane Jeffrey	BSc, GradDipNutrDiet	Senior Dietitian	weight management, service evaluation, malnutrition
Natalie Rhodes	BA (Psychology)	Senior Psychologist	cognitive behaviour therapy, family and carer support
Michelle Roberts	BSocWk, GradDipLaw	Senior Social Worker	family and carer support
Catherine Vellacott	BNurs	Clinical Nurse Consultant	inpatient management, consultation liaison services

Research staff

Name	Qualifications	Position	Interests/specialties
Hospital Alcohol and Drug Service			
Dr Mark Daglish	BSc, MBChB, MRCPsych, MD, FRANZCP	Director and Senior Lecturer of Addiction Psychiatry	addiction, neuroimaging
Assoc. Prof. Bruce Lawford	MBBS, FRANZCP, FACHAM	Visiting Medical Officer; Assoc. Prof. QUT	addiction, anxiety, mood disorders, schizophrenia, genetics
Dr Robert Bell	BMed, FRANZCP, FACHAM	Visiting Medical Officer; Senior Lecturer, UQ	nicotine addiction
Michael Wilson	BEd, RN, RPN	Research Clinical Nurse Consultant	nicotine addiction
Inner North Brisbane Mental Health Service			
Dr James Scott	MBBS, PhD, FRANZCP	Senior Lecturer in Early Psychosis; Senior Staff Specialist	early psychosis, autism, psychological trauma
Dr Vikas Moudgil	MBBS, MHM, FRANZCP,	Clinical Director, Inner North Brisbane Mental Health Service	health service management
Colin Hudson	Operations Director	Inner North Brisbane Mental Health Service	service organisation
Anne Gordon	Masters Clinical Psychology	Psychologist	psychosocial interventions in schizophrenia
Stacey Dixon	BBSoc, Psy (Hons)	Psychologist	smoking and mental illness, seclusion practice
Older Persons' Mental Health Service			
Prof. Gerard Byrne	BSc, MBBS, PhD, FRANZCP	Director, Older Person's Mental Health Service	mental disorders in older people, Alzheimer's disease
Dr Vicki Naumann	MBBS, FRANZCP	Staff Specialist	mental disorders in older people, Alzheimer's disease
Dr Rudi Tannenberg	BSc, PhD	Post-doctoral fellow	synaptic proteins in Alzheimer's disease
Dr Tarja Brita Robins Wahlin	MSc, PhD	Post-doctoral fellow	neuropsychology of Huntington's disease
Dr Nadeeka Dissanayakka	BSc, PhD	Post-doctoral fellow	non-motor manifestations of Parkinson's disease
Liz Arnold	B Nurs	Research Coordinator	Alzheimer's disease
Lyn Isabel	MSW	Research Assistant	Alzheimer's disease
Prof. Nancy Pachana	AB, MA, PhD	Research Collaborator	Geropsychology
Dr Nancye Peel	BPhty, MPH, PhD	Research Officer	Dementia
Dr Katharine Vearncombe	BPsych, PhD	Research Officer	Geropsychology
Queensland Forensic Mental Health Service			
Dr Ed Heffernan	MBBS, BSc (Hons), MPH, FRANZCP	Director, Queensland Forensic Mental Health Service	custodial mental health, Indigenous forensic mental health, substance use disorders
Dr Elke Perdacher	B SS (Psych), Pg. Dip. Psych., DPsych (Forensic)	Program Coordinator, Post Graduate Training	child sexual offenders, quality of admission in child sexual offenders across the judicial system – offender, victim and offence characteristics
Dr Bob Green	B SocWk, MSW, PhD (Psych)	Program Coordinator, Statewide Community Risk Management Program	risk assessment, arson and reoffending

Research staff

Name	Qualifications	Position	Interests/specialties
Queensland Forensic Mental Health Service			
Adj. Prof. Michele Pathé	MBBS, MD, FRANZCP	Senior Forensic Psychiatrist	stalking risk arson public figure harassment
Dr Tim Lowry	BA, GradDipSc, MCLinPsych, DPsych (Clinical)	Team Manager, CFOS	arson risk assessment delusions and other high risk psychotic phenomena system development
Dr Jane Phillips	MBBS (Hons), MPM, FRANZCP, Cert Forensic Psych, GradDipBehSci	Forensic Psychiatrist	court liaison assessment screen for stalkers
Tamara Smith	PhD candidate	Acting Senior Psychologist	intellectual disability
Kimina Andersen	BSocWk	Program Coordinator, Forensic Indigenous Mental Health	indigenous mental health and forensic services
Georgia Sakrzewski	BBehSc, BPsych (Hons)	Program Coordinator, Research and Evaluation	transition of mentally ill prisoners returning to the community, national prison mental health benchmarking
Fiona Davidson	BNurs, GradDipMentalHealth, MSocial Sc (Health)	Program Coordinator, Research and Evaluation	sedating psychotropic medication in custodial settings forensic mental health
Bruce Hamilton	BArts (Psych), Psych (Hons), Cert IV WTA	Program Coordinator, Statewide DFLO Network	detachment from the workplace
Robert Pedley		Continuity of Care Coordinator	transition of mentally ill prisoners returning to the community
Bernadette McDermott	BSc, Hons (Psych), PGCE, GradDip HealthManagement	Team Manager, CFOS	national forensic benchmarking
QIMR/RBWH Mental Health Research Division			
Prof. Michael Breakspear	BA (Hons), BSc (Hons), MB BS, PhD, FRANZCP	Chair, QIMR/RBWH Mental Health Research Division; Staff Psychiatrist	mental health research, neuroscience
Dr Tjeerd Boonstra	PhD	Post-doctoral research Fellow	neuroscience
Dr Mark Schira	PhD	Post-doctoral research Fellow	neuroimaging
Dr James Roberts	PhD	Post-doctoral research Fellow	computational neuroscience

Supervised post-graduate students

Name	Current studies	Research topic
Metro North Mental Health Services		
Goulter, N.	Masters of Science	Mental health nursing practice
Consultation Liaison Psychiatry		
Crowe, L.	Masters of Philosophy	Stress and burnout in staff working in paediatric oncology
Eating Disorder Service		
Vann, A.	Doctorate of Psychology (clinical)	Metacognition in eating disorders
Hospital Alcohol and Drug Service		
Ho, A.M.C	PhD	The interactions between personality, genetics, hormone responses and alcohol dependence
Dissabandara, L.	PhD	Genetics of heroin dependence

Supervised post-graduate students

Name	Current studies	Research topic
Inner North Brisbane Mental Health Service		
Dixon, S.	Masters of Clinical Psychology	The process of seclusion in mental health units: The patients' perspective
Gordon, A.	Doctorate of Psychology	Social cognition training for people with schizophrenia
Castellini, J.	Doctorate of Psychology	Emotional regulation in adolescents
Wong, A.	Doctor of Philosophy	Distinguishing dissociative identity disorder from schizophrenia
Mills, A.	PhD	The role of cytokines in adolescents with depression
Erskine, H.	PhD	Measuring the global burden of disease for childhood disruptive behavioural disorders
Duhig, M.	Masters of Psychology	The clinical outcomes of patients with first episode of psychosis who have experienced trauma in childhood
Capra, C.	PhD,	An internet-based treatment program for young people with odd or unusual thoughts and/or experiences
Older Persons' Mental Health Service		
Chauvin, A.	PhD	
Laki, P.	MPhil	
Murphy, J.	PhD	Treatment resistant depression
Matheson, S.	PhD	Neonatal SSRI discontinuation syndrome
Higgs, C.	PhD	Vesicular glutamate and GABA transporters in AD
Sindi, I.	PhD	Trans-synaptic proteins in AD: Neurexins and neuroligins
Tattersall, T.	PhD	Neural mechanisms that underlie emotional memory formation and extinction
Miloyan, B.	PhD	Executive function during normal ageing
Maguire, P.	PhD	Health literacy in people with chronic psychosis
McVie, N.	PhD	An analysis of the decisions of the Queensland Mental Health Court
Yasky, J.	PhD	
Queensland Forensic Mental Health Service		
Heffernan, E.	PhD	Mental health of Aboriginal and Torres Strait Islander people in custody
Lowry, T.	Masters of Forensic Mental Health	Coursework with research basis
Hamilton, B.	Masters of Organisational Psychology	Psychological detachment from workplace
Smith, T.	PhD	The development and validation of the intellectual and cognitive impairment screen
Denton, M. (secondment)	PhD	Transition of mentally ill prisoners returning to the community
QIMR/RBWH Mental Health Research Division		
Rubinov, M.	PhD	Brain networks in health and disease
Langdon, A.	PhD	Computational models of sensory perception
Heitmann, S.	PhD	Computational models of motor coordination
Muhsin, K.	PhD	Brain networks in perceptual decision making

Awards and achievements

Award	Event	Name
Metro North Mental Health Services		
Senior Research Award, Royal Australian and New Zealand College of Psychiatrists		Byrne, G.
Best Oral Presentation	2012 RBWH Healthcare Symposium	Hollingsworth, K.
State award for 'Court Liaison Assessment Screen for Stalkers (CLASS)'t	2012 Australian Crime and Violence Prevention Awards	Pathe, M., Phillips, J.
2012 Queensland Bostock Oration		Scott, J.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Metro North Mental Health Services				
Pritchard, M., Hovey, D., Bella, E., Cartwright, C., Scott, J	A longitudinal study of autism, development and parenting in preterm infants (<29weeks) from two to four years	RBWH Research Foundation	\$25,500	2012
Scott, J.	Bryan Foundation Scholarship	Bryan Foundation	\$75,000	2012
Goulter, N.	Clinical Academic Fellowship	OHMR	\$375,000	2012-2016
Patterson, S., Scott, J.	Building mental health research capacity	RBWH Private Practice Trust Fund	\$36,270	2012
Patterson, S.	Hearing voices that are distressing training: A mixed method evaluation	RBWH, Allied Health Research Grants	\$18,000	2012
Butow, P., Thewes, B., Turner, J., Gilchrist, J., Beith, J., Girgis, A., Sharpe, L., Bell, M., Mihalopoulos, C.	Evaluation of a psychological and educational intervention for fear of cancer recurrence: A clustered randomised controlled trial	Cancer Australia Beyondblue ID:1022584	\$496,702	2012-2014
Girgis, A., Lambert, S., Turner, J., McElduff, P., Kayser, K., Mihalopoulos, C.	Coping together: A randomised, controlled trial of a self-directed coping skills intervention for patients with cancer and their partners	NHMRC ID: 1002715	\$718,021.60	2012-2014
Breakspear, M., Morley, J., Lovell, N.H., Paxinos, G., Harris, J., Goodhill, G.	Autonomous systems and control of the hand	Australian Research Council Thinking Systems Award	\$3.3 million	2006-2012
Breakspear, M.	A novel diagnostic test for schizophrenia	Queensland Health Office of Health and Medical Research	\$375,000	2010-2014
Breakspear, M., McIntosh, A.R., Jirsa, V., Deco, G., Friston, K., Price, C.	Brain Network Recovery Group	James McDonnell Foundation, USA	\$3 million	2011-2014
Mitchell, P., Parker, G., Schofield, P., Breakspear, M.	Identifying determinants of both the origins and progression of the depressive and bipolar (mood) disorders	NHMRC	\$ 7 million	2012-2016
Chambers, S., Girgis, A., Occhipinti, S., Turner, J., Carter, R., Dunn, J.	Improving the psychosocial health of people with cancer and their carers: A community-based approach	Cancer Australia Priority-driven grant scheme Beyond Blue	\$594,310	2009-2012
Byrne, G., Pachana, N., Beattie	Improving anxiety assessment and management in people with dementia	DCRC Grant	\$58,940	2011-2013
Ames, D., Gibson, S., Byrne, G., Katz, B.	Randomised controlled trial of analgesic medications to modify behavioural and psychological symptoms of dementia	NHMRC 1009435	\$570,898	2011-2013
Najman, J., Williams, G., Wray, N., Breen, G., Venter, D., Clavarino, A., Mamun, A., Alati, A., O'Callaghan, M., Bor, W., McGrath, J., Scott, J.	Genetic and environmental contributions to the life course of common mental disorders	NHMRC	\$1,474,527	2011-2014

Publications

- Aburn MJ, Holmes CA, Roberts JA, Boonstra TW, Breakspear M. Critical fluctuations in cortical models near instability. *Frontiers in Fractal Physiology*. 2012;3:331.
- Al Mamun A, O'Callaghan F, Scott J, Heussler H, O'Callaghan M, Najman J, et al. Continuity and discontinuity of trouble sleeping behaviors from early childhood to young adulthood in a large Australian community-based-birth cohort study. *Sleep Med*. 2012;13(10):1301-6.
- Almeida OP, Draper B, Pirkis J, Snowdon J, Lautenschlager NT, Byrne G, Sim M, Stocks N, Kerse N, Flicker L, Pfaff JJ. Anxiety, depression, and comorbid anxiety and depression: Risk factors and outcome over two years. *Int Psychogeriatr*. 2012;24(10):1622-32. doi: 10.1017/S104161021200107X. Epub 2012 Jun 12.
- Almeida OP, Pirkis J, Kerse N, Sim M, Flicker L, Snowdon J, Draper B, Byrne G, Goldney R, Lautenschlager NT, Stocks N, Alfonso H, Pfaff JJ. A randomised trial to reduce the prevalence of depression and self-harm behavior in older primary care patients. *Ann Fam Med*. 2012; 10(4):347-356. <http://www.ncbi.nlm.nih.gov/pubmed/22778123>.
- Almeida OP, Pirkis J, Kerse N, Sim M, Flicker L, Snowdon J, Draper B, Byrne G, Lautenschlager NT, Stocks N, Alfonso H, Pfaff JJ. Socioeconomic disadvantage increases risk of prevalent and persistent depression in later life. *J Affect Disord*. 2012 May;138(3):322-31. Epub Feb 12.
- Anderson E. Bulimia nervosa and binge-eating: have you considered a cognitive behavioural guided self-help approach? Australian Clinical Psychology Association: ACPARIAN, 2012;3:101-103.
- Aquino KM, Schira MM, Robinson PA, Drysdale PM, Breakspear M. Hemodynamic travelling waves in human visual cortex. *PLoS Computational Biology*. 2012;8:e1002435.
- Birznies I, Boonstra TW, Macefield VG. Modulation of human muscle spindle discharge by arterial pulsations – functional effects and consequences. *PLoS ONE* 2012;7:e35091.
- Black F, Schweitzer R, Varghese F. Allegations of child sexual abuse in family court cases: A qualitative analysis of psychiatric evidence. *Psychiatry, psychology and law*. 2012;19:482-496.
- Boonstra TW, Breakspear M. Neural mechanisms of intermuscular coherence: Implications for the rectification of surface electromyography. *Journal of Neurophysiology*. 2012;107:796-807.
- Breakspear M. Dynamic and stochastic models of neuro imaging data. *NeuroImage*. 2012; <http://dx.doi.org/10.1016/j.neuroimage.2012.02.047>.
- Burn MJ, Holmes CA, Roberts JA, Boonstra TW, Breakspear M. Critical fluctuations in cortical models near instability. *Frontiers in Fractal Physiology*. 2012;3:331.
- Chan J, French P, Hudson C, Webber L. Applying the CRPD to safeguard the rights of people with a disability in contact with the criminal justice system. *Psychiatry, psychology and law*. 2012;19(4):558-565.
- Chambers SK, Girgis A, Occhipinti S, Hutchison S, Turner J, Morris B, Dunn J. Psychological distress and unmet supportive care needs in cancer patients and carers who contact cancer helplines. *European Journal of Cancer Care*. 2012;21:213-223.
- Cox A, Emmerson B, Collyer B, Scott J. Why change injection sites for depot antipsychotic medication. Letter, Australian and New Zealand Journal of Psychiatry DOI: 10.1177/0004867412445024. Australian and New Zealand Journal of Psychiatry. 2012;46:8.
- Crawford MJ, Killaspy H, Barnes TB Barrett B, Patterson S et al. Group art therapy as an adjunctive treatment for people with schizophrenia: Multi-centre pragmatic randomised trial. *BMJ*. 2012;344:e846.
- Crawford MJ, Killaspy H, Barnes TB, Barrett B, Patterson S, et al. Group art therapy as an adjunctive treatment for people with schizophrenia: Multi-centre pragmatic randomised trial. *Health Technol Assess*. 2012;16(8):1-76.
- Dissabandara LO, Loxton NJ, Dias SR, Daglish MRC, Stadlin A. Testing the fear and anxiety distinction in the BIS/BAS scales in community and heroin-dependent samples. *Personality and Individual Differences*. 2012;52:888–892.
- Emmerson B, Scott J. The Australian States and Territories: 'Queensland' in Meadows G, Farhall J, Fossey E, Grigg M, McDermott F, Singh B, (Eds.) *Mental Health in Australia: Collaborative Community Practice* (3rd ed., pp.132-136) 2012 South Melbourne: Oxford University Press.
- Emmerson B et al. Enhancing community mental health services through formal partnerships with supported employment providers. *American Journal of Psychiatric Rehabilitation*. 2012;15:2:157-180.
- Emmerson B, McMahon K, Stark A, Barnes M, Ward W, Kealy-Bateman. Will we ever have enough psychiatric registrars? *Australian Psychiatry*. 2012;20(5):446-447. DOI: 10.1177/1039856212455254.
- Freyer F, Roberts JA, Becker R, Robinson PA, Ritter P, Breakspear M. A canonical model of multistability and scale-invariance in biological systems. *PLoS Computational Biology*, *Comput Biol* 8(8): e1002634. doi:10.1371/journal.pcbi.1002634.
- Friston KJ, Adams R, Perrinet L, Breakspear M. Perceptions as hypotheses: Saccades as experiments. *Frontiers in Perception Science*. 2012;3:151.
- Friston KJ, Breakspear M, Deco G. Perception and self-organised instability. *Front Comput Neurosci*. 2012;6:44. doi: 10.3389/fncom.2012.00044.
- Gonçalves DC, Byrne GJ. Interventions for generalized anxiety disorder in older adults: Systematic review and meta-analysis. *J Anxiety Disord*. 2012;26(1):1-11. <http://www.ncbi.nlm.nih.gov/pubmed/21907538>

Publications

- Gonçalves DC, Byrne GJ. Sooner or later: Age at onset of generalized anxiety disorder in older adults. *Depress Anxiety*. 2012;29(1):39-46. <http://www.ncbi.nlm.nih.gov/pubmed/21898708>.
- Gonçalves DC, Byrne GJ. Who worries most? Worry prevalence and patterns across the lifespan. *Int J Geriatr Psychiatry*. 2012; doi: 10.1002/gps.3788. <http://www.ncbi.nlm.nih.gov/pubmed/22374912>.
- Hamlyn J, Duhig M, McGrath J, Scott J. Modifiable risk factors for schizophrenia and autism - shared risk factors impacting on brain development. *Neurobiology of Disease Neurobiol Dis*. 2012.
- Harris M, Greaves F, Gunn L, Patterson S, Greenfield G, Car J, Majeed A, Pappas Y. Multidisciplinary group performance – measuring integration intensity in the context of the North west London integrated care pilot. *International Journal of Integrated Care*. 2012.
- Harris M, Greaves F, Patterson S, Jones J, Pappas Y, Majeed A, Car J. The North west London integrated care pilot – innovative strategies to improve care coordination for the elderly and people with diabetes. *Journal of Ambulatory Care Management*. 2012;35(3):216-25. doi: 10.1097/JAC.0b013e31824d15c7.
- Heffernan EB, Andersen K, Whitton G. Prison Populations. In: Lee K, Freeburn B, Ella S, Miller W, Perry J, Conigrave K [editors]. *Handbook for Aboriginal Alcohol and Drug Work*. Sydney: University of Sydney. 2012;385-397.
- Heffernan EB, Anderson K C, Dev A, Kinner S. Prevalence of mental illness among Aboriginal and Torres Strait Islander people in Queensland Prisons. *Medical Journal of Australia*. 2012;197(1):37-41.
- Heffernan EB, Andersen KC, Dev A. Inside Out – The mental health of Aboriginal and Torres Strait Islander people in custody report. 2012. Queensland Government, Brisbane.
- Heffernan EB, Andersen KC, Dev A, Kinner S. Prevalence of mental illness among Aboriginal and Torres Strait Islander people in Queensland Prisons. *Medical Journal of Australia*. 2012;197:137-41.
- Heitmann S, Ferns N, Breakspear M. Muscle co-contraction modulates damping and joint stability in a three-link biomechanical limb. *Frontiers in Neurorobotics*. 2012;5:5.
- Heitmann S, Gong P, Breakspear M. A computational role for bistability and traveling waves in motor cortex. *Frontiers in Computational Neuroscience* 2012;6:67. doi: 10.3389/fncom.2012.00067.
- Hollingsworth K, Callaway L, Duhig M, Matheson S, Scott J. The association between maltreatment in childhood and pre-pregnancy obesity in women attending an antenatal clinic in Australia. *PLoS One*. 2012;7(12):e51868.
- Jacobs A, Butcher B, Emmerson B, Hustig H, Ressler S, Lambert T. Long acting risperidone in Australian patients with chronic schizophrenia: 24-month data from the e-STAR database. *BMC Psychiatry*. 2012;12:25,12:25. <http://www.biomedcentral.com/1471-244X/12/25>.
- Karim M, Harris JA, Morley JW, Breakspear M. Prior and present evidence: How prior experience interacts with present information in a perceptual decision-making task. *PLoS ONE*. 2012;7(5):e37580.doi:10.1371/journal.pone.0037580.
- Lambert S, Girgis A, Turner J, McElduff P, Kayser P, Vallentine P. A pilot, randomised, controlled trial of the feasibility of a self-coping skills intervention for couples facing prostate cancer: Rationale and design. *Health and quality of life outcomes*. 2012;10:119. Doi:10.1186/1477-7525-10-119.
- Langdon A, Breakspear M, Coombes S. Phase-locked cluster oscillations in periodically forced integrate-and-fire-or-burst neuronal populations. *Physical Review E* 86, Issue 6, id. 061903.
- Larsen J, Patterson S et al Implementing personalisation for people with mental health problems: A comparative case study of four local authorities in England. *Journal of Mental Health*. 2012 doi: 10.3109/09638237.2012.734658.
- Lawford BR, Morris CP, Swagell CD, Hughes IP, Young RMCD, Voisey J. NOS1AP is associated with increased severity of PTSD and depression in untreated combat veterans. *Journal of Affective Disorders*. 2012. <http://dx.doi.org/10.1016/j.jad.2012.10.013>.
- Lawford B, Barnes M, Swagell C, Connor J, Burton S, Heslop K, Voisey J, Morris C, Nyst P, Noble E, Young R. DRD2/ANKK1 Taq1A (rs 1800497 C>T) genotypes are associated with susceptibility to second generation antipsychotic-induced akathisia. *Journal of Psychopharmacology*. 2012;October 31.
- Liddle J, Smith-Conway ER, Baker R, Angwin AJ, Gallois C, Copland DA, Pachana NA, Humphreys MS, Byrne GJ, Chenery HJ. Memory and communication support strategies in dementia: Effect of a training program for informal caregivers. *Int Psychogeriatr*. 2012 Dec;24(12):1927-42. doi: 10.1017/S1041610212001366.
- Lo AH, Humphreys M, Byrne GJ, Pachana NA. Test-retest reliability and practice effects of the Wechsler Memory Scale-III. *J Neuropsychol*. 2012 Sep;6(2):212-31. Epub Jan 12. <http://www.ncbi.nlm.nih.gov/pubmed/22257421> doi: 10.1111/j.1748-6653.2011.02023.x.
- Lo AH, Pachana NA, Byrne GJ, Sachdev PS, Woodman RJ. Relationship between changes in body weight and cognitive function in middle-aged and older women. *Int J Geriatr Psychiatry*. 2012;27(8):863-72. <http://www.ncbi.nlm.nih.gov/pubmed/21987451>.
- Lord A, Horn D, Breakspear M, Walter M. Changes in community structure of resting state brain networks in unipolar depression. *PLoS ONE* 2012;7:e41282.
- Martin-Khan M, Flicker L, Wootton R, Loh PK, Edwards H, Varghese P, Byrne GJ, Klein K, Gray LC. The diagnostic accuracy of telegeriatrics for the diagnosis of dementia via video conferencing. *J Am Med Dir Assoc*. 2012;13(5):487 e19-24. <http://www.ncbi.nlm.nih.gov/pubmed/22572552>.

Publications

- Matheson SF, Byrne GJ, Dissanayaka NN, Pachana NA, Mellick GD, O'Sullivan JD, Silburn PA, Sellbach A, Marsh R. Validity and reliability of the geriatric anxiety inventory in Parkinson's disease. *Australas J Ageing*. 2012;31(1):13-6. <http://www.ncbi.nlm.nih.gov/pubmed/22417148>.
- McEwan TE, Pathé M. *Stalking. Encyclopaedia of Criminology and Criminal Justice*. USA: Springer.
- Morse M, Proctor N. Review: Exploring the role of the mental health nurse-practitioner in the treatment of early psychosis. *Journal of Clinical Nursing*. 2012;20:2702-2711.
- Mullen PE, Pathé M, Purcell R. Clinical management of stalkers and stalking behaviors. *Family and intimate partner violence Quarterly*. 2012;325-40.
- Murphy JA, Byrne GJ. Prevalence and correlates of the proposed DSM-5 diagnosis of chronic depressive disorder. *J Affect Disord*. 2012;139(2):172-80. <http://www.ncbi.nlm.nih.gov/pubmed/22381955>
- Murray CJ, Vos T, Lozano R, Naghavi M, Flaxman AD, Michaud C, Scott J et al. Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990-2010: A systematic analysis for the Global Burden of Disease Study 2010. *Lancet*. 2012;Dec15;380(9859):2197-223.
- Norman RE, Byambaa M, De R, Butchart A, Scott J, Vos T. The long-term health consequences of child physical abuse, emotional abuse, and neglect: A systematic review and meta-analysis. *PLoS Med*. 2012;9(11):e1001349.
- Pachana NA, McLaughlin D, Leung J, Byrne G, Dobson A. Anxiety and depression in adults in their eighties: Do gender differences remain? *Int Psychogeriatr*. 2012;24:145-50. <http://www.ncbi.nlm.nih.gov/pubmed/21777505>.
- Patterson S, Borschmann D, Waller D. Considering referral to art therapy: Responses to referral and experiences of participants in a randomised, controlled trial. *Int Journal of Art Therapy*. 2012;18(1):2-9.
- Paynter J, Scott J, Beamish W, Duhig M, Heussler H. A pilot study of the effects of an Australian centre-based early intervention program for children with autism. *The Open Paediatric Medicine Journal*. 2012;6:7-14.
- Plever S, McCarthy I, Emmerson B, Groves A. Clinical practice improvement payment: Incentives for delivery of quality care. *Australasian Psychiatry*. 2012;20(5):407-12. doi: 10.1177/1039856212460599.
- Purcell R, Mullen PE, Pathé M. What mediates psychopathology in stalking victims? The role of individual-vulnerability and stalking-related factors. *Journal of Forensic Psychiatry and Psychology*. 2012;23(3):361-370.
- Regan TW, Lambert SD, Girgis A, Kelly K, Kayser K, Turner J. Are two better than one? A systematic review of couple-based interventions for couples affected by cancer. *BMC Cancer*. 2012;12:279.
- Roberts G, Green MG, Breakspear M, McCormack C, Frankland A, Wright A, Levy F, Lenroot R, Chan HN, Mitchell. PB-reduced inferior frontal gyrus activation during response inhibition to emotional stimuli in youth at high-risk of bipolar disorder. *Biological Psychiatry*. 2012; doi: org/10.1016/j.biopsych.2012.11.004.
- Ross LJ, Wilson M, Banks M, Rezannah F, Daglish MRC. Prevalence of malnutrition and nutritional risk factors in patients undergoing alcohol and drug treatment. *Nutrition*. 2012;28;738-743.
- Saha S, Scott J, Varghese D, McGrath J. Social support and delusional-like experiences: A nation-wide, population-based study. *Epidemiol Psychiatr Sci*. 2012 Jun;21(2):203-12.
- Saha S, Scott J, Varghese D, McGrath J. Anxiety and depressive disorders are associated with delusional-like experiences: A replication study based on the National Survey of Mental Health and Wellbeing. *BMJ Open*. 2012;2(3).
- Seib CA, Daglish MRC, Heath R, Booker C, Reid C, Fraser F. Screening for alcohol and drug use in pregnancy. *Midwifery*. 2012;28(6):760-4. doi: 10.1016/j.midw.2011.08.003.
- Smith-Conway ER, Baker R, Angwin AJ, Pachana NA, Copland DA, Humphreys MS, Gallois C, Byrne GJ, Chenery HJ. Education strategies in dementia. *Aust Nurs J*. 2012;19(10):35. <http://www.ncbi.nlm.nih.gov/pubmed/22715609>.
- Stark A, Scott J. A review of the use of clozapine levels to guide treatment and determine cause of death. *Aust N Z J Psychiatry*. 2012 Sep;46(9):816-25.
- Travers C, Byrne G, Pachana N, Klein K, Gray L. A prospective, observational study of dementia and delirium in the acute hospital setting. *Intern Med J*. 2012 Sep 24. doi: 10.1111/j.1445-5994.2012.02962.x.
- Van den Berg D, Gong P, Breakspear M, Van Leeuwen C. Fragmentation: Loss of global coherence or breakdown of modularity in functional brain architecture? *Frontiers in Systems Neuroscience*. 2012;6:20. DOI: 10.3389/fnsys.2012.00020.
- Vos T, Flaxman AD, Naghavi M, Lozano R, Michaud C, Ezzati M, Scott J et al. Years lived with disability (YLDs) for 1160 sequelae of 289 diseases and injuries 1990-2010: A systematic analysis for the global burden of disease study. *Lancet*. 2012;Dec15;380(9859):2163-96./12).
- Waghorn G, Childs S, Hampton E, Gladman B, Greaves A, Bowman D. Enhancing community mental health services through formal partnerships with supported employment providers. *American Journal of Psychiatric Rehabilitation*. 2012;15:2:157-180.
- Webster J, Bretherton F, Goulter N, Fawcett L. Does an educational intervention improve the usefulness of HoNOS in an acute mental health setting. *International Journal of Mental Health Nursing*. 2012; DOI: 10.1111/j.1447-0349.2012.00868.x



Nursing and Midwifery Services



Adj. Assoc. Prof. Lesley Fleming OAM
Executive Director, Nursing and Midwifery Services

Overview

Nursing and Midwifery Services at RBWH employs more than 3,205 nursing and midwifery staff.

The Executive Director, Nursing and Midwifery Services and the service line Nursing Directors form the RBWH Nursing and Midwifery Executive Council (NMEC). This council is the governing body for nursing and midwifery at RBWH and is responsible and accountable to direct and lead the corporate and clinical governance of nursing and midwifery, ensuring at all times that nursing and midwifery professional practice standards are in place and maintained.

Professional development opportunities, continuing learning in the workplace, support for evidence based research and a number of innovative management practices prepare nurses and midwives for the high level of professional, technical and operational skills required by nurses and midwives.

The specialist unit with Nursing and Midwifery Services provide the pivotal infrastructure required to support nursing and midwifery across the organisation and whole of hospital operations twenty four hours a day, seven days a week.

Key departments

- » Patient Flow Unit
 - Community Interface Services
 - After-hours Hospital Management
 - Nursing Relief Pool
 - Patient Transport Unit
 - Operational Patient Flow Management Services, including the Transit Care Centre (Transit Lounge and Flex Bed Unit)
- » Workforce Planning Unit
- » Centre for Clinical Nursing
 - Workforce Development Education Unit
 - Research Development Unit

Executive and directing staff

Adj. Assoc. Prof. Lesley Fleming OAM
Executive Director, Nursing and Midwifery Services

Prof. Glenn Gardner
Director, Centre for Clinical Nursing

Prof. Joan Webster
Nursing Director, Research

Adj. Assoc. Prof. Robyn Fox
Nursing Director, Education

Anthony Nesbit
Nursing Director, Patient Flow Unit

Ben Ballard
Assistant Nursing Director,
Workforce Planning Unit



Back row: Judy O'Sullivan (Assistant Nursing Director, Department of Intensive Care Medicine), Kathleen Richter (Assistant Nursing Director, Internal Medicine and Aged Care), Kaylene Woollett (Assistant Nursing Director, Surgical and Perioperative Services), Katrina Kalmar (Assistant Nursing Director, Operational Patient Flow Unit), Dale Dally-Walkins (Assistant Nursing Director, Trauma Service), Sue Cadigan (Nursing Director, Surgical and Perioperative Services), Ben Ballard (Assistant Nursing Director, Workforce Planning), Dr Catriona Booker (Assistant Nursing Director, Education Coordination, Workforce Development and Education).

Middle row: Michelle Doidge (CNC, Infection Monitoring and Prevention Service), Juliet Graham (Nurse Manager, Critical Care and Clinical Support Services), Danielle Heffernan (Assistant Nursing Director, Renal Medicine), Kate Pearson (Assistant Nursing Director, Perioperative Services), Kate Mason (Nursing Director, Internal Medicine Services), Kelli Malone (A/Nurse Manager, Models of Professional Nursing Care), Prof. Joan Webster (Nursing Director, Research), Gillian Nasato (Assistant Nursing Director, Cancer Care Services), Mary Fenn (Assistant Nursing Director, Community Interface).

Front row: Lisa Fawcett (Nursing Director, Mental Health Services), Adj. Assoc. Prof. Alanna Geary (Nursing Director, Cancer Care Services), Adj. Assoc. Prof. Lesley Fleming (Executive Director, Nursing and Midwifery Services), Tony Nesbit (Nursing Director, Patient Flow Unit), Tami Photinos (Nursing and Midwifery Director, Women's and Newborn Services).

Centre for Clinical Nursing



Prof. Glenn Gardner
Director, Centre for
Clinical Nursing

Overview

The Centre for Clinical Nursing was established in May 2003 as the principal support service for nurse clinicians at RBWH. The centre operates in partnership with Queensland University of Technology (QUT) and is the location for the Chair in Clinical Nursing.

Our aim in the centre is to support a nursing workforce that is able to practise nursing competently and creatively and engage in the generation, application and evaluation of evidence-based practice to achieve a high quality patient centred nursing service. The team at the Centre for Clinical Nursing consists of a mix of education and research experts, and includes nurses who are leaders in their fields at state, national and international levels.

In addition to building nursing research capacity in the hospital, senior researchers in the Centre are internationally recognised for their contribution to the development of nursing, midwifery and healthcare knowledge through outputs from two major programs.

The Effectiveness of Nursing Interventions Program focuses on the development of Cochrane systematic reviews and scientific testing of a range of nursing and midwifery interventions. The Health and Nursing Services Research Program conducts epidemiological, basic and applied research into health service delivery models, testing service innovation and investigation of advanced, practice nursing roles.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Glenn Gardner	RN, DipNursEd, BAppSc (AdvNurs), MEdSt, PhD, FRCNA	Director, Centre for Clinical Nursing; Professor of Clinical Nursing	health services research, acute care nursing, advanced practice nursing service
Prof. Joan Webster	RN, BA	Nursing Director, Research	effectiveness of healthcare interventions, developing and testing instruments, evidence-based practice
Dr Carol Reid	RN, BHSc (Nurs), Grad Cert Health Studies (Sexual Health), M.APP. Sc (Research) PhD, MRCNA	Nurse Researcher	effectiveness of nursing interventions, evidence based practice, nursing workforce, sexual health and HIV, alcohol and drug, community health

Supervised post-graduate students

Name	Current studies	Research topic
Haydon, D.	PhD APA Scholarship	Health services for the subacute population in emergency department
O'Connell, J.	PhD APA Scholarship	Development of emergency nurse practitioner parameters of practice and specialist competency standards
Avery, J.	PhD APA Scholarship	The influence of health literacy on self-management of chronic disease
Roche, T.	Master of Applied Science (Research)	Evaluating outcomes of emergency nurse practitioner management of patients presenting with chest pain
Brown, L.	PhD	Effectiveness of evidence-based decision making in care options for end stage renal disease
Fox, A.	PhD	Factors influencing sustainability of emergency department nurse practitioner
Clifford, S.	PhD	Clinical service drivers for rural and remote nurse practitioners' continuing education
Dunne, L.	PhD	Relationship between the social support during labour, women's perceptions, and birth outcomes
Goulter, N.	Master of Applied Science (Research)	Evaluation of mental health nursing service models
Fenech, M.	PhD	Investigating facilitators and barriers to implementing nurse practitioner service
Jennings, T.	PhD NHMRC Scholarship	Evaluating specific patient outcomes from emergency nurse practitioner service
Shipman, J.	Master of Advanced Practice (Health Care Research)	Central venous pressure monitoring practice across Australian critical care units: A national survey

Supervised post-graduate students

Name	Current studies	Research topic
Fleming, L.	PhD	Effectiveness of an evidence-based leadership program: A cluster randomised controlled trial
Marsh, N.	Master of Advanced Practice (Health Care Research)	Peripheral venous dressings and securement devices for preventing intravenous complications
Gavin N	Master of Advanced Practice (Health Care Research)	The effect of frequency of dressing changes for central venous access devices on the incidence of catheter-related infection

Awards and achievements

Award	Event	Name
The Cecilia Brazil Nursing Research Award	2012 RBWH Healthcare Symposium	Reid, C.
Award of excellence	AORN 59th Congress, New Orleans	Webster, J.
Publication Achievement Award	RCCCPi, Griffith University	Webster, J.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Gardner, A., Gardner, G., Coyer, F., Henderson, A., Gosby, H.	Educating for health service reform: Clinical learning, governance, and capability	Australian Research Council Discovery Grant	\$291,000	2012-2015
Gardner, A., Gardner, G., Henderson, A., Coyer, F., Gosby, H., Lenson, S.	Educating nurse practitioners: Advanced specialty competence, clinical learning and governance	Office for Learning and Teaching, Australian Government	\$220,000	2012-2014
Gardner, G., O'Connell, J.	Pilot study for emergency department nurse practitioner competency development	Office of the Chief Nursing Officer	\$32,925	2011-2012
Gardner, G., Gardner, A., Middleton, S., Considine, J., Hurst, C., Della, P., FitzGerald, G.	Prospective evaluation of the impact of the nurse practitioner role on emergency department service and patient outcomes	Australian Research Council Linkage Grant Partner Contribution	\$507,178 \$270,000	2011-2014
Williams, N., Reid, C., Williams, L., Sullivan, P., Bonner, A., Hamernik, E., Jones, L.	Motivational interviewing for people with end stage kidney disease (ESKD) undergoing dialysis at home to improve treatment adherence: A randomised, controlled trial	RBWH Foundation	\$28,000	2012-2013
Reid, C., Fenech, M., Beckman, K.	A randomised controlled trial to evaluate the effectiveness of smoking cessation intervention for people with chronic hepatitis C	Queensland Health Nursing and Midwifery Research Grant; Queensland Nursing Council; Merc Sharpe and Dohme (Aust) Pty Ltd	\$9,595.10 \$14,351.50 \$15,000	2011-2012
Webster, J., Rickard, C., Scuffham, P.	The cost effectiveness of clinically indicated peripheral intravenous catheter replacement for the prevention of catheter failure	AusHSI	\$17,600	2012
Rickard, C., Fraser, J., Webster, J., Marshall, A., Young, J., Playford, E.G., McMillan, D., McGrail, M., Gowardman, J., Thom, O.	Securing arterial and venous peripheral devices effectively in hospitals: The SAVE trial	NHMRC	\$969,024	2012-2015

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Marsh, N., Webster, J., Rickard, C., Hewer, B.	Securing peripheral venous catheters effectively in hospitals: A pilot study	Office of Health and Medical Research	\$9,164	2012
Kildea, S., Webster, J., Martensson, L., Stapleton, H., Homer, C., Beckmann, M.	Impact of caesarean section rates following injections of sterile water (ICARIS Trial)	NHMRC	\$456,760	2011-2013
Reynolds, H., Rickard, C., Webster, J., Marsh N	Securing arterial and venous devices effectively in hospitals: The SAVE Trial (RBWH Pilot)	Griffith Health Institute Project Grant Scheme	\$14,098	2011-2012
Choboyer, W., Webster, J., Whitty, J., Mills, P., Desbrow, B., Rickard, C., Gillespie, B., Stankiewicz, M. Morley, N., Cullum, N.	Tertiary prevention for patients hospitalised with metabolic syndrome; developing a systematic, incremental pressure ulcer research program. Area of strategic investment (ASI) for chronic disease program	Area of Strategic Investment innovation application	\$99,021	2011-2012
Webster, J., Osborne, S., Gill, R., Chow, C., Wallin, S.	Promoting recovery and enhancing outcomes pre and post surgery (PREOPPS): Effects of oral carbohydrate loading on clinical outcomes	RBWH Foundation	\$19,600	2011-2012
Rickard, C., Webster, J., Young, J., McMillan, D., Fraser, J., McGrail, M.	Intravascular device administration sets: Replacement after standard versus prolonged use	NHMRC	\$1,555,305	2010-2012
Rickard, C., Webster, J., Chan, R.	The RSVP trial: Replacement of intravascular device administration sets after standard versus prolonged use	RBWH Research Foundation; Cancer Nurses Society of Australia	\$40,000 \$7,500	2010-2012
Chaboyer, W., Rickard, C., Aitken, L., Webster, J.	Centre for research excellence in nursing interventions for hospitalised patients	NHMRC	\$2,499,380	2010-2014
New, K., Fenn, M., Webster, J., Nesbit, T.	Minimising onerous movements for patients and staff: the MOVES study	RBWH Private Practice Trust Fund	\$100,000 \$39,000	2012-2013

Publications

Chang A, Gardner G, Duffield C, Ramis M. Advanced practice nursing role development: Factor analysis of a modified role delineation tool. *J Adv Nurs*. 2012;68(6):1369-79.

Chan R, Webster J, Marquets A. Systematic Review: The effects of orientation programs for cancer patients and their family/carers. *International Journal of Nursing Studies*. 2012;49:1558-1567.

Fox R, Burridge C, Bowen A. Preceptorship – Making a Difference. *Journal for nurses in staff development*. 2012;28(2):E12-E5.

Gardner G, Chang AM, Duffield C, Doubrovsky A. Delineating the practice profile of advanced practice nursing: A cross-sectional survey using the modified strong model of advanced practice. *Journal of Advanced Nursing*. 2012;doi: 10.1111/jan.12054. [Epub ahead of print.

Lee N, Webster J, Beckmann M, Gibbons K, Smith T, Stapleton H, Kildea S. Comparison of a single vs. a four intradermal sterile water injection for relief of lower back pain for women in labour : A randomised, controlled trial. *Midwifery*. 2012;e-pub ahead of print.

Lewis PA, Wright K, Webster A, Steer M, Rudd M, Gardner G. A randomised, controlled trial comparing aqueous crème with a beeswax and herbal oil crème in the provision of relief from post-burn pruritis. *Journal of Burn Care and Research*. 2012;33(4):195-200.

McInnes E, Middleton S, Gardner G, Haines M, Haertsch M, Paul CL, Castaldi P. A qualitative study of stakeholder views of the conditions for and outcomes of successful clinical networks. *BMC Health Services Research*. 2012;12(1). Article 49 (Section: Quality, performance, safety and outcomes).

O'Connell J, Gardner G. Development of clinician competencies for emergency nurse practitioners: A pilot study. *Australasian Emergency Nursing Journal*. 2012;15:195-201.

Seib CA, Daglish M, Heath R, Booker C, Reid C, Fraser J. Screening for alcohol and drug use in pregnancy. *Midwifery*. 2012;28(6):760-764.

Reid C. Examination of relationships and mediating effects of self-efficacy, locus of control, coping and the practice environment on caring efficacy and job satisfaction in Australian registered nurses. *Queensland University of Technology*. 2012; [Epub].

Reid C, Hurst CP, Anderson DJ. Examination of socio-demographics and job satisfaction in Australian registered nurses. *Collegian: Journal of the Royal College of Nursing Australia*. 2012; [Epub].

Publications

Rickard C, Webster J, Wallis M, McGrail M, French V, Foster L, Gallagher P, Gowerman J. Routine 3rd daily re-site of peripheral intravenous devices versus resite on clinical indication does not alter clinical outcome in hospitalized patients: a multi-centre randomised controlled trial. *Lancet*. 2012;380.

Webster J, Alghamdi AA. Use of plastic adhesive drapes during surgery for preventing surgical site infection (update). *Cochrane Database Systematic Reviews*. 2012; Issue 9.

Webster J, Osborne S. Preoperative bathing or showering with skin antiseptics to prevent surgical site infection (update). *Cochrane Database of Systematic Reviews*; 2012; Issue 9.

Webster J, Scuffman P, Stankiewicz M, Sherriff K, Chaboyer W. Negative pressure wound therapy for clean surgery. *Cochrane Database Systematic Reviews*. 2012; Issue 4.

Webster J, Bretherton F, Goulter N, Fawcett L. Does an educational intervention improve the usefulness of HoNOS in an acute mental health setting? *International Journal of Mental Health Nursing*. 2012. [Epub early view on-line].



Surgical and Perioperative Services



Dr Barry O'Loughlin
Executive Director, Surgical
and Perioperative Services



Sue Cadigan
Nursing Director, Surgical
and Perioperative Services

Overview

Surgical and Perioperative Services incorporates all surgical specialities at the Royal Brisbane and Women's Hospital and includes inpatient, ambulatory and perioperative services. In July 2004 this was expanded to include the Department of Anaesthetics and Perioperative Medicine.

The service line is a busy and challenging area with increasing acuity and complexity. Innovations in technology and new procedures contribute to the challenges in terms of patient delivery and teaching and training.

The service line consists of approximately 220 inpatient beds in eight geographically separate areas, a perioperative service, an anaesthetic service and outpatient services. The perioperative service is responsible for approximately 18,000 surgical procedures per year, performed in 18 operating rooms.

A wide range of elective and emergency speciality surgery and other services are provided, including trauma, burns, organ retrieval, chronic pain management and an acute pain management service. The pre-admission service manages approximately 90 per cent of elective surgical patients for assessment, education and discharge planning by medical, anaesthetic and nursing staff about one week prior to admission.

Key departments

- » Department of Anaesthetics and Perioperative Medicine
- » Department of Ear Nose and Throat Surgery
- » Department of General Surgery
- » Department of Neurosurgery
- » Department of Ophthalmology
- » Department of Oral and Maxillofacial Surgery
- » Department of Orthopaedic Surgery
- » Department of Plastics and Reconstructive Surgery
- » Professor Stuart Pegg Adult Burns Centre
- » Trauma Service
- » Department of Urology
- » Department of Vascular Surgery

Executive and directing staff

Dr Barry O'Loughlin
Executive Director, Surgical
and Perioperative Services;
Director, General Surgery

Sue Cadigan
Nursing Director, Surgical and
Perioperative Services

Assoc. Prof. Michael Steyn
Director, Anaesthetics
and Perioperative Medicine

Dr Andrew Lomas
Director, Ear Nose and Throat Surgery

Dr Scott Campbell
Director, Neurosurgery

Dr John Harrison
Chair, Ophthalmology

Prof. Frank Monsour
Director, Oral and Maxillofacial Surgery

Dr Sarah Watts
Acting Director, Orthopaedic Surgery

Dr Stuart Bade
Director, Plastics and Reconstructive Surgery

Dr Michael Rudd OAM
Director, Professor Stuart Pegg Adult Burns Centre

Assoc. Prof. Daryl Wall AM
Director, Trauma Service

Dr Nigel Duglison
Director, Urology

Dr Jason Jenkins
Director, Vascular Surgery

Department of Anaesthetics and Perioperative Medicine



Assoc. Prof. Michael Steyn
Director, Anaesthetics
and Perioperative Medicine

Overview

Our vision continues in our progression to be a department of academic and clinical excellence. Significant achievements continue to be made within our focus for research and quality. Individual staff achievements are as follows:

- » Dr Paul Gray's PhD was conferred in March 2012 with his thesis 'Phantom Skin Pain: Neuropathic Pain Following Burn Injury – An Examination of Incidence of Treatments.'
- » Niall Higgins has completed his PhD on an adult education project concerning foreign trained doctors.
- » Our part-time Research Nurse, Heather Reynolds, continues her PhD studies, nearing completion of data collection for her project investigating methods to secure peripheral arterial catheters.
- » Dr Marc Maguire continues his project 'Thrombelastographic evaluation of a massive transfusion protocol', funded by a \$20,000 RBWH Foundation grant.
- » Dr David Belavy, with Dr Adrian Chin, coordinate RBWH's involvement in the International Registry of Regional Anaesthesia (IRORA).
- » Dr Rajesh Brijball progresses with his central neuraxial studies and obesity research.
- » Dr Kersi Taraporewalla works with courses at the RBWH Skills Development Centre and continues with the education of foreign trained doctors.
- » Dr Victoria Eley has finished recruiting for her project of evaluating the antenatal assessment of morbidly obese parturients and continues to work with Associate Professor Diann Eley of The University of Queensland (UQ), Dr Kate Donovan, Dr Rajesh Brijball and Dr Emma Walters.
- » Dr Victoria Eley has also finished recruiting for her project of a randomised controlled trial developing a patient information video for caesarean section patients. Her co-investigators are Dr Tisha Searles, Dr Kate Donovan and Dr Emma Walters.
- » Dr Eley has also commenced a retrospective pilot study to determine the failure rate of epidural top-ups in obese patients with data collection current.
- » Dr Louisa Heard has completed an audit of our anaesthetic practice for oesophagectomies.
- » Dr Genevieve Goulding continues her role as Deputy Director (Safety), performing ongoing audits to facilitate safe anaesthetic practice.
- » Dr Linda Beckmann working with Dr Hau Tan, coordinates the RBWH Airway Workshop Course which is nationally recognised and is run four times a year. The workshop combines teaching the technical aspects of airway skills with decision making and human factors. Funds generated by the workshop are used for equipment and airway research.
- » Dr Martin Culwick runs the ANZCA web-based incident monitoring program 'WebAirs' as part of best anaesthetic practice.

We continue to perform collaborative research with QPharm, Australian e-Health Research Centre/CSIRO ICT Centre, Queensland University of Technology (QUT), UQ, Griffith University and Victoria University.

Our future is progressing with a strengthening academic, clinical and research base to our department.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Michael Steyn	MBChB, DRCOG, MRCGP, FFARCSI, FANZCA, MSc	Director, Anaesthetics and Perioperative Medicine	anaesthesia, perioperative medicine
Assoc. Prof. Kersi Taraporewalla	MBBS, FANZCA, MClined, Cert IV in TAA	Director, Teaching and Research	education, safety
Heather Reynolds	BA, BHlthSc (Nurs), MN, MAP (Health Care Research), CertTeach, CertCCN, CertAN, MRCNA, PhD Candidate	Clinical Nurse; Research Assistant	arterial catheters
Dr Rajesh Brijball	MBChB, FCASA, FANZCA, DipAnaes (SA)	Senior Staff Specialist	snoring, obesity studies, respiratory obstruction
Dr David Belavy	BMedSc, MBBS, FANZCA	Staff Specialist	regional anaesthesia
Dr Michael Edwards	BSc, MBBS, FANZCA, PGDipEcho	Staff Specialist	difficult airway management, vascular surgery, echocardiography

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Rudolf Van der Westhuizen	MBBS, FANZCA	Staff Specialist	QPharm drug trials
Dr Phil Cumptson	MBBS, FANZCA, FCICM, MScIT	Senior Visiting Medical Officer	fibreoptic intubation under general anaesthesia
Dr Rhonda Boyle	MBBS, FANZCA	Senior Staff Specialist	obstetrics
Dr Adrian Chin	MBBS, FANZCA	Staff Specialist	regional anaesthesia
Dr Marc Maguire	MBBS, FANZCA	Staff Specialist	trauma, emergency surgery and blood transfusion
Dr Hau Tan	MBBS, FANZCA	Staff Specialist	difficult airway management
Dr Linda Beckmann	MBBS, FANZCA	Staff Specialist	difficult airway management
Dr Victoria Eley	MBBS, FANZCA	Staff Specialist	difficult airway management, obstetric anaesthesia
Niall Higgins	RN, GCertH, GDipeH, PhD Candidate	Manager, e-Learning, Clinical Skills Development Service	international medical graduate specialists education
Dr Keith Greenland	MBBS, MD, FANZCA, FHKCA	Senior Staff Specialist	difficult airway management
Dr Kylie Hall	BSc (Hons), MBBS (Hons), FANZCA	Staff Specialist	ocular related injuries and intraocular complications
Dr Astley Cottrell	FANZCA	Visiting Medical Officer	novel bradykinin receptor, B2 antagonist use in the peri-operative setting

Supervised post-graduate students

Name	Current studies	Research topic
Reynolds, H.	PhD	Tissue adhesive to secure peripheral arterial lines
Higgins, N.	PhD	Adult education of foreign trained doctors

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Zhang, Y., Yi, X., He, J., Pang, C., Steyn, M.	Real-time and self-adaptive stream data analyser for intensive care management	2010 ARC Linkage Projects Scheme	\$115,000 \$115,000	2011-2012 2012-2013
Sherlock, S., Webb, R., Bourke, A., Reid, D., Dickie, G., Acton, C., King, D., Lutz, K.	Hyperbaric oxygen for treatment of radiation induced xerostomia (HOTRIX)	RBWH Research Committee	\$30,000	2012
Rickard, C., Webster, J., Marsh, N., Reynolds, H.	Securing Arterial and Venous devices Effectively in hospitals: the SAVE trial: A pilot study	Griffith Health Institute Project Grant	\$14,000	2011-2013

Publications

Greenland K. Difficult airway management in an ambulatory surgical centre. *Curr Opin Anaesth.* 2012;25:659-64.

Greenland K, Segal R, Acott C, Edwards M, Teoh W, Bradley W. Observations on the assessment and optimal use of videolaryngoscopes. *Anaesth Intens Care.* 2012;40:622-30.

Hall K. Can I go bungee jumping doc? *J Aust Soc Aerospace Med.* 2012;7:26-27.

Hall K. Therapeutic intraocular gas: when is it safe to fly? *J Aust Soc Aerospace Med.* 2012;7:28-30.

Senaratne KT, Cottrell AM, Prentice RL. Successful perioperative management of a patient with CI esterase inhibitor deficiency with a novel bradykinin receptor B2 antagonist. *Anaesth Intens Care.* 2012;40:523-526.

Department of Ear Nose and Throat Surgery

photo
unavailable

Dr Andrew Lomas
Director, Ear Nose and
Throat Surgery

Overview

The Department of Ear Nose and Throat Surgery continues to promote research particularly in head and neck surgery.

Senior researchers have several papers in press and are involved in ongoing research in relation to early diagnosis tools.

Research staff

Name	Qualifications	Position	Interests/ specialties
Dr Maurice Stevens	MBBS, FRACS	Consultant Surgeon	head and neck surgery
Dr Robert Hodge	MBBS, FRCS, FRACS	Consultant Surgeon; Senior Lecturer, UQCCR	head and neck surgery

Department of General Surgery



Dr Barry O'Loughlin
Executive Director, Surgical
and Perioperative Services

Overview

The Department of General Surgery is composed of five units:

- » Breast/endocrine
- » Laparoscopic/hepato-biliary-pancreatic
- » Colorectal
- » Upper GI
- » Acute services.

The units provide tertiary level services in most aspects of their specialty and general surgery for the whole of the Royal Brisbane and Women's Hospital and is a major referral area for Queensland.

Research staff

Name	Qualifications	Position	Interests/specialties
Owen Ung	MBBS, FRACS	Director, Centre for Breast Health, Head Breast Endocrine Unit	breast and endocrine surgery

Publications

Richards AD, Lakhani SR, James DT, Ung OA. Intraoperative imprint cytology for breast cancer sentinel nodes: Is it worth it? 2012;1445-2197.06293.x

Kahn C, Simonella L, Sywak M, Boyages S, Ung O, O'Connell D. Postsurgical pathology reporting of thyroid cancer in New South Wales, Australia. *Thyroid*. 2012;22(6):604-10.

Kahn C, Simonella L, Sywak M, Boyages S, Ung O, O'Connell D. Pathways to the diagnosis of thyroid cancer in New South Wales: A population based cross-sectional study. *Cancer Causes Control*. 2012;23:35-44.

Hansen CJ, Kenny L, Lakhani SR, Ung O, Keller J, Tripcony L, Cheuk R. Tubular breast carcinoma: An argument against treatment de-escalation. *Journal of Medical Imaging and Radiation Oncology*, 2012;56(1):116-122.



Dr Scott Campbell
Director, Neurosurgery

Overview

The Kenneth G. Jamieson Neurosurgical Unit has provided an integrated neurosurgical service to south east Queensland, northern New South Wales and the Northern Territory since 1956.

The unit consists of four full-time consultants, one Visiting Medical Officer (VMO), one university-appointed neurosurgeon, six registrars (three accredited advanced trainees and three PHOs), four residents, specialised neurosurgical theatre and ward nursing staff, physiotherapists, occupational therapists, speech pathologists, dietician, a social worker and a community liaison officer.

The unit has a 30-bed ward and is actively involved in the training of advanced neurosurgical trainees up to and including the FRACS exam.

Ongoing research includes:

- » Glioma surgical aspirate: A viable source of tumour tissue for experimental research (recently published) – Brain Cancer Research Group (Boyd, A., Campbell, S., Tolleson, G., Winter, C., Jeffree, R.L., Findlay, W., Johnson, D.)
- » Supply of clinical tissue and data for translational research – Breast Cancer Research Group (Lakani, S., Jeffree, R.L.)
- » Patient recruitment and clinical input into translational research – Evaluation of tumour segmentation (Jeffree, R.L., Winter, C.), Biomedical Imaging Group, Australian e-Health Research Centre, CSIRO
- » Cancer Epidemiology Centre – Family study of gliomas (Severi, G., Jeffree, R.L.) Associate Investigator
- » Australian genetics and clinical outcomes of glioma (Jeffree, R.L.) Advisory Committee member
- » CATNON Phase III international clinical trial (Jeffree, R.L.) Member of Australian Trial Committee
- » Remote telemedicine in neurosurgery private practice (Johnson, D.)
- » Advanced neuro-stimulation techniques for chronic lower back pain (Johnson, D.)
- » Blood brain barrier dysfunction in TBI and SAH using SPECT and DCE – MRI (Winter, C.)
- » S100B and VEGF in hypoxic brain injury (Winter, C.)
- » Computational fluid dynamics in intracranial aneurysms (Russell, J., Winter, C.)
- » An audit of ALA fluorescence guided surgery for high-grade glioma (Colditz, M., Jeffree, R.L.)
- » The pathway to diagnosis of intradural spinal tumours (Oztel, M., Jeffree, R.L.)
- » A pilot study of the role of valproate in the treatment of high-grade glioma (Fay, M., Martin, J., Winter, C., Thomas, P., Jeffree, R.L., Robertson, T., Rose, S., Buchan, C.).

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Scott Campbell	FRACS	Director, Neurosurgery	neurosurgery
Dr Craig Winter	FRACS	Staff Specialist	neurosurgery
Dr Gert Tolleson	FRACS	Staff Specialist	neurosurgery
Dr Lindy Jeffree	FRACS	Staff Specialist	neurosurgery
Dr Wendy Findlay	FRACS	Staff Specialist/University	neurosurgery
Dr David Johnson	FRACS	Visiting Medical Officer	neurosurgery
Dr Jonathan Ashish	MBBS	Senior Registrar	neurosurgery
Dr Johnny Efendy	MBBS	Senior Registrar	neurosurgery
Dr Ruwan Wijemunige	MBBS	Senior Registrar	neurosurgery
Dr Patrick Pearce	MBBS	Registrar	neurosurgery
Dr Holly Bernardi	MBBS	Registrar	neurosurgery
Dr Kirsty Hamilton	MBBS	Registrar	neurosurgery

Supervised post-graduate students

Name	Current studies	Research topic
Russell, J.	Masters (Science)	Computational fluid dynamics in intracranial aneurysms

Department of Ophthalmology



Dr John Harrison
Chair, Ophthalmology

Overview

The Department of Ophthalmology is a very busy outpatients department consisting of ten Visiting Medical Officers (VMOs), one part-time Staff Specialist, three Registrars, one Senior Registrar and two Resident Medical Officers (RMOs) in the Eye Casualty Department.

The Outpatient Department specialises in cataract surgery, retinal eye diseases, cornea, glaucoma, uveitis, neuro ophthalmology, orbital and oculo plastics, general ophthalmology and eye casualty.

The department is involved in teaching undergraduate students, RMOs and Registrars.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr John Harrison	MBBS (UQ), FRANZCO, FRACS	Chair, Ophthalmology	neuro-ophthalmology
Assoc. Prof. Lawrence Lee	MBBS, FRACS, FRANZCO	Staff Specialist	medical and surgical retinal disease
Prof. Tim Sullivan	FRANZCO, FRACS, FRCOphth	Professor of Eyelid, Lacrimal and Orbital Disease	lid disease/thyroid eye disease

Department of Oral and Maxillofacial Surgery



Prof. Frank Monsour
Director, Oral and
Maxillofacial Surgery

Overview

The Department of Oral and Maxillofacial Surgery provides the following specialist clinical services:

- » Maxillofacial trauma management
- » Maxillofacial cancer surgery
- » Maxillofacial reconstructive surgery and rehabilitation
- » Oral and maxillofacial implantation and bone-anchored prosthetic reconstruction and rehabilitation for oncology cases and wider application
- » Management of temporo-mandibular joint pathology and surgery
- » Dentoalveolar surgery (impacted teeth, bony cysts etc)
- » Management of non-malignant pathology of the jaws (benign)
- » Management of salivary gland pathology in the maxillofacial region
- » Oral medicine and rehabilitation
- » Ocularist (conjoint with ophthalmology services) and facial prosthetics
- » Facial deformity surgery.

Research interests within the department cover the whole range of services offered. Specific interests include the establishment of a statewide trauma database with research into facial trauma epidemiology and the development of biomaterials and tissue engineering.

The management of head and neck cancer, including reconstructive surgery and associated donor site morbidity, has become a focus of the unit over recent years. The consultants within the unit are frequently asked to lecture both locally, nationally and internationally.

Collaborations exist between the department and The University of Queensland (UQ) and The University of Queensland Centre for Clinical Research (UQCCR).

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Frank Monsour	AM, RFD, FRACDS, PhD, MDSc, BDS (Hons)	Director, Oral and Maxillofacial Surgery	maxillofacial trauma and reconstructive surgery
Dr Caroline Acton	BDS, FDSRCS (Eng), MDSc (Oral Surg), FRACDS (OMS)	Visiting Consultant	maxillofacial oncology
Dr Martin Batstone	MBBS, BDS (Hons) MPhil (Surg), FRACDS (OMS), FRCS (OMFS)	Senior Staff Consultant	head and neck oncology surgery and reconstruction
Dr Alan Gordon-Macleod	BDS (Lond), FDS, RCS (Ed)	Staff Consultant	dentoalveolar surgery and maxillofacial pathology
Dr Julian Hirst	MBBS, BDS, BA, BSc, FRACDS (OMS)	Staff Consultant (Locum)	
Assoc. Prof. Anthony Lynham	FRCS (Ed)	Visiting Medical Officer	maxillofacial trauma and reconstructive surgery
Assoc. Prof. Neil Savage	MDSc, PhD, FFOP(RCPA), FICD	Oral Pathologist/Consultant	oral Medicine and pathology
Prof. Patrick Warnke	DrMedHabil (MD, PhD Germany) DrMedDent (DMD Germany)	Fellow	tissue engineering and reconstructive surgery, trauma and infection
Dr George Chu	MBBS, BDS	Registrar	
Dr Geoff Findlay	MBBS, BDS	Registrar	
Dr Rachel (Jen-Ti) Hsieh	MBBS, BDS	Registrar	

Supervised post-graduate students

Name	Current studies	Research topic
Crombie, A.	Masters of Philosophy	Chemoradiotherapy for oral cavity cancer
Johnson, N.	Masters of Philosophy	A prospective study of intrabony lesions of the jaws

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Batstone, M., Johnston, N.	A prospective study of intrabony lesions of the jaws	ANZAOMS	\$10,750	2010-2012
Farah, C., Batstone, M.	Oral cavity cancer and precancer	Queensland Government smart futures program	\$1,500,000	2011-2014
Warnke, P.H.	Multi-layered tissue engineering and nano-technology for stem cell delivery in degenerative diseases	Clem Jones Estate	\$3 million	2011-2015

Publications

Alamein MA, Stephens S, Liu Q, Skabo S, Warnke PH. Mass production of nanofibrous extracellular matrix with controlled 3D morphology for large-scale soft tissue regeneration. *Tissue Eng Part C Methods*. 2012 Dec 12.

Butt A, Mahoney M, Savage NW. The impact of computer display performance on the quality of digital radiographs: a review. *Aust Dent J*. 2012;Mar;57 Suppl 1:16-23.

Crombie AK, Farah C, Tripcony L, Dickie G, Batstone MD. Primary chemoradiotherapy for oral cavity squamous cell carcinoma. *Oral Oncol*. 2012;Oct;48(10):1014-8.

Hsu E, Crombie A, To P, Marquart L, Batstone MD. Manual reduction of mandibular fractures before internal fixation leads to shorter operative duration and equivalent outcomes when compared with reduction with intermaxillary fixation. *J Oral Maxillofac Surg*. 2012 Jul;70(7):1622-6.

Johnson NR, Batstone MD, Savage NW. Management and recurrence of keratocystic odontogenic tumor: A systematic review. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2012 Jul 6.

Lynham A, Tuckett J, Warnke P. Maxillofacial trauma. *Aust Fam Physician*. 2012;Apr;41(4):172-80.

Warnke PH, Lott AJ, Sherry E, Wiltfang J, Podschun R. The ongoing battle against multi-resistant strains: In-vitro inhibition of hospital-acquired MRSA, VRE, pseudomonas, ESBL E. coli and Klebsiella species in the presence of plant-derived antiseptic oils. *J Craniomaxillofac Surg*. 2012; Nov 29.

photo
unavailable

Dr Sarah Watts
Acting Director
Orthopaedic Surgery

Overview

The Department of Orthopaedic Surgery deals with all facets of orthopaedics. It comprises an orthopaedic outpatients clinic and two dedicated orthopaedic wards, as well as beds in the infectious diseases ward.

Unique facilities and services include:

- » Tertiary referral service to Queensland and New South Wales
- » The Centre for Trauma Management
- » Reconstructive surgery and revision prosthetic surgery
- » An orthopaedic service for haemophiliacs
- » Subspeciality services, including hand surgery, upper limb surgery, knee surgery, spinal surgery, scoliosis surgery, foot surgery and a musculoskeletal service
- » Professorial and associate positions with The University of Queensland (UQ)
- » A complex total joint clinic
- » A limb reconstruction clinic
- » International trainee fellowship program management sponsored by Smith and Nephew.

Innovative clinical or management practises include:

- » Expertise in use of Ilizarov method for trauma and elective surgery
- » Fit for surgery initiative for elective surgery patients
- » The Orthopaedic Transitional Care Program for streamlining of elective arthroplasty services
- » Australian Orthopedic Association National Joint Replacement Registry participation
- » Orthowave database of total joint surgery
- » Scoliosis database management for RBWH and Royal Children's Hospital (RCH)
- » Autologous cartilage implantation
- » Orthopaedic elective case coordination and pre-admission assessment clinic
- » Orthopaedic trauma case coordination
- » Limb reconstruction service for RBWH and RCH
- » Limb reconstruction coordinator role at RCH.

Key areas of interest for research in orthopaedics include fracture healing, joint replacement, venous thromboembolic events, tissue oxygenation, skin grafting, joint replacement, scoliosis, trauma, spinal trauma, fracture assessment and classification.

Department of Clinical Research Projects in the the Department of Orthopaedic Surgery include:

- » Systematic review: Percutaneous anterior humeral Plating (Hohmann, E., Mehadrakumar, M., Miller, D., Tetsworth, K.)
- » Case-match controlled series comparing percutaneous anterior humeral plating to: (a) IM nails, (b) ORIF and (c) closed treatment (Davies, G., Mehadrakumar, M., Hohmann, E., Navalgund, V., Sivanathlu, M., Tetsworth, K.)
- » Using a medial gastrocnemius rotational myoplasty to reconstruct post-traumatic defects of the patellar tendon and extensor mechanism (Wansbrough, G., Senewiratne, S., Tetsworth, K.)
- » Acute correction of very large rotational deformities (Thorsell, J., Tetsworth, K.)
- » Reconstruction of chronic malunion/non-union of tibial plateau fractures (Birchely, A., Tetsworth, K.)
- » Clinical investigations into the nature of intra-articular fractures:
 - Distribution of intra-articular fractures – the relationship of joint architecture to the observed pattern of injury (dome vs. vault) (Steer, R., Tetsworth, K.)
 - Opology and morphology of the articular surfaces of the talar dome (Banic, G., Tetsworth, K.)
 - Mapping osteochondral injuries of the talar dome associated with pilon fractures (Russell, G., Tetsworth, F., Tetsworth, K.)
- » Staged reconstruction of chronic septic native joints using functional antibiotic spacers (Tetsworth, K.)
- » Failed treatment of orthopaedic infections: Root cause analysis (Zirardo, I., Tetsworth, K.)
- » Management of open pelvis fractures and the associated traumatic wounds (Wullschlegger, M., Brown, J., Tetsworth, K.)
- » Internal fixation of true head-splitting fractures of the proximal humerus (Rapisarda, A., Tetsworth, K.)

Overview

- » Audit of acute orthopaedic clinical activity at a major metropolitan tertiary hospital: The burden of orthopaedic infection (D'Costa, E., Tetsworth, K.)
- » Arthroscopic assisted reduction and percutaneous internal fixation of selected displaced calcaneus fractures (Sivakumar, B., Navalgund, V., Wong, P., Tetsworth, K.)
- » Precision step-cut technique for acute femoral shortening and lengthening (Cox, J., Tetsworth, K.)
- » Survey of the distribution of deformity types in clinical practice: The prevalence of rotational deformity (Ram, R., Bhattarai, I., Tetsworth, K.)
- » The burden of minor trauma cases in Queensland (Dallow, N., Lang, J., Lang, A., Tetsworth, K.)
- » CROSSBAT (Harris, I., Mittal, R.)

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Sarah Watts	MBBS, FRACS	Acting Director, Orthopaedic Surgery	orthopaedics, limb reconstruction
Prof. Kevin Tetsworth	MD, FRACS	Professor, Orthopaedic Surgery	orthopaedics, limb reconstruction
Dr Steven Yanng	MBChB, FRACS	Visiting Medical Officer, Orthopaedic Surgery	orthopaedics, spine
Dr Trevor Gervais	MBBS	Staff Surgeon	orthopaedics, upper limb
Dr Geoffrey Donald	MBBS, FRACS (Orth)	Director, Orthopaedic Surgery, Royal Children's Hospital	orthopaedics, limb reconstruction, paediatrics
Dr Brett Halliday	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, limb reconstruction
Dr Paul Pincus	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, limb reconstruction
Dr Michael Holt	MBBS, FRACS (Orth)	Staff Surgeon	orthopaedics
Dr Peter McCombe	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine
Prof. Ian McPhee	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis
Dr John Tuffley	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis, paediatrics
Dr Robert Labrom	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis, paediatrics
Dr David Bade	MBBS	Registrar	orthopaedics
Dr Shailendra Dass	MBBS	Registrar	orthopaedics
Dr Christopher Bell	MBBS	Senior House Officer	orthopaedics
Dr Hamish Gray	MBBS	Registrar	orthopaedics
Dr Brett Collins	MBBS	Registrar	orthopaedics
Dr Tony O'Neill	MBBS	Senior House Officer	orthopaedics
Dr Rohan Brunello	MBBS	Registrar	orthopaedics
Dr Daniel Bopf	MBBS	Senior House Officer	orthopaedics
Dr Catherine McDougall	MBBS	Senior House Officer	orthopaedics

Publications

Hohmann E, Bryant A, Tetsworth K. Anterior pelvic soft tissue thickness influences acetabular cup positioning with imageless navigation. J Arthroplasty. 2012;27:945-952.

Hohmann E, Hansen T, Tetsworth K. Treatment of Neer type II fractures of the lateral clavicle using distal radius locking plates combined with TightRope augmentation of the coraco-clavicular ligaments. Arch Orth Trauma Surg. 2012;132:1415-1421.

Lowe M, Meta M, Tetsworth K. Irreducible lateral dislocation of the patella with rotation. J Surgical Case Reports. 2012;3:10.

Department of Plastics and Reconstructive Surgery



Dr Stuart Bade
Director, Plastics and
Reconstructive Surgery

Overview

The Department of Plastic and Reconstructive Surgery at Royal Brisbane and Women's Hospital provides services across the breadth of the speciality, including:

- » Skin cancer management
- » Head and neck cancer management, including both extirpative and reconstructive surgery for advanced cutaneous and metastatic malignancy, salivary gland tumours and oropharyngeal malignancy
- » Hand surgery
- » Lower limb reconstruction
- » Breast reconstruction
- » Orthognathic surgery and secondary cleft lip and palate surgery
- » Craniomaxillofacial trauma
- » Burn surgery
- » Microsurgery.

Particular areas of research include the management of skin cancer and head and neck malignancy, where the department plays an integral role in the multidisciplinary Head and Neck Clinic.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Stuart Bade	MBBS, FRACS	Director, Plastics and Reconstructive Surgery	head and neck surgery, microsurgery
Dr David Campbell	MBBS, FRACS	Visiting Medical Officer	breast reconstruction, laser
Dr Eddie Cheng	MBBS, FRACS	Visiting Medical Officer	head and neck surgery, breast reconstruction
Dr William Cockburn	MBBS, FRACS	Visiting Medical Officer	head and neck surgery
Dr Raymond Goh	MBBS, FRACS	Visiting Medical Officer	orthognathic surgery
Dr Vedella Hinckley	MBBS, FRACS	Visiting Medical Officer	head and neck surgery
Dr Atul Ingle	MBBS, FRACS	Staff Specialist	burns
Dr Shireen Senewiratne	MBBS, FRACS	Visiting Medical Officer	hand surgery, lower limb reconstruction, microsurgery
Dr Robert Waiwright	MBBS, FRACS	Visiting Medical Officer	skin cancer
Dr Matthew Potter	MBBS	Fellow	
Dr Andrew Castley	MBBS	Registrar	
Dr Ajay Chahaun	MBBS	Registrar	
Dr Marcia Mickelburgh	MBBS	Registrar	
Dr Amy O'Connor	MBBS	Registrar	
Dr Matthew Peters	MBBS	Registrar	
Dr Michael Wagels	MBBS	Registrar	

Professor Stuart Pegg Adult Burns Centre



Dr Michael Rudd OAM
Director, Professor Stuart
Pegg Adult Burns Centre

Overview

Research within the Professor Stuart Pegg Adult Burns Centre occurs as part of The University of Queensland (UQ) Burns, Trauma and Critical Care Research Centre (BTCCRC).

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Michael Rudd	MBBS, FRACS, PhD, BMed Sci	Director, Professor Stuart Pegg Adult Burns Centre; Staff Specialist	sepsis, burn pathophysiology and immunobiology
Assoc. Prof. Michael Muller	MBBS, FRACS, MMed Sci	Staff Specialist	physiologic response to burns/injury and its modulation
Dr Jason Miller	MBBS, FRACS	Staff Specialist	melanoma, sarcoma
Dr Jason Brown	MBBS, FRACS, BDS (Hons)	Staff Specialist	wound healing
Dr Keith Towsey	MBBS, FRACS	Staff Specialist	trauma, burns
Michelle Spermon	BOty	MSc Student	scar maturation modulation
Anita Plaza	BPhty	Senior Physiotherapist	exercise and metabolism following burn injuries
Brooke Hoskin	BPhty	Physiotherapist	investigation of modalities for improving compliance with physiotherapy
Sharon Forbes	BSc, GradDip Nut Diet	Dietician	energy and nutritional requirements during recovery from burns
Teresa Matthews	AO	Database Manager	reducing hospital stay and rural support outpatient burns care
Allison Hill	RN	Registered Nurse	burn management
Lauren Moody	RN	Audit Manager	audit
Troy Davey	RN	Audit Manager	audit

Supervised post-graduate students

Name	Current studies	Research topic
Spermon, M.	Masters	Scar maturation modulation

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Roberts, J., Wallis, S., Rudd, M., Adnan, S.	Dosing of meropenem and piperacillin/tazobactam in critically ill patients with indwelling surgical drains	RBWH Foundation	\$20,000	2012
Muller, M., Paratz, J., Roberts, J., Dhanani, J., Towsey, K., Younger, J.	Can adrenergic blockade improve outcome in burns?	RBWH	\$35,000	2010-2016
Paratz, J., Druery, M., Plaza, A., Cohen, J., Muller, M., Stockton, K., Younger, J.	IMPACT – Improving psychological health and decreasing cardiovascular risk in patients post burns	RBWH Foundation	\$40,000	2011-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Paratz, J., Paul, S., Younger, J., Cohen, J., Muller, M.	Are burns patients at increased risk of cardiovascular disease?	RBWH Foundation	\$40,000	2012
Brown, J., Muller, M., Miller, J., Towsey, K.	Measurement of skin donor site healing, with clinical assessment, high resolution ultra-sound and transepidermal water loss	RBWH Foundation	\$28,061	2012-2013

Publications

Paratz J, Stockton K, Plaza A, Muller M, Boots R. Intensive exercise after thermal injury improves physical, functional, and psychological outcomes. *J Trauma Acute Care Surg.* 2012;73:186-94.

Patel B, Paratz J, Mallett A, Lipman J, Rudd M, Muller M, Paterson D, Lipman J, Roberts J. Characteristics of Bloodstream infections in burn patients: An 11-year retrospective study. *Burns.* 2012;38:685-90.

Patel B, Paratz J, See N, Muller M, Rudd M, Paterson D, Briscoe S, Ungerer J, McWhinney B, Lipman J, Roberts J. Therapeutic drug monitoring of beta-lactam antibiotics in burns patients - A one year prospective study. *Ther Drug Monit.* 2012;34:160-4.

Stockton K, Davis M, Brown M, Boots R, Paratz J. Physiological responses to maximal exercise testing and the Modified Incremental Shuttle Walk Test in adults following thermal injury: a pilot study. *J Burn Care Res.* 2012;33:252-58.

Trauma Service



Assoc. Prof. Daryl Wall AM
Director, Trauma Service

Overview

The RBWH Trauma Service is staffed by nursing graduates who work as Trauma Nurse Coordinators

Assistant Director of Nursing: Dale Dally-Watkins.

Surgeons: Associate Professor Cliff Pollard FRACS (previous Director); Associate Professor Daryl Wall AM, FRACS (Director, May 2012-current); Dr Keith Towsey FRACS; Dr Richard Bryant FRACS; Dr Michael Muller FRACS (Deputy Director); Dr Kong Goh (Rehabilitation Physician); Dr Fran Williamson FACEM (Emergency Physician); Dr Trent Lipp FACEM; Dr Nicholas Toalster MBBS; Dr Martin Wullschleger MBBS, MD, PhD, FMH, EBSQ; Dr Wim Ronsmans; Olivia Zheng (Statistician and Data Manager); Lisa Whittaker (Administration Coordinator).

All staff are committed to:

- » Training
- » Teaching
- » Research
- » Professional development
- » System advancement
- » Transformational negotiations.

Clinical research in 2012 was undertaken in the following aspects of trauma:

- » Queensland Trauma Registry
- » RBWH Trauma Registry
- » Cardiac Trauma Outcomes
- » Abdominal wall reconstruction after trauma
- » Management of compound and severe pelvic fractures
- » Management of extreme surgical emergencies in trauma (red blanket)
- » Mucormycosis infections
- » Eye injuries
- » Missed injuries
- » Ruptured diaphragms
- » Inter hospital transfers PhD study
- » Resuscitation
- » Long term follow up of trauma
- » Preventable injuries
- » State wide trauma network.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Daryl Wall AM	AM FRACS	Current director, Trauma Service	trauma
Assoc. Prof. Cliff Pollard	FRACS	Former Director, Trauma Service	trauma
Dr Keith Towsey	FRACS	Staff Specialist	trauma
Dr Richard Bryant	FRACS	Staff Specialist	trauma
Dr Michael Muller	FRACS	Deputy Director	trauma
Dr Kong Goh		Staff Specialist	trauma
Dr Fran Williamson	FACEM	Staff Specialist	trauma
Dr Trent Lipp	FACEM	Trainee	trauma
Dr Nicholas Toalster	MBBS	Resident	trauma
Dr Martin Wullschleger	MBBS, MD, PhD FMH, EBSQ	Trauma Registrar	trauma system, abdomino-pelvic trauma, soft tissue/fracture healing
Dr Wim Ronsmans		Staff Specialist	trauma

Supervised post-graduate students

Name	Current studies	Research topic
Ronsmans, W.	MPhil	Tyranny of distance: Delays in transfer for trauma patients
Manoharan, B.	MPhil	Microenvironment analysis of soft tissue wound healing with microdialysis

Awards and achievements

Award	Event	Name
G.S.A. Medical	2012 General Surgeons Australia Annual Scientific Congress	Wall, D.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Wullschleger, M.E., Roberts, J., Manoharan, B., Parker, T., Upton, Z., Lipman, J.	Micro-environment analysis of traumatic wounds using microdialysis to determine molecular and biochemical markers and antibiotic concentrations	RBWH Foundation	\$36,000	2012

Publications

Reichert JC, Epari DR, Wullschleger ME, Berner A, Saifzadeh S, Noeth U, Dickinson IC, Schuetz MA, Hutmacher DW. Bone tissue engineering: the reconstruction of critical sized segmental bone defects in the ovine tibia. *Orthopade*. 2012;41(4):280-7.

Sugiyama S, Wullschleger ME, Wilson K, Williams R, Goss B. Reliability of clinical assessment for assessing spinal fusion: an experimental sheep study. *Spine (Phila Pa 1976)*. 2012;37(9):763-8.

Department of Urology



Dr Nigel Dunglison
Director, Urology

Overview

Research in the Department of Urology in 2012 focussed largely on prostate cancer and was dominated by novel approaches to early detection and the randomised study of open and robotic prostatectomy. This important trial continued to progress satisfactorily through most of the year, albeit with a number of procedural delays due to multiple reasons.

The early detection research embraced a slight change in direction to include other approaches to improve further the good results obtained with mRNA profiling of ejaculate. Particular attention was directed to metabolic profiling with examination of multiple parameters concurrently through NMR spectroscopy of ejaculate and post-ejaculate urine via an active collaboration with Dr Horst Schirra at The University of Queensland's Centre for Advanced Imaging at St Lucia. The generous support of the RBWH Foundation is acknowledged for this work.

One of the highlights of the year was the awarding of an MPhil to Troy Gianduzzo by The University of Queensland for his excellent thesis 'Laser robotic-assisted laparoscopic prostatectomy'.

In terms of other publications, these included a number related to developments in robotic prostatectomy with one reporting the relationship of expertise in laparoscopic prostatectomy translated to robotic prostatectomy, another describing the methodology employed in the open and robotic prostatectomy trial and several others reporting on continuing refinements to the procedure of robotic prostatectomy.

The close ongoing association of departmental members with demographic and psycho-oncological research with colleagues at Cancer Council Queensland and Griffith University continues to be evident in the research projects and publications included in this report.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Nigel Dunglison	MB BS, FRACS	Director, Urology: Visiting Medical Officer	clinical trials
Dr Renee Stirling	BSc, PhD	Postdoctoral Research Officer	molecular biology
Dr Nigel Bennett	BSc, PhD	Postdoctoral Research Officer	data recording
Clement Chow	BSc	Research Assistant	molecular biology
Robyn Medcraft	RN	Research Coordinator	clinical Trials
Maddie Fowler		Research Assistant	clinical Trials
Prof. Frank Gardiner	MB BS, MD, FRCS, FRACS	University Medical Officer	tumour markers, clinical trials
Prof. Martin Lavin	BSc (Hons), PhD, FRAMI	University Academic Researcher	molecular biology
Dr Troy Gianduzzo	MB BS, MPhil, FRACS	Visiting Medical Officer	clinical trials
Dr Geoff Coughlin	MB BS, FRACS	Visiting Medical Officer	clinical trials
Dr John Yaxley	MB BS, FRACS	Visiting Medical Officer	clinical trials

Supervised post-graduate students

Name	Current studies	Research topic
Roberts, M.	MPhil	Early detection of prostate cancer
Gianduzzo, T.	MPhil	Laser robotic-assisted laparoscopic prostatectomy

Awards and achievements

Award	Event	Name
Inaugural Frank Gardiner Prize for Best Presentation	Northern Section of Urology Society of Australia and New Zealand ASM	Desai, D.
Masters of Philosophy (Medicine)		Gianduzzo, T.
RACS Medal and Certificate of Outstanding Service to Fellowship, Service to Royal Australasian College of Surgeons		Gardiner, R.A.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Gardiner, R., Lavin, M	Molecular profiling for prostate cancer prognosis	RBWH Foundation	\$40,000	2012
Chambers, S.K., Smith, D., Berry, M., Lepore, S., Foley, E., Occhipinti, S., Frydenberg, M., Gardiner, R.A.	A randomised trial of a mindfulness intervention for men with advanced prostate cancer	NHMRC	\$706,243	2012-2014
Hodges, P.W., Ashton-Miller, J.A., Christantinou, C.E., Gardiner, R.A., Coughlin, G.D., Sapsford, R.	Urinary continence and incontinence in men: New insights through new technologies	ARC	\$285,000	2010-2013
Gardiner, R.A., Chambers, S.K., Dunglison, N., Yaxley, J., Occhipinti, S., Carter, R., Williams, S., Lavin, M.F.	A randomised trial of robotic and open prostatectomy: Integrated multidisciplinary studies to guide patient management	Cancer Council Queensland Strategic Research Partnership Grant	\$1.25 million	2009-2014
Gianduzzo, T., Gardiner, R.A., Samarutunga, M.L.T.H., Chabert C.	The feasibility of a 532 nm laser surgery for unclamped partial nephrectomy and radical prostatectomy	American Medical Systems Research	\$355,000	2011-2016

Publications

Al Olama AA, Kote-Jarai Z, Schumacher FR, Wiklund F, Berndt SI, Benlloch S, Giles GG, Severi G, Neal DE, Hamdy FC, Donovan JL, Hunter DJ, Henderson BE, Thun MJ, Gaziano M, Giovannucci EL, Siddiq A, Travis RC, Cox DG, Canzian F, Riboli E, Key TJ, Andriole G, Albanes D, Hayes RB, Schleutker J, Auvinen A, Tammela TLJ, Weischer M, Stanford JL, Ostrander EA, Cybulski C, Lubinski J, Thibodeau SN, LSchaid DJ, Sorensen KD, Batra J, Clements JA, Chambers S, Aitken J, Robert A. Gardiner RA, Christiane Maier C, Vogel W, Dörk T, Brenner H, Habuchi T, Ingles S, John EM, Dickinson JL, Cannon-Albright L, Teixeira MR, Kaneva R, Zhang H-W, Lu Y-J, Park JY, Cooney KA, Muir KR, Leongamornlert DA, Saunders E, Tymrakiewicz M, Mahmud N, Guy M, Govindasami K, O'Brien LT, Wilkinson RA, Hall AL, Sawyer EJ, Dadaev T, Morrison J, Dearnaley DP, Horwich A, Huddart RA, Khoo VS, Parker CC, Van As N, Woodhouse CJ, Thompson A, Dudderidge T, Ogden C, Cooper CS, Lophatonanon A, Southey ML, Hopper JL, English D, Virtamo J, Marchand LL, Campa D, Kaaks R, Lindstrom S, Diver WR, Gapstur S, Yeager M, Cox A, Stern MC, Corral R, Aly M, Isaacs W, Adolfsson J, Xu JF, Zheng SL, Wahlfors T, Taari K, Kujala P, Klarskov P, Nordestgaard BG, Røder MA, Frikke-Schmidt R, Bojesen SE, FitzGerald LM, Kolb S, Kwon EM, Karyadi DM, Orntoft TF, Borre M, Rinckleb A, Luedeke M, Herkommer K, Meyer A, Serth J, Marthick JR, Patterson B, Wokolorczyk D, Spurdle A, Lose F, McDonnell SK, Joshi AD, Shahabi A, Pinto P, Santos J, Ray A, Sellers TA, Lin H-Y, Stephenson RA, Teerlink C, Muller H, Rothenbacher D, Tsuchiya N, Narita S, Cao G-W, Slavov C, Mitev V, The UK Genetic Prostate Cancer Study Collaborators/British Association of Urological Surgeons' Section of Oncology, The UK ProtecT Study Collaborators, The Australian Prostate Cancer Bioresource, The PRACTICAL Consortium, Chanock S, Gronberg H, Haiman CA, Kraft P, Easton DF, Eeles RA. A meta-analysis of genome-wide association studies to identify prostate cancer susceptibility loci associated with aggressive and non-aggressive disease. *Hum Mol Genet.* 2013;22(2):408-415. [Epub 2012 Oct 12].

Baade PD, Gardiner RA, Ferguson M, Youlden DR, Aitken JF, Yaxley J, Chambers SK. Factors associated with diagnostic and treatment intervals for prostate cancer in Queensland, Australia: A large cohort study. *Cancer Causes and Control.* 2012;23:625-34.

Baade PD, Youlden DR, Gardiner RA, Ferguson M, Aitken JF, Yaxley J, Chambers SK. Factors associated with treatment received by men diagnosed with prostate cancer in Queensland, Australia. *BJU Int.* 2012 Sep 27. doi: 10.1111/j.1464-410X.2012.01153.x. [Epub ahead of print].

Chambers SK, Ferguson M, Gardiner RA, Aitken J, Occhipinti S. Intervening to improve psychological outcomes for men with prostate cancer. *Psycho-oncology.* 2012; DOI: 10.1002/pon.3095

Coelho RF, Chauhan S, Guglielmetti GB, Orvieto MA, Sivaraman A, Palmer KJ, Rocco B, Coughlin G, Hassan RE, Dall'oglio MF, Patel VR. Does the presence of median lobe affect outcomes of robot-assisted laparoscopic radical prostatectomy? *J Endourol.* 2012;26(3):264-70.

Coelho RF, Chauhan S, Sivaraman A, Palmer KJ, Orvieto MA, Rocco B, Coughlin G, Patel VR. Modified technique of robotic-assisted simple prostatectomy: advantages of a vesico-urethral anastomosis. *BJU Int.* 2012;109(3):426-33.

Gardiner RA. Re: Prostate cancer incidence in Australia correlates inversely with solar radiation. *BJU Int.* 2012; 109 Suppl 3:71

Gardiner RA, Yaxley J, Baade PD. Integrating disparate snippets of information in an approach to PSA testing in Australia and New Zealand. *BJU Int.* 2012; 110 Suppl 4:35-7.

Gardiner RA, Yaxley J, Coughlin G, Dunglison N, Occhipinti S, Younie S, Carter R, Williams S, Medcraft RJ, Bennett N, Lavin MF, Chambers SK. A randomised Trial of Robotic and Open Prostatectomy. *BMC Cancer.* 2012; 12:189 doi:10.1186/1471-2407-12-189.

Lose F, Lawrence MG, Srinivasan S, O'Mara T, Marquart L, Chambers S, Gardiner RA, Aitken JF, Spurdle AB, Batra J, Clements JA, the Australian Prostate Cancer BioResource. The kallikrein 14 gene is down-regulated by androgen receptor signalling and harbours genetic variation that is associated with prostate tumour aggressiveness. *Biol Chem.* 2012;Apr 1;393(5):403-412. doi: 10.1515/hsz-2011-0268.

Publications

Lose F, Srinivasan S, O'Mara T, Marquart L, Chambers S, Gardiner RA, Aitken JF. The Australian Prostate Cancer BioResource, Spurdle AB, Batra J, Clements, JA. Genetic Association of the KLK4 Locus with Risk of Prostate Cancer. PLOS ONE. 2012;7(9):e44520. Epub 2012 Sep 6.

McDowell ME, Occhipinti S, Gardiner RA, Chambers SK. The early detection of prostate cancer in Australian men: the influence of family history. BJUI. 2012;109(suppl 3):64-70.

Newton RU, Taaffe DR, Spry N, Cormie P, Chambers SK, Gardiner RA, Shum D, Joseph D, Galvão DA. Can exercise ameliorate treatment toxicity during the initial phase of testosterone suppression in prostate cancer patients? Is this more effective than delayed rehabilitation and what is the time course and persistence of benefits? BMC Cancer. 2012;12(1):432.

Patterson IYL, Robertus LM, Gwynne RA, Gardiner RA. Genitourinary tuberculosis in Australia and New Zealand. BJUI. 2012;109 (suppl 3):27-30.

Wolanski P, Chabert C, Jones L, Mullavey T, Walsh S, Gianduzzo T. Preliminary results of robotic-assisted laparoscopic radical prostatectomy following fellowship training and experience in laparoscopic radical prostatectomy. BJU Int. 2012;110;Suppl 4:64-70.

photo
unavailable

Dr Jason Jenkins
Director, Vascular Surgery

Overview

During 2012, under the supervision of Professor Philip Walker, in cooperation with The University of Queensland (UQ), RBWH and with the assistance of a number of postgraduate research students, the Department of Vascular Surgery participated in a variety of research projects in the area of vascular disease.

Principal areas of research interest were aortic disease and peripheral arterial disease (PAD). Research ranged from basic science investigation into the aetiology of aortic aneurysmal disease and investigation of fatigue and blood flow in PAD, through to studies of devices for the endoluminal management of aortic pathology.

Professor Walker is a chief investigator in the NHMRC National Centre of Research Excellence to Improve Management of Peripheral Arterial Disease (<http://ncre-pad.registry.org.au/about-ncre-pad>) and through this centre has significant research collaborations with Professor Jon Gollidge's group at The James Cook University Vascular Biology Unit, Dr Chris Askew at the University of the Sunshine Coast, Professor Rob Fitridge at the University of Adelaide, Professor Bronwyn Kingwell at the Baker IDI Heart and Diabetes Research Institute in Melbourne and Professor Malcolm West's group at TPCH. These collaborations resulted in significant grant funding success in 2011, highlighted by NHMRC, BUPA Health Foundation, RBWH Foundation and TPCH Foundation funding for research into abdominal aortic aneurysms.

Research is carried out in the clinical research area in the Department of Vascular Surgery at RBWH and in The University of Queensland Centre for Clinical Research (UQCCR). Dr Kate Haigh 'Barriers to the diagnosis and screening of peripheral arterial disease by General Practitioners' and Dr Vikram Iyer 'Assessing the morphological features of ruptured and intact abdominal aortic aneurysms using computed tomography angiography: Evaluating the role of intraluminal thrombus' completed their MBBS Honours degrees at The University of Queensland.

A number of publications reporting the department members' work were concluded, highlighted by Dr Michel Hoenig's report of 'Experience with thoracic aortic stent-grafting at the Royal Brisbane and Women's Hospital: Outcomes from the first decade' in the World Journal of Cardiovascular Surgery 2012;2(3): 29-39. The department had important presentations at the Australian and New Zealand Society of Vascular Surgery's annual national scientific meeting and at a number of international scientific meetings.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Jason Jenkins	MBBS, FRACS (Vasc)	Director, Vascular Surgery	investigator in the ENGAGE: The Endurant Stent Graft Natural Selection Post-market Registry
Prof. Philip Walker	MBBS, FRACS (Vasc)	Professor, Surgery and Head, Discipline of Surgery, UQ School of Medicine and Centre for Clinical Research; Consultant Vascular Surgeon, Department of Vascular Surgery, RBWH	vascular surgery, aetiology and management of aortic aneurysmal disease, exercise physiology in peripheral arterial disease, vascular imaging, medical therapy for the vascular patient and the management of venous thromboembolic disease
Rachael Nowak	BMed, Pharm, Biotech (Hons)	Research Officer, UQ School of Medicine, Discipline of Surgery	Queensland Coordinator for NHMRC CRE for PAD projects: Telmisartan in the management of abdominal aortic aneurysm (TEDY), Fenofibrate in the management of abdominal aortic aneurysm (FAME), the role of differences in circulating factors in the pathogenesis of vascular disease
Brad Stefanovic	BSc (Sport and Exercise Science)	Research Officer, UQ School of Medicine, Discipline of Surgery	Queensland Coordinator for NHMRC CRE for PAD projects: Telmisartan in the management of abdominal aortic aneurysm (TEDY), Fenofibrate in the management of abdominal aortic aneurysm (FAME), the role of differences in circulating factors in the pathogenesis of vascular disease
Gillian Jagger	RN	Research Officer, UQ School of Medicine, Discipline of Surgery	Queensland Coordinator for NHMRC trial Evaluating a decision-making model for EVAR
Julie Jenkins	RN	Clinical Nurse Consultant, Vascular Surgery	Coordinator of vascular surgery index case databases coordinator for ENGAGE: The Endurant Stent Graft Natural Selection Post-market Registry

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Allan Kruger	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Investigator in ENGAGE: The Endurant Stent Graft Natural Selection Post-market registry
Dr Nick Boyne	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Principal Investigator in ENGAGE: The Endurant Stent Graft Natural Selection Post-market registry
Dr Wallace Foster	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	
Dr Maged Aziz	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Investigator in ENGAGE: The Endurant stent graft natural selection post-market Registry

Supervised post-graduate students

Name	Current studies	Research topic
Stefanovic, B.	PhD	Muscle fatigue in peripheral arterial disease: The roles of blood flow and muscle metabolism
McRae, P.	MPhil	Identifying interdisciplinary care needs in older surgical patients
Haigh, K.	MBBS (Hons)	Barriers to the diagnosis and screening of peripheral arterial disease by General Practitioners
Iyer, V.	MBBS (Hons)	Assessing the morphological features of ruptured and intact abdominal aortic aneurysms using computed tomography angiography: Evaluating the role of intraluminal thrombus
Chen, B.	MBBS (Hons)	Outcomes of small AAA under surveillance. Need for surgery, growth rates and cardiovascular events and correlations with differential white blood cell counts
Foot, W.	MBBS (Hons)	Vascular surgery training in Australasia. Experience and competence in open surgical procedures in the endovascular era

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Golledge, J., Walker, P.J., Ahimastos, A., Muller, R.	Fenofibrate in the management of Abdominal aortic aneurysm (FAME)	NHMRC APP1020955	\$439,735	2012-2014
Golledge, J., Norman, P., Rush, C., Walker, P.J.	Interaction between parathyroid hormone, sclerostin and the wingless pathway in abdominal aortic aneurysm	NHMRC APP1021416	\$698,300	2012-2016
Golledge, J., Norman, P., Walker, P.J., Ahimastos, A., Dalman, R.	TElmisartan in the management of abdominal aortic aneurysm (TEDY)	NHMRC APP1022752	\$1,105,893	2012-2016
Mudge, A., Walker, P.J., McRae, P., Donovan, Reade, M., Gordon, Peel, N.	An interdisciplinary model to enhance care of surgical elders	Australian Centre for Health Services Innovation (AusHSI) stimulus grants	\$75,000	2012
Golledge, J., Rush, C., Walker, P.J., Fitridge, R., Muller, R.	The role of the clotting cascade in aortic aneurysm and associated cardiovascular events	NHMRC 1003707	\$619,911	2011-2015
Golledge, J., Kingwell, B., Ahimastos, A., Walker, P., Norman, P., Tonkin, A., Reid, C., Bourke, B., Quigley, F.	National Small Abdominal Aortic Aneurysm Trial	BUPA Health Foundation Award	\$250,000	2011-2013
Askew, C.D., Golledge, J., Walker, P.J.	Muscle angiogenesis and exercise in peripheral arterial disease	NHMRC CRE in Peripheral Arterial Disease	\$30,000	2011-2013

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Askew, C.D., Golledge, J., Walker, P.J.	Muscle angiogenesis and exercise in peripheral arterial disease	QUT Institute of Health and Biomedical Innovation	\$12,000	2011-2013
Golledge, J., Kingwell, B., Norman, P., Tonkin, A., Fitridge, R., Reid, C., Walker, P.J., Hankey, G., Fletcher, J., Nelson, M.	National Centre of Research Excellence to improve management of Peripheral Arterial Diseases	NHMRC Centre for Research Excellence APP1000967	\$2,499,250	2010-2014
Boyne, N., Walker, P.J., Jenkins, J., Kruger, A.	ENGAGEL The Endurant Stent Graft Natural Selection Post-market Registry	Medtronic Bakken Research Center	€1700 per patient	2009-ongoing
Golledge, J., Norman, P., Walker, P.J., Rush, C., Dalman, R., Ott, J.	Association between obesity, TGF β , thrombospondin and small abdominal aortic aneurysm progression	NHMRC 540404	\$ 487,500	2009-2013
Fitridge, R., Boulton, M., Golledge, J., Thompson, M., Madden, G., Barnes, M., Walker, P.J. (AI)	Evaluating a decision-making model for EVAR	NHMRC 565335	\$1,036,925	2009-2013
McRae, P., Mudge, A., Walker, P.J., Peel, N.	Meeting Interdisciplinary care needs in older surgical patients	RBWH and RBWH Foundation	\$72,243	2012
West, M., Detrick, A., Nataatmadja, M., Russell, F., Walker, P.J.	Inhibition of inflammatory activity and metalloproteinase-2 (MMP2) activation limits extracellular matrix degeneration and prevents acute aortic dissection	TPCH FOUNDATION MS2011-35	\$100,000	2012

Publications

Askew CD, Stefanovic B, Russell FD, Green S, Walker PJ. Post-revascularisation exercise training for peripheral arterial disease. Proceedings 17th Annual Congress of the ECSS, Bruges, Belgium. July 4-7, 2012. Abstract-ID: 534.

Bhatt DL, Paré G, Eikelboom JW, Simonsen KL, Emison ES, Fox KA, Steg PG, Montalescot G, Bhakta N, Hacke W, Flather MD, Mak KH, Cacoub P, Creager MA, Berger PB, Steinhilber SR, Murugesan G, Mehta SR, Kottke-Marchant K, Lincoff AM, Topol EJ; on behalf of the CHARISMA Investigators. The relationship between CYP2C19 polymorphisms and ischaemic and bleeding outcomes in stable outpatients: the CHARISMA genetics study. *Eur Heart J*. 2012 Sep;33(17):2143-2150.

Biros E, Walker PJ, Nataatmadja M, West M, Golledge J. Down regulation of transforming growth factor, beta receptor 2 and Notch signalling pathway in human abdominal aortic aneurysm. *Atherosclerosis*. 2012; 221(2):383-6.

Cronin O, Bradshaw B, Iyer V, Walker PJ, Golledge J. The association of visceral adiposity with abdominal aortic aneurysm presence and growth. *ANZSVS Vascular 2012 Conference Abstracts*. Abstract VS87.

Haigh K, Bingley J, Golledge J, Walker PJ. Barriers to screening and diagnosis of peripheral arterial disease by general practitioners. *ANZSVS Vascular 2012 Conference Abstracts*. Abstract VS124.

Hoenig MR, Jenkins J, Boyne N, Kruger A, Walker PJ. Experience with thoracic aortic stent-grafting at the Royal Brisbane and Women's Hospital: Outcomes from the first decade. *World Journal of Cardiovascular Surgery*. 2012;2(3):29-39.

Ho KKF, Al-Timimi A, Walker PJ. A case of septic superficial thrombophlebitis of varicose veins associated with *Yersinia enterocolitica* and *Propionibacterium*. *EJVES Extra* 2012;24:e16-e17.

Iyer V, Jenkins J, Bradshaw B, Cronin O, Walker PJ, Golledge J. Thrombus volume is similar in patients with intact and ruptured abdominal aortic aneurysms. *ANZSVS Vascular 2012 Conference Abstracts*. Abstract VS94.

Krishna SM, Seto SW, Moxon J, Rush C, Walker PJ, Norman PE, Golledge J. Fenofibrate increased high density lipoprotein and sphingosine 1 phosphate concentrations limiting abdominal aortic aneurysm progression in a mouse model. *Am J Pathol*. 2012; 181: 706-718.

McRae P, Mudge A, Walker P, Peel N. Understanding the interdisciplinary care needs of older surgical patients. *Australasian Journal On Ageing* 2012;31:75-76.

Publications

Rai D, Wisniowski B, Bradshaw B, Velu R, Tosenovsky P, Quigley F, Walker PJ, Golledge J. Abdominal aortic aneurysm calcification and thrombus volume are not associated with outcome following endovascular abdominal aortic aneurysm repair. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS73.

Stefanovic B, Russell F, Walker PJ, Green S, Askew C. Revascularisation in peripheral arterial disease: Effect on leg blood flow, walking tolerance and calf muscle function. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS93.

Stefanovic B, Russell FD, Walker PJ, Green S, Askew CD. Revascularisation in Peripheral Arterial Disease (PAD): Effect on leg blood flow, walking tolerance and calf muscle function (Poster). Proceedings 17th Annual Congress of the ECSS, Bruges, Belgium. July 4-7, 2012. Abstract-ID: 544.

Wang Y, Krishna S, Walker PJ, Norman P, Golledge J. Transforming growth factor- β and abdominal aortic aneurysms. Cardiovasc Pathol. 2013;22(2):126-32.



Women's and Newborn Services



Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director
Women's and Newborn Services



Tami Photinos
Acting Nursing Director
Women's and Newborn Services

Overview

Women's and Newborn Services provides a wide range of healthcare services to women and their babies in Queensland. Our dedicated team have a reputation for providing quality care, research and education and we maintain a strong connection with local universities including The University of Queensland (UQ), Queensland University of Technology (QUT), James Cook University (JCU) and Central Queensland University (CQU).

2012 was another challenging year as the need for services across all departments grows increasingly complex and demanding. Despite this, we continued to maintain an active interest in research activities as well as the provision of multiple education programs for undergraduate and postgraduate health service professionals.

Key departments

- » Betty Byrne Henderson Women's Health Research Centre
- » Grantley Stable Neonatal Unit
- » Department of Gynaecology
- » Department of Maternity Services
- » Perinatal Research Centre
- » Queensland Centre for Gynaecological Cancer

Executive and directing staff

Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director, Women's and Newborn Services

Tami Photinos
Acting Nursing Director, Women's and Newborn Services

Prof. Soo-Keat Khoo
Director, Betty Byrne Henderson Women's Health Research Centre

Dr Owen Ung
Director, Centre for Breast Health

Dr David Cartwright
Director, Neonatology

Dr David Baartz
Clinical Director, Gynaecology

Assoc. Prof. Rebecca Kimble
Clinical Director, Obstetric Services

Prof. Paul Colditz
Director, Perinatal Research Centre

Assoc. Prof. James Nicklin
Clinical Director, Gynaecological Oncology

Betty Byrne Henderson Women's Health Research Centre



Prof. Soo-Keat Khoo
Director, Betty Byrne
Henderson Women's Health
Research Centre

Overview

The Longitudinal assessment of ageing in women (LAW Study), initiated in 2001, is a multidisciplinary and longitudinal assessment of a cohort of women, followed for development of serious medical outcomes.

To date, 490 of the original 511 women (95.5 per cent) are available for study. The master data-base is updated to analyse risk factors after 208 events at 12 years.

The satellite project (planned for 2013-2014) is entitled 'The rate of change of arterial stiffness in women aged 40-80 over 10 years, and effects of hormonal changes'.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof Soo-Keat Khoo	MBBS, MD, FRCOG, FRANZCOG	Director, Betty Byrne Henderson Women's Health Research Centre; Head, Obstetrics and Gynaecology, UQ	women's health
Dr Justin Oughton	MBBS	Co-director, Betty Byrne Henderson Women's Health Research Centre; Registrar	imaging
Adj. Dr Sheila O'Neill	MB, ChB, BAO, PhD	Associate	women's health
Prof. M. O'Rourke		Prof. Medicine	The University of New South Wales

Supervised post-graduate students

Name	Current studies	Research topic
O'Neill, S.	PhD	Arterial stiffness during menopause transition and beyond: Assessment of hormonal and sociodemographic factors
Oughton, J.	PhD	Relationship between hyperintensity lesions in the brain and central arterial stiffness in ageing women

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Khoo, SK	Longitudinal assessment of ageing in women (LAW Study)	RBWH Foundation	\$330,000	2011-2012

Publications

Nitz JC, Stock L, Khan A. Health-related predictors of falls and fractures in women over 40. *Osteoporosis International*. 2012;24(2):613-621, Tier A.

Lo A, H. Y., Humphreys M, Byrne G, Pachana N. Test-retest reliability and practice effects of the Wechsler Memory Scale-III. *Journal of Neuropsychology*. 2012;62:212-231.

Lo A, Pachana N, Byrne G, Sachdev, Perminder S. A review of tobacco, alcohol, adiposity, and activity as predictors of cognitive change. *Clinical Gerontologist*. 2012;35(2):148-194.

Lo A, Pachana N, Byrne G, Sachdev, Perminder S, Woodman R. Relationship between changes in body weight and cognitive function in middle-aged and older women. *International Journal of Geriatric Psychiatry*. 2012;27(8):863-872.

Wong JCH, Travers C, O'Neill S, Khoo SK. Towards validation of use of an Australian reference database for the diagnosis of osteoporosis with DXA. *Journal of Medical Imaging and Radiation Oncology*. 2012;Jun;56(3):302-4.

Grantley Stable Neonatal Unit



Dr David Cartwright
Director, Neonatology

Overview

The Grantley Stable Neonatal Unit (GSNU) at the Royal Brisbane and Women's Hospital is the tertiary referral neonatal centre for central Queensland, Brisbane to Rockhampton, specialising in the management of premature and sick babies. Its 30 intensive care beds make it the third largest intensive care nursery in Australia, and in addition there are 41 special care beds.

Admissions come mainly from the area outlined, but some are also received from southern and northern parts of Queensland, and from northern New South Wales. A retrieval service run by the unit assists in bringing outborn babies to Brisbane, transporting approximately 200 babies per year.

In 2012, there were seven full-time Neonatologists and one Visiting Medical Officer. There were two Nurse Unit Managers, one Nurse Manager, two Clinical Nurse Consultants, two full-time Nurse Educators, approximately 200 Nurses (130 full-time equivalents), of whom 85 per cent hold neonatal certificates or transition, 15 registrars, two Senior House Officers and two interns.

The unit manages all varieties of neonatal problems, with only babies requiring cardiac surgery being transferred out. Close collaboration with surgeons and medical specialists of the Royal Children's Hospital (RCH), and cardiologists and cardiac surgeons from the Mater Children's (Queensland Paediatric Cardiac Service) enhances care provision to complex cases. Most surgical procedures are performed at the Royal Children's Hospital, with the babies being immediately transferred back to the GSNU for their post-operative care.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr David Cartwright	MBBS, BSc, FRACP	Director, Neonatology; Associate Professor, UQ	general neonatology, neonatal follow up, perinatal data systems, infection
Dr Pieter Koorts	MBChB, FRACP	Deputy Director, Neonatology; Senior Staff Specialist; Senior Lecturer, UQ	general neonatology, milk bank, bedside echocardiography
Dr Garry Inglis	MBBS, FRACP	Staff Specialist; Senior Lecturer, UQ	infection
Dr Donna Bostock	MBBS (Hons), FRACP	Staff Specialist; Senior Lecturer, UQ	neonatal simulation, general neonatology
Dr Adam Hoellering	MBBCh (Hons), BSc, FRACP	Staff Specialist; Senior Lecturer, UQ	general neonatology, haemodynamic support in the newborn, persistent patent ductus arteriosus, clinical applications of ultrasound in neonates
Dr Mark Davies	MBBS, DCH, PhD, FRACP	Staff Specialist, Neonatology	RACP advanced trainee research supervision
Dr Tim Donovan	MBBS, FRACP, MPH	Staff Specialist, Neonatology	telehealth, infant nutrition, congenital anomalies
Dr Margo Pritchard	RN, RM, NNC, BA, PhD	Principal Clinical Research Trialist	RCTs, high-risk screening and surveillance

Supervised post-graduate students

Name	Current studies	Research topic
Aleksandra, S.	PhD	Antenatal psychological interventions for women with depression and anxiety to reduce the risk of preterm birth
Song, T.	Summer Student	Longitudinal autism, development and parenting study
Cumin, M.	PhD	"Growth and body composition in preterm infants" 2011- In process
Tso, G.	Honours Medicine	"Steroid Effects on Body Composition in Neonates" 2011-2012
Coe, D.	Honours Medicine	"Regional outcomes for ELBW infants" 2012

Awards and achievements

Award	Event	Name
Best Presentation in ESPNIC Category	The 4th Congress of the European Academy of Paediatric Societies (EAPS), Istanbul, Turkey	Pritchard, M.A., (deDassal, T., Johnston, L., Beller, E., Bogossian, F., Crothers, C., Hovey, D., Russo, S., Cartwright, D.)
Nominated for best ESPNIC presentations	The 4th Congress of the European Academy of Paediatric Societies (EAPS) Istanbul, Turkey	Pritchard, M.A., (deDassal, T., Johnston, L., Beller, E., Bogossian, F., Crothers, C., Hovey, D., Russo, S., Cartwright, D.)

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Pritchard, M.A., Cartwright, D., Hovey, D., Scott, J.	A longitudinal study of autism, development and parenting in preterm infants (<29 weeks) from two to four years	RBWH Foundation	\$20,000	2012
Colditz, P., Boyd, R., Sanders, M., Pritchard, M.A., Gray, P.	A randomised, controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants	NHMRC 1024345 Project Grant	\$996,337	2012-2015

Research grants

Pritchard M, Colditz P, Beller E, Tudehope D, Gray P, Cartwright D. Six-week postpartum depression predicts parenting stress profiles in mothers of preterm children. *Journal of Reproductive and Infant Psychology*. 2012;30(3):303.

Pritchard M, Kenner C. Review of Clinical Trials. *Newborn and Infant Nursing Reviews*. 2012;12(3):120-124.

Crowther C, Dodd J, Hiller J, Haslam R, Robinson J on behalf of the Birth After Caesarean Study Group (Pritchard M). Planned vaginal birth or elective repeat caesarean: Patient preference restricted cohort with nested randomised trial. *PLoS Med*. 2012;9(3): e1001192. doi:10.1371/journal.pmed.1001192

Choi W, McBride C, Bourke C, Borzi P, Choo K, Walker R, Nguyen T, Davies M, Donovan T, Cartwright D, Kimble RM. Long-term review of sutureless ward reduction in neonates with gastroschisis in the neonatal unit. *J Pediatr Surg*. 2012;47(8):1516-1520.

Davies M, Jardine LA. How to write a book review. In: Hall G, Editor. *How to write a paper*. 5th ed. Chichester, UK: John Wiley and Sons Ltd; 2012:98-101.

Davies M, Dunster K, Fraser J, Colditz P. The effects of perfluorocarbon dosing strategy on cerebral blood flow when starting partial liquid ventilation: A randomised, controlled, experimental study. *Open Journal of Pediatrics*. 2012;2(3):197-213.

Risson D, Davies M, Williams B. A review of neonatal alloimmune thrombocytopenia (NAIT). *J Paediatr Child Health*. 2012;48(9):816-822.

Risson D, Williams B, Davies M. An introduction to the Australian NAIT Registry. *J Paediatr Child Health*. 2012;48(9):716.

Davies M. Water births and the research required to assess the benefits versus the harms. *J Paediatric Child Health*. 2012;48(9):726-729.

Davies M, Inglis G, Jardine L, Koorts P, editors. *Antenatal Consults: A guide for neonatologists and paediatricians*. Sydney: Elsevier Australia; 2012.

Jardine L, Davies M. Breathing problems in the newborn. In: South M, Isaacs D, editors. *Practical Paediatrics*. 7th ed. UK: Churchill Livingstone Elsevier; 2012:352-362.

Stewart A, Inglis G, Jardine L, Koorts P, Davies M. Prophylactic antibiotics to reduce morbidity and mortality in newborn infants with intercostal catheters. *Cochrane Database Syst Rev* 2012, Issue 4. Art. No.: CD008173. DOI: 10.1002/14651858.CD008173.pub2.

Mills R, Davies M. Enteral iron supplementation in preterm and low birth weight infants. *Cochrane Database Syst Rev* 2012, Issue 3. Art. No.: CD005095. DOI: 10.1002/14651858.CD005095.pub2.

Davies M. Partial liquid ventilation in the extremely preterm infant: potential benefits and harms. In: Irusen EM, editor. *Lung Diseases*. Rijeka: InTech. 2012:505-522.

Hough J, Shearman A, Jardine L, Davies M. Humidified high flow nasal cannulae: survey of current practice in Australasian nurseries. *J Paediatr Child Health* 2012;48(2):106-113.

New K, Flint A, Bogossian F, East C, Davies M. Transferring preterm infants from incubators to open cots at 1600 grams: A multicentre randomised controlled trial. *Arch Dis Child Fetal Neonatal Ed*. 2012;97(2):F88-F92.

Jardine L, Cartwright D, Dunster K, Davies M. Measurement of inspired gas temperature in the ventilated neonate. In: Esquinas A, editor. *Humidification in the Intensive Care Unit*. Berlin: Springer; 2012:267-270.

Donovan T, Buchanan K. Medications for increasing milk supply in mothers expressing breastmilk for their preterm hospitalised infants. *Cochrane Library (Review)*, DOI: 10.1002/14651858.CD005544.pub2. 2012.

Donovan T, Armfield N. A telefuture. *Medical Journal of Australia Insight*. 2012 Feb http://www.mjainsight.com.au/view?post=tim-donovan-nigel-armfield-a-tele-future&post_id=8249&cat=comment

Donovan T, Armfield N, Coghill K, Vander Westhuysen, Hurley T, Rogers D. Remote management of ill infants by telemedicine: Improving access and outcome in a vulnerable patient group. *Journal of Paediatrics and Child Health*. 2012;48(Suppl. 1).

Armfield N, Donovan T, Bensink M, Smith A. The costs and potential savings of telemedicine for acute care neonatal consultation: Preliminary findings. *Journal of Telemedicine and Telecare*. 2012;10.1258/jtt.2012.GTH101 <http://jtt.rsmjournals.com/cgi/content/abstract/jtt.2012.GTH101v1>.

Choi W, McBride C, Bourke C, Borzi P, Choo K, Walker R, Nguyen T, Davies M, Donovan T, Cartwright D, Kimble R. Long-term review of sutureless ward reduction in neonates with gastroschisis in the neonatal unit. *Journal of Pediatric Surgery*. 2012;47(8):1516-1520.

Department of Gynaecology



Dr David Baartz
Clinical Director, Gynaecology

Overview

The Department of Gynaecology at RBWH continues to provide secondary, tertiary, and quaternary care in all disciplines of gynaecology including general gynaecology colposcopy, advanced laparoscopic surgery and endometriosis services, as well as acute and emergency care, prolapse and incontinence surgery.

A paediatric and adolescent gynaecology statewide service is provided by Associate Professor Rebecca Kimble to patients from Queensland and northern New South Wales. This multi-disciplinary service is supported by specialists from the Royal Children's Hospital and Dr David Baartz, Clinical Director, Department of Gynaecology.

Reproductive endocrinology and infertility is a division of the Department of Gynaecology. This division pertains to all aspects of human reproduction, fertility preservation and reproductive endocrinology.

Dr David Baartz is the Executive Officer of the Australasian International Society of the Study of Trophoblastic Diseases.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr David Baartz	MBBS, FRANZCOG	Clinical Director, Gynaecology; Director, Queensland Trophoblastic Centre	gynaecology, urogynaecology, gestational trophoblastic disease
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRACOG, FRCOG, PhD	Senior Staff Specialist	medical conditions and their effect on pregnancy, medical education, general obstetrics and gynaecology
Assoc. Prof. Rebecca Kimble	MBBS, FRANZCOG, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction (Harvard)	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service; Assoc. Prof. UQ School of Medicine.	clinical governance, maternity emergencies in a simulated environment, adolescent gynaecology, and Member of North American Society for Paediatric and Adolescent Gynaecology
Assoc. Prof. Mark Erian	LRCP, LRCS, LRCPS, DObstRCPI, MD (Univ QLD), FRANZCOG, FRCOG, FACOG, Grad Cert Education	Senior Consultant; Obstetrician; Gynaecologist	Gynaecological operative endoscopy, surgical gynaecology, high-risk obstetrics, medico-legal consultations
Dr Kar Hin Ooi	MBBS, MRCOG, FRANZCOG	Senior Staff Gynaecologist	gynaecology, urogynaecology
Dr Adrian Guest	MBBS, FRANZCOG	Visiting Gynaecologist	gynaecology
Dr Akram Khalil	MBBS, DRACOG, FRANZCOG	Consultant Gynaecologist	gynaecology, colposcopy, urogynaecology
Dr Yogesh Chadha	FRCOG, MSc, FRANZCOG	Senior Staff Specialist; Senior Lecturer, UQ	perinatology, incontinence, medical audit, health services research
Dr Lee Minuzzo	MBSS, FRANZCOG, Grad Cert Education	Staff Specialist	general obstetrics and gynaecology
Dr Wai Lum Yip	MBBS, FRANZCOG	Staff Specialist	general obstetrics and gynaecology, medical education, high risk obstetrics
Assoc. Prof. Anusch Yazdani	MBS (Hons), FRANZCOG, CREI	Visiting Gynaecology	subspecialist in reproductive endocrinology and infertility
Assoc. Prof. Philip Barton Clarke	MB, MMedSci (Urogyn), FRCSC, FRACS, FRCOG, FRANZCOG	Clinical Director, Urogynaecology	urogynaecology
Assoc. Prof. Christopher Maher	FRANZCOG, CU	Visiting Medical Officer	urogynaecology
Dr Bart Schmdit	MBBS, FRANZCOG	Staff Specialist	general obstetrics and gynaecology
Dr Owen Ung	FRACS	Director, Centre for Breast Health	breast health
Dr Ben Kroon	MBBCh, FRANZCOG CREI	Specialist	fertility and endocrinology
Dr Simon McDowell	MBBCh, FRANZCOG	Fellow	

Awards and achievements

Award	Event	Name
AGES Travelling Fellowship	AGES Annual Scientific Meeting	Kroon, B.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Yazdani, A., Kroon, B.	The impact of fatigue on surgical performance	AGES Research Foundation	\$15,000	2011-2012
Khalil, A.	Pilot study for exploring the ergonomic and clinical outcomes of robotic versus laparoscopic for hysterectomy for benign gynaecological disease quantifying biomechanical exposure	RBWH Foundation	\$20,000	2010-2013
Khalil, A.	Hold three day workshop, laparoscopic dry lab for RBWH, animal laparoscopic workshop and live laparoscopic surgical workshop	Baxter and Olympus	\$20,000	2012
Khalil, A., Khoo, S.	Phase 3 A clinical trial involving a small-size small dose progesterone slow release IUCD multi-centre, open label, single arm study to assess efficacy, safety, bleeding pattern and pharmacokinetics of the ultra low dose levonorgestrel intrauterine contraceptive system (LCS) for a maximum of three years in women 18 to 40 years of age	Bayer	\$50,000	2012-2013

Publications

- Jones A, Jones I. Managing the early puerperium. *Medicine Today*. 2012;13:4:31-40.
- Jones I. Skin infections of the vulva. *Medicine Today*. 2012;13:5:27-34.
- Jones I, Crandon A, Sanday K. Melanoma of the Vulva: A retrospective study of 46 cases from Queensland. *Open J Obstet Gynecol*. 2012;2:120-126.
- Jones I, Crandon A, Sanday K. Basal cell carcinoma of the vulva. *Open J Obstet Gynec*. 2012;2:136-139.
- Jones I, Jones AI. Vulval dystrophies: A long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:210-212.
- Jones I. Influences on the study of Vulvar Anatomy. *Open J Obstet Gynec*. 2012;2;3:223-226.
- Jones I. Melanosis of the vulva: A small, long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:247-249.
- Jones ISC. A Review of conditions altering the permanent appearance of the vulva. *Open J OandG*. 2012;2:4:382-384.
- Jones I, Crandon A, Sanday K. Bartholin's gland carcinomas: A 20 plus-year experience from Queensland. *Open J Obstet Gynec*. 2012;2:4:385-388.
- Jones ISC, O'Connor AE. Non-Obstetric Vulvar Trauma. *Emergency Medicine Australasia* 2012. published on line 29 Nov.
- Koch J, Rowan K. et al. Endometriosis and infertility - A consensus statement from ACCEPT (Australasian CREI Consensus Expert Panel on Trial evidence). *Aust N Z J Obstet Gynaecol*.
- Kroon B, Hart RJ et al. Antibiotics prior to embryo transfer in ART. *Cochrane Database Syst Rev* 3: CD008995. 2012.
- Kroon B, Kroon F et al. Post-mortem sperm retrieval in Australasia. *Aust N Z J Obstet Gynaecol*. 2012;52(5):487-490.
- Jones A, Jones I. Managing the early puerperium, *Medicine Today*, 2012, 13: 4:31 – 40.
- Jones I. Skin infections of the vulva. *Medicine Today*, 2012, 13; 5:27 – 34.
- Jones I, Crandon A, Sanday K. Melanoma of the Vulva: A retrospective study of 46 cases from Queensland. *Open J Obstet Gynecol*. 2012;2:120-126.
- Jones I, Crandon A, Sanday K. Basal cell carcinoma of the vulva. *Open J Obstet Gynec*. 2012;2:136-139.
- Jones I, Jones AI. Vulval dystrophies: A long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:210-212.
- Jones I. Influences on the study of Vulvar Anatomy. *Open J Obstet Gynec*. 2012;2;3:223-226.
- Jones I. Melanosis of the vulva: A small, long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:247-249.
- Jones ISC. A Review of conditions altering the permanent appearance of the vulva. *Open J OandG*. 2012;2:4:382-384.
- Jones I, Crandon A, Sanday K. Bartholin's Gland Carcinomas: A 20 plus-year experience from Queensland. *Open J Obstet Gynec*. 2012;2:4:385-388.

Publications

Jones ISC, O'Connor AE. Non-Obstetric Vulvar Trauma. Emergency Medicine Australasia 2012. published on line 29 Nov.

Koch J, Rowan K et al. Endometriosis and Infertility - A consensus statement from ACCEPT (Australasian CREI Consensus Expert Panel on Trial evidence). Aust N Z J Obstet Gynaecol. 2012.

Kroon B, Hart RJ et al. Antibiotics prior to embryo transfer in ART. Cochrane Database Syst Rev 3: CD008995. 2012.

Kroon B, Kroon F et al. Post-mortem sperm retrieval in Australasia. Aust N Z J Obstet Gynaecol. 2012;52(5):487-490.



Assoc. Prof. Rebecca Kimble
Clinical Director,
Obstetric Services

Overview

The Department of Maternity Services at RBWH encompasses many major multidisciplinary services. It has continued to have increasing activity over the last few years.

It remains the largest provider of tertiary and quaternary obstetric care in Queensland with a referral base for tertiary transfers of care primarily from around Central Area Health Service; however northern New South Wales patients continue to be serviced through RBWH Maternity Services.

The multidisciplinary services include:

- » Birthing Services
- » Birth Centre
- » Antenatal Day Assessment Service
- » Obstetric Review Centre
- » Obstetric Medicine Services and Obstetric Telehealth Services
- » Maternal Fetal Medicine and Centre for Advanced Prenatal Care
- » Maternity Outpatients Service
- » Endocrine Service
- » Young Parents Program
- » General Practitioner shared care program
- » Team midwifery models in conjunction with obstetric care
- » Extended Midwifery Services
- » Inpatient Unit
- » Wellborn Nursery
- » Lactation Service.

Maternity Services collaborate closely with the Perinatal Research Centre for ongoing multi-centre research projects.

The Maternal Fetal Medicine unit provides a comprehensive and competitive environment to provide prospective and retrospective research/audit.

Currently there are three ongoing prospective research activities and retrospective research review performed by the fellows and consultants. Audits are performed by residents who rotate through the Maternal Fetal Medicine (MFM) Unit.

The Obstetric medicine unit is active in clinical and basic science research across all medical problems which occur throughout pregnancy. A number of PhD candidates are currently undertaking research in areas related to maternal medical conditions in pregnancy and the effects on pregnancy outcomes. The unit has been successful in numerous research grants including NHMRC grants and RBWH grants. The unit undertakes six obstetric medicine clinics per week and two telehealth clinics to regional and rural Queensland.

Statewide Paediatric and Adolescent Gynaecology Service

Established by Associate Professor Rebecca Kimble, this is the only service in Queensland, and supports patients from northern New South Wales. This service provides super-specialty care to girls between the ages of eight years to mid twenties with complex congenital surgical conditions, disorders of sexual development, disabled patients, menstrual abnormalities and many other gynaecological conditions.

It has been awarded site-specific grants by Queensland Health commencing in 2011, recognising it as a super-specialty. The Commonwealth Department of Health and Aging (DoHA) has granted it a RANZCOG accredited funded Fellow's position commencing 2011 for three years, with a high likelihood for continuation indefinitely.

Further support for the expanding service has been provided by Queensland Health in funding a new specialist position commencing 2012-2013 after negotiation between Professor Kimble and Queensland Health Director-General. This should allow the establishment of a Statewide Telehealth Service.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Rebecca Kimble	MBBS, FRANZCOG, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction (Harvard) Prince 2 Project Management, Managing Successful Programs (MSP)	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service, Assoc. Prof. UQ School of Medicine, Qld Founder and Director, Queensland Maternity and Neonatal Clinical Guidelines Program, Chair, Statewide Maternity and Neonatal Clinical Network	clinical governance, maternity emergencies in a simulated environment, paediatric and adolescent gynaecology, member of North American Society for Paediatric and Adolescent Gynaecology
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRACOG, FRCOG, PhD	Senior Staff Specialist	medical conditions and their effect on pregnancy, medical education, general obstetrics and gynaecology
Dr Yogesh Chadha	FRANZCOG, MSc, FRCOG	Senior Staff Specialist	obstetrics and gynaecology
Dr Karin Lust	MBBS, FRACP	Clinical Director of Obstetric Medicine and General Physician	medical disorders in pregnancy, preconception counseling, contraception
Assoc. Prof. Leonie Callaway	MBBS, FRACP	General Physician and Obstetric Physician Head, Royal Brisbane Clinical School	obstetric medicine obesity
Dr Carol Portmann	MBBS, FRANZCOG, CMFM, MSc	Staff specialist	previable IUGR, termination of pregnancy, Fetal medicine
Dr Greg Duncombe	MBBS, FRANZCOG, CMFM	Maternal Fetal Medicine, Staff Specialist P/T	maternal fetal medicine
Dr Renuka Sekar	MBBS, FRANZCOG, CMFM	Maternal Fetal Medicine, Staff Specialist	talipes, ventriculomegaly
Dr Johanna Laporte	DipGynObs, FRANZCOG	Staff Specialist Obstetrics	maternal and fetal medicine
Dr Ranjit Singh	MBBS	Honorary MFM Registrar	ultrasound
Dr Andreas Lee	FRANZCOG	Staff Specialist	radiology and ultrasound
Dr Narelle Fagermo	MBBS, FRACP	General Physician and Obstetric Physician	obstetric medicine
Dr Penny Wolski	MBBS, FRACP	Endocrinologist and Obstetric Physician	obstetric medicine
Dr Helen Barrett	MBBS, FRACP	Endocrinologist and Obstetric Physician	obstetric medicine
Dr Marloes Dekker Nitert	PhD Biomedicine	Senior postdoctoral researcher at UQCCR	obesity pregnancy complications and pregnancy outcomes
Katie Foxcroft	RN, RM	Coordinator Nurse Research	obstetric medicine, clinical trials
Dr David Danon	MD, DGO, UDG	MFM Registrar/Researcher Fellow	twin-twin transfusion syndrome
Prof. Nicholas Fisk	PhD, MBA, MBBS,FRANZCOG, CMFM, DDU, GAICD	Seniors Staff Specialist	monochorionic placentation, fetal stem cells
Dr David Danon	MD, DGO, UDG	Registrar, Maternal Fetal Medicine	fetal stem cells
Jatin Patel	PhD	Post-doctoral Researcher	fetal stem cells
Dr Edwige Roy	PhD	Post-doctoral Researcher	fetal stem cells
Dr Allison Pettit	PhD	Lecturer	fetal stem cells, bone repair
Dr Eliza Raggatt	PhD	Lecturer	fetal stem cells, bone repair
Dr Rebecca Pelekanos	PhD	Post-doctoral Researcher	fetal stem cells
Dr Susan Millard	PhD	Post-doctoral Researcher	fetal stem cells
Samuel Jesuadian	MSc	Research Assistant	fetal stem cells
Rebecca Ellis	MSc (Hons)	Research Assistant	fetal stem cells

Supervised post-graduate students

Name	Current studies	Research topic
Tapasi, B., Kimble, R.M.N.	Fellow in Paediatric and Adolescent Gynaecology (PAG)	A five-year review of management of all patients through the PAG service presenting with a request for ammenorrohea
McRae R., Kimble, RMN.	Fellow in Paediatric and Adolescent gynaecology (PAG)	Bladder Extrophy repair history in the pregnant patient, case series and literature review
Sabdia, S., Kimble, RMN.	Principal House Officer (PHO)	Review of all paediatric and adolescent gynaecology patients who have had surgery for the TRIAD of, uterus didelphys obstructed hemivagina and ipsilateral renal anomaly
Sekar, R., Duncombe, G.	Fetal Weight Study	Accuracy of estimated fetal weight prior to delivery
Laporte, J., Fisk, N	Monochorionic Twins	MCA PSV in predicting polycythemia in MCDA twins
Danon, D., Fisk, N.	MCDA twin placental study	Transfusional complications in complicated MCDA twins and complications in medical termination of pregnancy with previous caesarean section
deJersey, S.	PhD	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy
Denny, K.	PhD	Role of C5a in Fetal and Maternal Health
Barrett, H.	PhD	Maternal lipids in pregnancy
Harris, L.	PhD	Pre-eclampsia: Early identification of at-risk patients and clinical implications
Achong, N.	PhD	Insulin requirements in the peripartum period in Type 1 diabetes mellitus
Sardesai, V.	PhD	Determining the molecular mechanisms of mesenchymal stem cell lineage commitment and osteogenesis
Sepannan, E.	PhD	The contribution of microchimeric fetal stem cell sub-populations to maternal tissue repair

Awards and achievements

Award	Event	Name
ADIPS Emerging Investigator Award	2012 Australasian Diabetes in Pregnancy Society Annual Scientific Meeting, Gold Coast.	Barrett, H
IADPSG travel grant	ADIPS 2012	Barrett, H

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Kimble, R.M.N.	Queensland Maternity and Neonatal Clinical Guidelines Program Recurrent for three years (1.5 M)	Queensland Health	\$500,000	2011-2014
Kimble, R.M.N., Cartwright, D.	Rolling out "train the trainer" program for Neoresus (Victorian program)	Queensland Health	\$42,000	2012-2013
Kimble, R.M.N.	Tissue engineering a vaginal graft	RBWH Foundation Grant	\$35,000	2012
Kimble, R.M.N.	Fellow in Statewide Paediatric and Adolescent Gynaecology Services	Commonwealth STP funds	\$110,000 recurrent	2011-2013
Kimble, R.M.N.	Providing STP Training in Paediatric and Adolescent Gynaecology	Commonwealth funds	\$20,000	2012
Kimble, R.M.N.	For a new specialist to sustain the Statewide Paediatric and Adolescent Gynaecology service	Queensland Health	\$380,000	2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Kimble, R.M.N.	Aboriginal and Torres Strait Islander Health Workforce capacity Building-Perinatal Social and Emotional Wellbeing (Statewide) Project	Queensland Health	\$102,480	2011-2013
Kimble, R.M.N.	For providing STP Training in Paediatric and Adolescent Gynaecology	Commonwealth funds	\$12,000	2012-2013
Kimble, R.M.N.	For implementation of 5 antenatal clinical indicators from Statewide Pregnancy Health Record RBWH	CPIP funds	\$86,000	2012- 2013
Kimble, R.M.N.	For implementation of five antenatal clinical indicators from Statewide Pregnancy Health Record Statewide	CPIP funds	\$500,000	2012-2013
Danon, D.	Transcriptional discordancy in placentas complicated by TTTS or SGR in MCDA twins	Wiseman Trust	\$200,000	2011-2013
Barrett, H.L., Callaway, L.K., de Jersey, S.J., Lingwood, B., Dekker, N.M., D'Emden, M.	Impact of metformin treatment for gestational diabetes on gestational lipid metabolism and infant body composition: A prospective observational study.	RBWH Foundation	\$40,000	2012
Barrett, H.L., Dekker, N.M., Callaway, L.K.	Placental Lipases.	Pfizer Australia Cardiovascular Lipid Research Grant	\$39,000	2012
Barrett, H.	PhD studies	Medical and Dental Research Scholarship for PhD studies	\$32,000 year	2011-2014
Taylor, S.M., Woodruff, T.M., Callaway, L.K., Finnell, R.H.,	Inflammation and Placental Dysfunction. Inflammation of the womb during pregnancy and reproductive consequences.	NHMRC	\$967,750	2009-2013
Mamun, A.A., O'Callaghan, M., Najman, J.M., Alata, R., Williams, G.M., Clavarino, A., McIntyre, H.D., (Assoc. Investigator: Callaway, L.)	Early origins, progression and aetiology of obesity, metabolic syndrome and diabetes: A 30-year follow-up study.	NHMRC	\$1,151,675	2010-2014
Willmott, L., White, B.P., Gallois, C., Parker, M., Graves, N., Winch, S., (Industry partner: Callaway, L.)	Futile treatment at the end-of-life: legal, policy, sociological and economic perspectives.	ARC Metro North	\$268,000 \$150,000	2012-2014
Callaway, L., McIntyre, H.D., Dekker, N.M., Tobin, J., O'Rourke, P., Wilkinson, S., McSweeney, C.	Probiotics and gestational diabetes mellitus.	NHMRC	\$828,718	2012-2014
Callaway, L	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies?	RBWH Foundation	\$150,000	2012
Callaway, L	Grant to write the RBWH Research Report.	RBWH Private Practice Trust Fund	\$10,000	2012
Callaway, L., Rice, G., Mitchell, M., Harris, L.,	Investigating the link between early pregnancy and obstetric disease.	RBWH Foundation	\$38,404	2012
Suhrbier, A., Callaway, L.,	Serpins and Preeclampsia.	QIMR-Clinician Collaborative Research Award	\$34,200	2012
Weinstein, P., Fisk, N.M., Cook, A. Nieuwenhuijsen, M., Nassar, D., Dobson, A.	Prospective study of birth defects from fetotoxic agents in the public water supply	NHMRC	\$703,000	2011-2014

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Fisk, N.M., Pettit, A., Khosrotehrani, K., Raggatt, L.	Preclinical optimisation of intrauterine transplantation of fetal mesenchymal stem cells for osteogenesis imperfecta	NHMRC	\$579,000	2010-2012
Fisk, N.M., Bou-Gharios, G., Khosrotehrani, K.	Functional contribution of fetal microchimeric cells in transgenic models of maternal tissue repair in and after pregnancy	NHMRC	\$545,000	2009-2011
Chan, J., Choolani, M.A., Fisk, N.M.	Generation of highly osteogenic bone tissue-engineering graft for treatment of clinical bone defects	NMRC (Singapore)	SG\$1.4 million	2011-2013
Cooper-White, J. Fisk, N.M., Grondahl, L., Wolvetang, E.J.	Scalable, high throughput microfluidic platforms for tissue specific biomaterials development and tissue genesis	Australian Research Council (ARC)	\$400,000	2010-2013

Publications

Achong N, Callaway L K, d'Emden M, McIntyre HD, Lust K, Barrett HL. Insulin requirements in late pregnancy in women with type 1 diabetes mellitus: A retrospective review. *Diabetes Research and Clinical Practice*. 2012;98(3):414-421.

Achong N, d'Emden M, Fagermo N, Mortimer R. Pregnancy-induced Cushing's syndrome in recurrent pregnancies: Case report and literature review. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2012;52(1):96–100.

Barrett HL, Callaway LK, Nitert D. Probiotics: A potential role in the prevention of gestational diabetes? *Acta Diabetol*. 2012;49(1):1-13.

Barrett HL, Dekker Nitert M, Callaway L, Conwell LS. Probiotics for the prevention of gestational diabetes: Cochrane Review. *Cochrane Database of Systematic Reviews* DOI: 10.1002/14651858.CD009951

Barrett HL, Devin R, Clarke S, Dekker Nitert M, Boots R, Fagermo N, Callaway LK, Lust K. A fifteen-year retrospective review of obstetric patients requiring critical care. *Obstet Med*. 2012;5:166-170.

Barrett HL, Gatford, KL, Houda CM, De Blasio MJ, McIntyre HD, Callaway LK, Dekker Nitert M, Coat S, Owens JA, Hague WM, Rowan J. Maternal and neonatal circulating markers of metabolic and cardiovascular risk in the Metformin in Gestational diabetes (MiG) trial: Responses to maternal metformin vs. insulin treatment. *Diabetes Care*. 2012;Mar;36(3):529-36.

Bourne N, Groves A, McIntyre HD, Callaway L. *Am J Clin Nutr* February. 2012;95(2):529-531.

de Jersey SJ, Nicholson JM, Callaway LK, Daniels L. A prospective study of pregnancy weight gain in Australian women. *Aust NZ J Obstet Gynecol*. 2012;52(6):545-51.

Hollingsworth K, Callaway L, Duhig M, Matheson S, Scott J. The association between maltreatment in childhood and pre-pregnancy obesity in women attending an antenatal clinic in Australia. *PLoS One*. 2012;7(12):e51868.

Hayashia Y, Lipman J, Udy A, Ng M, McWhinney B, Ungerer J, Lust K, Roberts J. Beta-lactam therapeutic drug monitoring in the critically ill: Optimising drug exposure in patients with fluctuating renal function and hypoalbuminaemia. *Int J Antimicrob Agents*. 2012.

Jones GN, Moschidou D, Puga-Iglesias TI, Kuleszewicz K, Vanleene M, Shefelbine SJ, Bou-Gharios G, Fisk NM, David AL, De Coppi P, Guillot PV. Ontological differences in first compared to third trimester human fetal placental chorionic stem cells. *PLoS One*. 2012;7(9).

Kimble, RM (Founder and Director, Clinical Lead, working party member) and Queensland Maternity and Neonatal Clinical Guidelines Program <http://www.health.qld.gov.au/qcg> and NHMRC Portal www.clinicalguidelines.com.au

Queensland Maternity and Neonatal Clinical Guideline and Supplement Intrapartum Fetal Surveillance

Queensland Maternity and Neonatal Clinical Guideline and Supplement Normal Birth

Queensland Maternity and Neonatal Clinical Guideline and Supplement Perineal Care

Queensland Maternity and Neonatal Clinical Guideline and Supplement Primary Postpartum Hemorrhage (review)

Queensland Maternity and Neonatal Clinical Guideline and Supplement Stillbirth Care (review)

Lingwood BE, Storm van Leeuwen AM, Carberry AE, Fitzgerald EC, Callaway LK, Colditz PB, Ward LC. Prediction of fat-free mass and percentage body fat in neonates using bioelectrical impedance analysis and anthropometric measures: Validation against the PEA POD. *Br J Nutr*. 2012;107(10):1545-52.

Liu Y, Teoh SH, Chong MS, Lee ES, Mattar CN, Randhawa NK, Zhang ZY, Medina RJ, Kamm RD, Fisk NM, Choolani M, Chan JK. Vasculogenic and osteogenesis-enhancing potential of human umbilical cord blood endothelial colony-forming cells. *Stem Cells*. 2012;30(9):1911-24.

McIntyre HF, Gibbons KS, Flenady VJ, Callaway LK. Overweight and obesity in Australian mothers: Epidemic or endemic? *Med J Aust*. 2012;196(3):184-188.

Publications

Moschidou D, Jones G, Lay K, Abdulrazzak H, Vanleene M, Shefelbine SJ, Polak J, de Coppi P, Fisk NM, Guillot P. Upregulating CXCR4 in Human Fetal Mesenchymal Stem Cells Enhances Engraftment And Bone Mechanics In a Mouse Model of Osteogenesis Imperfecta. *Stem Cells Translational Medicine*. 2012;1:70-78.

Moschidou D, Mukherjee S, Blundell MP, Drews K, Jones GN, Abdulrazzak H, Nowakowska B, Phoolchand A, Lay K, Ramasamy TS, Cananzi M, Nettersheim D, Sullivan M, Frost J, Moore G, Vermeesch JR, Fisk NM, Thrasher AJ, Atala A, Adjaye J, Schorle H, De Coppi P, Guillot PV. Valproic acid confers functional pluripotency to human amniotic fluid stem cells in a transgene-free approach. *Molecular Therapy*. 2012;20(10):1953-67.

Pelekanos R, Chen YS, Ellis RL, Jesuadian S, Horne R, Wolvetang EJ, Fisk NM. Small molecule mesengenic induction of human induced pluripotent stem cells to generate mesenchymal Stem/ Stromal Cells. *Stem Cells Translational Medicine*. 2012;1:83-95.

Ryan J, Pettit A, Guillot PV, Chan J, Fisk NM. Unravelling The Pluripotency Paradox In Fetal and Placental Mesenchymal Stem Cells: Oct-4 Expression and The Case Of The Emperor's New Clothes. *Stem Cells Review and Reports*. (Epub) 2012.

Seppanen EJ, Hodgson SS, Khosrotehrani K, Bou-Gharios G, Fisk NM. Fetal microchimeric cells in a fetus-treats-its-mother paradigm do not contribute to dystrophin production in serially parous mdx females. *Stem Cells Development*. 2012;10;21(15):2809-16.

Tathem K, Harris L, O'Rourke P, Kimble RMN. Dinoprostone vaginal pessary for induction of labour: Safety of use for up to 24hrs. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2012;52:582-587.

Zhang ZY, Teoh SH, Hui JH, Fisk NM, Choolani M, Chan JK. The potential of human fetal mesenchymal stem cells for off-the-shelf bone tissue engineering application. *Biomaterials*. 2012;9:33:2656-72.

Perinatal Research Centre



Prof. Paul Colditz
Director, Perinatal
Research Centre

Overview

The Perinatal Research Centre (PRC) is a large, multi-disciplinary research group under the direction of Professor Paul Colditz. The research team utilizes the talents of clinicians, scientists, allied health professionals and engineers to advance the health of mothers and babies.

Research within the group includes a number of clinical trials including the Neonatal Electrographic Seizure Trial (NEST) project which commenced in 2012. This multi-centre trial funded by the National Health and Medical Research Council (NHMRC) is investigating the optimal management of neonatal seizures, which remain one of the most common manifestations of neonatal encephalopathy.

PRC continued to publish extensively in high-impact journals throughout 2012. A key paper described innovative research on the short-term dose-response characteristics of two-aminobiotin immediately post insult after hypoxia-ischemia, one of the core research areas of PRC. Researchers within PRC are also contributing to eBrain – a program for children with cerebral palsy and other acquired brain injuries to develop and deliver innovative, cost effective rehabilitation therapies in their home via the national broadband network (NBN).

The use of techniques such as MRI continues to allow novel research projects to be developed and investigated. One such advance is the development of a preterm 'connectome'. In collaboration with Associate Professor Steven Rose of CSIRO, researchers are measuring the structural network of connections within the preterm infant's brain using diffusion MRI and tractography. Upon final completion of the project, researchers world-wide, will have a greater understanding of the structure of the preterm baby's brain. This, married with EEG research, will provide powerful new insights into brain structure and function during development and provide the critical basis for developing strategies to prevent adverse neurodevelopmental outcomes. The Perinatal Research Centre continues to collaborate with national and international research groups including an ongoing collaboration with Qatar University.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Paul Colditz	MBBS, MBIomedE, DPhil (Oxford), FRACP FRCPCH	Director, Perinatal Research Centre; Deputy Director (Clinical), UQCCR	clinical neonatology, neuroscience, biomedical signal processing
Prof. David McIntyre	MB BS, FRACP	Director, Endocrinology and Obstetric Medicine, Mater Health Services; Head, Mater Clinical School, UQ; PRC Senior Research Fellow	medical disorders of pregnancy, regulation of fetal growth and intensive therapy of type 1 diabetes
Prof. Boualem Boashash	BE/BSc, MSc, Dr Ing (PhD)	Prof. College of Engineering, Qatar University; Signal Processing Group Leader, PRC	time-frequency signal analysis, biomedical signal processing, spectral estimation, signal detection and classification
Prof. Eugene Lumbers	MBBS, MD, DSc	Emeritus Scientia Professor, UNSW; Conjoint Professor, University of Newcastle; Honorary PRC Senior Research Fellow	fetal origins of adult diseases, hypertension, development of control of the circulation, exercise and training, and renal development and function
Prof. Barbara Dodd	PhD, LACST	PRC Senior Honorary Research Fellow	speech and language pathology
Prof. Stephen Taylor	PhD	Prof. Pharmacology, SBMS, UQ; PRC Senior Honorary Research Fellow	the role of the complement system in inflammatory disease
Prof. Chris East	RN, RM, DAppIsc, BAppIsc, MMSc, Grad Cert Health stud, PhD	PRC Senior Honorary Research Fellow; Prof. Midwifery, Monash University and Southern Health	midwifery
Assoc. Prof. Stephen Rose	BSc, PhD	Principal Research Fellow	development and application of advanced MRI techniques to aid the detection and monitoring of disease processes
Assoc. Prof. Leonie Callaway	MBBS, FRACP, PhD	Staff Specialist, Internal and Obstetric Medicine; Head, Royal Brisbane Clinical School; PRC Senior Honorary Research Fellow	obesity in pregnancy, including the relationship between obesity and hypertensive disorders of pregnancy
Assoc. Prof. Vicki Flenady	MMed Sc (Clin Epid)	PRC Senior Honorary Research Fellow	perinatal researcher at the Centre for Clinical Studies

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof Nigel Barnett	MSc, DPhil (Oxon)	PRC Senior Honorary Research Fellow	the effects of hypoxia/ischaemia in visual development and disease
Dr Michael Colditz	MBBS	PRC Honorary Research Fellow	
Dr Michael Gunn	MBBS	PRC Honorary Research Fellow	
Dr David Holcombe	MBBS	PRC Honorary Research Fellow	
Dr Tim Donovan	MB, BS, MPH, FRACP (Paed) Neonatal Paediatrician, RBWH, Assoc. Prof. UQ	Neonatologist, RBWH; PRC Senior Honorary Research Fellow	improving outcomes for preterm infants particularly in the area of nutrition, growth/body composition and development, ongoing research in the use of telemedicine to provide outreach care of sick infants in regional hospitals, epidemiology of gastroschisis
Dr Aven Lee	BSc, PhD	NHMRC Research Officer	molecular biology and protein biology of the brain
Dr Barbara Lingwood	MSc, PhD	Research Fellow	cardiovascular function in the preterm infant
Dr Ghazem Azemi	PhD	Research Fellow	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Dr Sampsa Vanhatalo	MD, PhD	Visiting Professor, Marie Curie Research Fellowship EU	brain diagnostics and monitoring in early neonatal period
Dr Mark Davies	PhD	Neonatologist; PRC Senior Honorary Research Fellow	improving outcomes for preterm infants, particularly in the area of partial liquid ventilation (PLV) optimisation for use in pre-term infants
Dr Janet Hammill	AM, PhD, MTH, RN	Coordinator	collaboration for alcohol-related developmental disorders
Dr Leith Moxon-Lester	BSc, PhD	Research Fellow	one carbon metabolism and its impact on maternal, foetal and neonatal health, disruption of one carbon metabolism by hypoxia- ischemia (HI) (reduced oxygen and blood supply)
Dr Margo Pritchard	RN, EM, ANNC, BA PhD	Principal Trialist; Honorary Research Consultant, School of Nursing and Midwifery; Honorary Research Consultant, School of Medicine	child health surveillance and development of strategies to sustain outcome, improvements in children born at high-risk of developmental disability
Dr Simon Finnigan	PhD	Senior Research Fellow (NHMRC Career Development Awardee)	brain monitoring techniques to improve outcomes for critically ill patients (e.g. extremely premature babies, stroke patients)
Dr Susan Sullivan	BSc (Hons), PhD	NHMRC Research Fellow	the role of astrocytes in perinatal hypoxia/ischemia
Dr Tracey Bjorkman	BSc, MPhil, PhD	NHMRC Senior Research Officer	hypoxic-ischemic brain injury in preterm and term infants
Dr Marloes Dekker Nitert	MSc, PhD	Senior Research Fellow	metabolism and epigenetics in complications of pregnancy
Dr Yvonne Eiby	BSc (Hons), PhD	NHMRC Research Officer	the cardiovascular system of preterm infants
Dr Xiyong Fan	BSc (Hons), PhD	Research Fellow	hypoxic-ischemic brain injury in preterm and term infants
Dr Layne Wright	PhD	Research Assistant	cardiovascular system of preterm infants in order to reduce hypoxic/ischemic brain injury
Amir Omidvarnia	BSc, MSc	Research Assistant	medical signal processing, image processing, pattern recognition
Mohammed Khelif	BSc, MSc	Research Assistant	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Donna Hovey	RN, NNC, BN (Hons I)	Research Assistant	clinical trials

Research staff

Name	Qualifications	Position	Interests/specialties
Karen Taylor	RN, Endorsed Midwife, Neonatal Intensive Care	Research Nurse	clinical trials group supporting 'Enhanced parenting to improve developmental outcomes in preterm infants'
Leisa Brooks	B Nurs (Hons), Endorsed Midwife (Distinction)	Research Assistant	clinical trials group supporting the coordination of the 'Ambulatory Fetal Monitoring Predicts Clinical Outcome' study
Melody Rose	RN, RM, DipHlthScN, BHIthScNursing, GradCetLactMgtInffding, IBCLC	Research Nurse	clinical trials group coordinator of attachment studies
Stephanie Miller	BSc (Hons)	Research assistant/ PhD student	hypoxic-ischemic injury in the term infant

Supervised post-graduate students

Name	Current studies	Research topic
Wixey, J.	Doctorate	Aetiology of low systemic blood flow in the pre-term neonate
Yamada, M.	Doctorate	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxia/ischaemia-injured neonatal brain
Carty, M.	Doctorate	Characterisation of brain injury and the role of neuroinflammation in a rodent model of preterm hypoxia-ischemia.
Gibbons, K.	Doctorate	Development of customised birthweight models
Constantini, K.	Doctorate	The role of C5a in pathophysiology
De Jersey, S.	Doctorate	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy
Kim, M.	Doctorate	Cardiac maturation and local renin angiotensin systems in preterm birth in pigs
Cumin, M.	Doctorate	The Premie GRACE (Preterm Growth And body Composition Evaluation) study
Knight, B.	Doctorate	Effects of the DAFNE programme on dietary composition in patients with Type 1 diabetes
Awabdy, D.	Doctorate	AMPA-KA receptor expression after hypoxic-ischaemia in the neonatal piglet
Khlif, M.	Doctorate	Neonatal seizure characterisation: Detection, localisation, study of seizure site synchrony and seizure propagation
Layeghy, S.	Doctorate	Digital signal processing, digital image processing, biomedical signal processing, pattern recognition, time frequency signal analysis
Barrett, H.	Doctorate	Maternal lipids in pregnancy
Omidvarnia, A.	Doctorate	Theoretical development and necessary concepts of nonstationary multivariate connectivity measures for newborn EEG analysis
Odebaee, M.	Doctorate	EEG source localisation: Refining a non-invasive method for measuring brain activity
Reinebrant, H.	Doctorate	The central serotonergic system in the preterm neonate following hypoxic-ischemic brain injury
Miller, S.	Doctorate	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Dong, S.	Doctorate	Biomedical signal processing of ECG and EEG using time-frequency analysis in babies exposed to hypoxic/ischaemic episodes
Pannek, K.	Doctorate	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain
Ma, N.	Masters	Developmental changes in expression of KCC2 and NKCC1 in normal and hypoxic ischaemic neonatal piglet brain
Sam, S.	Doctorate	Investigation of the early cardiovascular system function of very premature infants and its relationship to neurodevelopmental outcome
Chuk, R.	Masters	Impact of preterm birth on neurodevelopment – MRI study in very preterm babies at early postnatal age

Supervised post-graduate students

Name	Current studies	Research topic
Caesar, R.	Doctorate	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants
Evans, T.	Doctorate	Improving mother and child attachment patterns following preterm birth: An RCT of prem triple-p
George, J.	Doctorate	Prediction of motor outcomes based on early brain structure
Herd, M.	Doctorate	Efficacy of prem triple p as an intervention to support families of very preterm infants
Schleiger, E.	Doctorate	Predicting outcomes of cerebral ischaemia from pre-discharge EEG and clinical assessment measures
Sheikh, N.	Doctorate	Role of quantitative EEG in the prognostication of cerebral ischaemia: Optimising parameters
Iyer, K.	Doctorate	Predicting clinical outcome in post-natal hypoxia: Modelling and understanding the brain's electrical activity

Awards and achievements

Award	Event	Name
2012 Distinguished Achievement Award for Research	2012 RBWH Healthcare Symposium	Colditz, P.
Best Clinical Science Poster	2012 RBWH Healthcare Symposium	Sheikh, N.
ADIPS Emerging Investigator Award	2012 Australasian Diabetes in Pregnancy Society Annual Scientific Meeting, Gold Coast, Australia.	Barrett, H.L.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Colditz, P.B., Sanders, M., Boyd, R., Pritchard, M., Gray, P. O'Callaghan, M., Slaughter, V., Whittingham, K.	Enhanced parenting capacity to improve developmental outcome in preterm infants	NHMRC	\$996,335	2012-2016
Callaway, L.K., McIntyre, H.D.	A randomised, controlled trial of probiotics to prevent gestational diabetes	NHMRC	\$828,717	2012-2015
Lingwood, B., Wright, I., Lumbers, E., Colditz, P.B.	Supporting heart function in preterm babies	NHMRC	\$670,920	2012-2014
Willmott, L., White, B.P., Gallois, C., Parker, M., Graves, N., Winch, S., (Industry Partner: Callaway, L.)	Futile treatment at the end-of-life: Legal, policy, sociological and economic perspectives	ARC Metro North	\$268,000 \$150,000	2012-2014
Brown, L., McIntyre, H.D.	Northern Territory Diabetes in Pregnancy project	NHMRC	\$1,497,324	2012-2015
Callaway, L., McIntyre, H.D., Dekker Nitert, M., Tobin, J., O'Rourke, P., Wilkinson, S., McSweeney, C.	Probiotics and gestational diabetes mellitus	NHMRC	\$828,718	2012-2014
Donovan, T., Moxon-Lester, L., Pow, D.	Examining creatine excretion as a biomarker of hypoxic-ischaemic brain injury in preterm and term neonates	RBWH Foundation	\$22,000	2012
Callaway, L.	Grant to write the RBWH Research Report	RBWH Private Practice Trust Fund	\$10,000	2012
Barrett, H., Callaway, L., De Jersey, S., Lingwood, B., Dekker Nitert, M., d'Emden, M.	Impact of metformin treatment for gestational diabetes on gestational lipid metabolism and infant, body composition: A prospective observational study	RBWH Foundation	\$40,000	2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Barrett, H.L., Dekker Nitert, M., Callaway, L.K.	Placental Lipases	Pfizer Australia Cardiovascular Lipid Research Grant	\$39,000	2012
Pritchard, M., Hovey, D., Cartwright, D., Scott, J.	A longitudinal study of autism, development and parenting in preterm infants (<29 weeks) from two to four years	RBWH Foundation	\$19,000	2012
Suhrbier, A., Callaway, L.	Serpins and preeclampsia	QIMR-Clinician Collaborative Research Award	\$34,200	2012
Callaway, L., Rice, G., Mitchell, M., Harris, L.	Investigating the link between early pregnancy and obstetric disease	RBWH Foundation	\$38,404	2012
Dekker-Nitert, M.	ADIPS-Novo Nordisk Grant. Gene expression and DNA methylation of diabetes-associated genes in the placenta and offspring neonatal buccal cells from pregnancies complicated by GDM	ADIPS-Novo Nordisk	\$6,600	2012
Sheikh, N., Wong, A., Read, S., Finnigan, S.	Role of quantitative EEG in diagnosis, prognostication and management of cerebral ischaemia	RBWH Foundation	\$30,000	2012
Sheikh, N., Finnigan, S., Wong, A., Read, S.	Quantitative electroencephalography for stroke prognoses	National Stroke Foundation Research Grant	\$20,000	2012
Callaway, L.	2012 Patricia Dukes Fellowship	RBWH Foundation	\$150,000	2012-2014
Bjorkman, S.	Seizures and injury in the newborn hypoxic-ischemic brain	Lions Medical Research Foundation	\$330,000	2011-2014
Whittaker, A., Rose, S., Peng, H.	MRI molecular imaging agents – from fundamental design to in-vivo applications	ARC	\$979,230	2011-2013
Callaway, L.	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies	RBWHF	\$150,000	2010-2011
Colditz, P.B., Boyd, R., Rose, S., Finnigan, S.	Ischaemia as a causal pathway to cerebral palsy in the preterm baby: Advances in prognostication, treatment and prevention	Cerebral Palsy Institute	\$50,000	2010-2011
Hunt, R., Colditz, P.B., Inder T., Badawi, N., Simmer, K., Liley, H., Osborn, D., Cheong, J., Wright I.	A study of the impact of treating electrographic seizures in term or near-term infants with neonatal encephalopathy	NHMRC	\$1,301,309	2011-2015
Colditz, P.B., Boashash, B.	Design of a computer-automated system for foetal movement classification in the case of high-risk pregnancies using advanced signal processing algorithms	Qatar National Research Fund/ University of Qatar	\$949,282	2010-2012
Colditz, P.B., Boashash, B.	EEG signal classification for newborn outcome prediction after perinatal brain injury	Qatar National Research Fund/ University of Qatar	\$1,013,86	2010-2012
Finnigan, S.	Protecting newborn brains via innovative monitoring technology	NHMRC	\$390,000	2010-2013
Mesbah, M., Colditz P.B., East, C.E., Smeathers, J., Boashash B.	Detection and quantification of general fetal movements from accelerometer measurements using nonstationary signal processing techniques	ARC	\$150,000	2010-2012
Pow, D., Barnett, N.L., Lingwood, B., Bjorkman, S., Buller, K.B., Colditz, P.B.	Astrocyte regulation of ammonia and glutamate in neonatal hypoxia/ischaemia	NHMRC	\$532,629	2010-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Mamun, A., O'Callaghan, M., Najman, J., Alati, R., Williams, G., Clavarino, A., McIntyre, D.H.	Early origins, progression and aetiology of obesity, metabolic syndrome and diabetes: 30 years follow-up study.	NHMRC	\$1,151,67	2010-2014
Borges, K., Taylor, S.M.	Complement activation in experimental epilepsy	NHMRC	\$303,750	2010-2012
Johnson, D., Gobe, G.C., West, M., Brown, L., Vesey, D.	Enhancing erythropoietin therapy in ischaemia-reperfusion injury of heart and kidney	NHMRC	\$348,750	2010-2012
Sullivan, S.	Astrocytes: A possible target to treat hypoxic brain damage	NHMRC	\$285,000	2009-2012
Taylor, S.M., Woodruff, T.M., Callaway, L.K., Finnell, R.H.,	Complement C5a receptors, placental inflammation and reproductive impairment	NHMRC	\$967,750	2009-2013
Bjorkman, S.T.	GABA excitotoxicity neuroprotection and the perinatal brain	NHMRC	\$526,500	2009-2012

Publications

Achong N, Callaway LK, d'Emden M, McIntyre H D, Lust K, Barrett HL. (Epub Oct 29 2012) Insulin requirements in late pregnancy in women with type 1 diabetes mellitus: A retrospective review. *Diabetes Research and Clinical Practice*.

Armfield NR, Donovan T, Bensink ME, Smith AC. The costs and potential savings of telemedicine for acute care neonatal consultation: Preliminary findings. *J Telemed Telecare*. 2012;18(8):429-33.

Assous S, Boashash B. Evaluation of the modified-S transform for time-frequency synchrony analysis and source localisation. *EURASIP J. Adv. Signal Process.*, 2012:49.

Abed M, Belouchrani A, Cheriet M, Boashash B. Time–frequency distributions based on compact support kernels: Properties and performance evaluation. *IEEE Trans. Signal Process.*, 2012;60(6):2814 –2827.

Barrett HL, Callaway LK, Nitert MD. Probiotics: a potential role in the prevention of gestational diabetes? *Acta Diabetol*. 2012 Dec;49 Suppl 1:1-13.

Barrett HL., Dekker Nitert M, Callaway L, Conwell LS (2012) Probiotics for the prevention of gestational diabetes: Cochrane Review. *Cochrane Database of Systematic Reviews* DOI: 10.1002/14651858.CD009951

Barrett HL, Devin R, Clarke S, Dekker Nitert M, Boots R, Fagermo N, Callaway LK, Lust K. A fifteen year retrospective review of obstetric patients requiring critical care. *Obstet Med* 2012;5:166-170.

Barrett HL, Gatford KL, Houda CM, De BMJ, McIntyre HD, Callaway LK, Nitert MD, Coat S, Owens JA, Hague WM, Rowan JA. Maternal and Neonatal Circulating Markers of Metabolic and Cardiovascular Risk in the Metformin in Gestational Diabetes (MiG) Trial: Responses to maternal metformin versus insulin treatment. *Diabetes Care*. 2012 Oct 9.

Barrett HL., Lust, K., Fagermo, N., Callaway, L. K., Minuzzo, L. (2012) Moyamoya disease in pregnancy: maintenance of maternal blood pressure. *Obstetric Medicine* 5:32–34.

Boashash B, Boubchir L, Azemi G. A methodology for time–frequency image processing applied to the classification of non-stationary multichannel signals using instantaneous frequency descriptors with application to newborn EEG signals. *EURASIP J. Adv. Signal Process*, 2012:117.

Buller KM, Wixey JA, Reinebrant HE. Disruption of the serotonergic system after neonatal hypoxia-ischemia in a rodent model. *Neurol Res Int* 2012;650382.

Byrne NM, Groves AM, McIntyre D, Callaway L, Colditz PBaportBG. Gestational weight gain: arguments for a transgenerational weight control process. *Am J Clin Nutr*. 2012. p.pp. 529-33.

Callaway LK, Mamun A, McIntyre HD, Williams GM, Najman JM, Nitert MD, Lawlor DA. Does a history of hypertensive disorders of pregnancy help predict future essential hypertension? Findings from a prospective pregnancy cohort study. *J Hum Hypertens*. 2012 Dec 6.

Cheong JL, Coleman L, Hunt RW, Lee KJ, Doyle LW, Inder TE, Jacobs SE. Prognostic utility of magnetic resonance imaging in neonatal hypoxic-ischemic encephalopathy: substudy of a randomised trial. *Archives of pediatrics and adolescent medicine*. 2012 Jul 1;166(7):634-40.

Cheong JL, Coleman L, Hunt RW, Lee KJ, Doyle LW, Inder TE, Jacobs SE, Colditz PB (as part of the Infant Cooling Evaluation Committee). Prognostic utility of magnetic resonance imaging in neonatal hypoxic-ischemic encephalopathy: substudy of a randomised trial. *Archives of pediatrics and adolescent medicine*. 2012 Jul 1;166(7):634-40.

Publications

- Choi WW, McBride CA, Bourke C, Borzi P, Choo K, Walker R, Nguyen T, Davies M, Donovan T, Cartwright D, Kimble RM. Long-term review of sutureless ward reduction in neonates with gastroschisis in the neonatal unit. *J Pediatr Surg*. 2012 Aug;47(8):1516-20.
- Crowther CA, Dodd JM, Hiller JE, Haslam RR, Robinson JS on behalf of the Birth After Caesarean Study Group (Pritchard MA). Planned Vaginal Birth or Elective Repeat Caesarean: Patient Preference Restricted Cohort with Nested Randomised Trial. *PLoS Med* 2012;9(3): e1001192. doi:10.1371/journal.pmed.1001192.
- Donovan T, Armfield N. A Telefuture. *Medical Journal of Australia Insight*, 2012
- Donovan TJ, Buchanan K. Medications for increasing milk supply in mothers expressing breastmilk for their preterm hospitalised infants. *Cochrane Database of Systematic Reviews*. 2012;3:CD005544.
- Douglas H, Hammill J, Russell EA, Hall W. Judicial view of Foetal Alcohol Spectrum Disorder in Queensland's criminal justice system. *Journal of Judicial Administration*. 2012;21:178-88.
- Eiby YA, Lumbers ER, Headrick JP, Lingwood BE. Left ventricular output and aortic blood flow in response to changes in preload and afterload in the preterm piglet heart. *Am J Physiol Regul Integr Comp Physiol*. 2012 Oct 1;303(7):R769-77.
- Hollingsworth K, Callaway L, Duhig M, Matheson S, Scott J. The association between maltreatment in childhood and pre-pregnancy obesity in women attending an antenatal clinic in Australia. *PLoS One*, 2012;7 (12):e51868.
- Hryciw DH, Kruger WA, Briffa JF, Slattey C, Bolithon A, Lee A, Poronnik P. Sgk-1 is a Positive Regulator of Constitutive Albumin Uptake in Renal Proximal Tubule Cells. *Cell Physiol Biochem*. 2012 Oct 15;30(5):1215-26.
- Lee A, Anderson AR, Barnett NL, Stevens MG, Pow DV. Alternate splicing and expression of the glutamate transporter EAAT5 in the rat retina. *Gene*. 2012;506(2):283-8.
- Lee A, Anderson AR, Beasley SJ, Barnett NL, Poronnik P, Pow DV. A new splice variant of the glutamate-aspartate transporter: Cloning and immunolocalisation of GLAST1c in rat, pig and human brains. *Journal of chemical neuroanatomy*. 2012 Jan;43(1):52-63.
- Lee A, Anderson AR, Rayfield AJ, Stevens MG, Poronnik P, Meabon JS, Cook DG, Pow DV. Localisation of novel forms of glutamate transporters and the cystine-glutamate antiporter in the choroid plexus: Implications for CSF glutamate homeostasis. *Journal of chemical neuroanatomy*. 2012 Jan;43(1):64-75.
- Lingwood BE, Storm van Leeuwen AM, Carberry AE, Fitzgerald EC, Callaway LK, Colditz PB, Ward LC. Prediction of fat-free mass and percentage of body fat in neonates using bioelectrical impedance analysis and anthropometric measures: validation against the PEA POD. *The British journal of nutrition*. 2012 May;107(10):1545-52.
- Mamun AA, Kinarivala MK, O'Callaghan M, Williams G, Najman J, Callaway L. Does hypertensive disorder of pregnancy predict offspring blood pressure at 21 years? Evidence from a birth cohort study. *J Hum Hypertens*. 2012 May;26(5):288-94.
- Metzger BE, IADPSG Consensus Panel (McIntyre HD, Consensus Panel Member and Writing Group Member), HAPO Study Steering Committee. The Diagnosis of Gestational Diabetes Mellitus: New Paradigms or Status Quo? *J Matern Fetal Neonatal Med*. 2012 Aug 10. [Epub ahead of print] PubMed PMID: 22876884.
- McIntyre HD, Gibbons KS, Flenady VJ, Callaway LK. Overweight and obesity in Australian mothers: epidemic or endemic? *The Medical journal of Australia*. 2012 Feb 20;196(3):184-8.
- McIntyre HD, Harvey D. DAFNE "Dose Adjustment for Normal Eating" Australian Update - 2012. *Diabetes Management Journal*. Dec 2012; 41: 32-33.
- McIntyre HD, Peacock A, Miller Y, Koh D, Marshall A. Pilot study of an individualised early post partum intervention to increase physical activity in women with previous gestational diabetes. *International Journal of Endocrinology* 2012; 2012:892019 Epub 2012 Apr 4.
- McLeod DS, Warner JV, Henman M, Cowley D, Gibbons K, McIntyre HD; for the HAPO Study Cooperative Research Group. Associations of serum vitamin D concentrations with obstetric glucose metabolism in a subset of the Hyperglycemia and Adverse Pregnancy Outcome (HAPO) study cohort. *Diabet Med*. 2012; Aug;29(8) e199 – e204.
- Meabon JS, Lee A, Meeker KD, Bekris LM, Fujimura RK, Yu CE, Watson GS, Pow DV, Sweet IR, Cook DG. Differential Expression of the Glutamate Transporter GLT-1 in Pancreas. *J Histochem Cytochem*. 2012 Feb;60(2):139-51.
- Mesbah M, O' Toole J, Colditz P, Boashash B. Instantaneous Frequency Based Newborn EEG Seizures Characterisation. *EURASIP Journal on Advances in Signal Processing*, 2012.
- Odabae M, Freeman WJ, Colditz PB, Ramon C, Vanhatalo S. Spatial patterning of the neonatal EEG suggests a need for a high number of electrodes. *Neuroimage*. 2012 Dec 13;68C:229-35.
- Patrick M, Catalano H, David McIntyre, J. Kennedy Cruickshank, David R. McCance, Alan R. Dyer, Boyd E. Metzger, Lynn P. Lowe, Elisabeth R Trimble, Donald R. Coustan, David R. Hadden, Bengt Persson, Moshe Hod, Jeremy J N Oats for the HAPO Study Cooperative Research Group. The Hyperglycemia and Adverse Pregnancy Outcome (HAPO) Study: Associations of GDM and Obesity with Pregnancy Outcomes. *Diabetes Care* 2012; apr 35 (4) 780 – 6.
- Pannek K, Guzzetta A, Colditz PB, Rose SE. Diffusion MRI of the neonate brain: acquisition, processing and analysis techniques. *Pediatr Radiol*. 2012 Aug 18.
- Pennell C, Whittingham K, Boyd R, Sanders M, Colditz P. Prematurity and parental self-efficacy: the Preterm Parenting and Self-Efficacy Checklist. *Infant behavior and development*. 2012 Dec;35(4):678-88.

Publications

Pritchard M, Colditz PB, Cartwright D, Gray PH, Tudehope D, Beller E. Six-week postnatal depression predicts parenting stress in mothers of preterm children. *Journal of Reproductive and Infant Psychology*. 2012; 30:3 303-11.

Pritchard MA, Kenner C. Review of Clinical Trials. *Newborn and Infant Nursing Reviews*, 2012, V 12, (3) 120-124.

Reinebrant HE, Wixey JA, Buller KM. Disruption of raphe serotonergic neural projections to the cortex: a potential pathway contributing to remote loss of brainstem neurons following neonatal hypoxic-ischemic brain injury. *Eur J Neurosci*. 2012 Dec;36(11):3483-91.

Seoane F, Ward LC, Lindecrantz K, Lingwood BE. Automated criterion-based analysis for Cole parameters assessment from cerebral neonatal electrical bioimpedance spectroscopy measurements. *Physiol Meas*. 2012 Aug;33(8):1363-77.

Shenoy VV, Cook SJ, Parry AF, McIntyre HD. Audit of insulin detemir in pregnancy: a retrospective case series. *Diabet Med*. 2012 Jul;29(7):958-9.

Sullivan SM, Sullivan RK, Miller SM, Ireland Z, Bjorkman ST, Pow DV, Colditz PB. Phosphorylation of GFAP is Associated with Injury in the Neonatal Pig Hypoxic-Ischemic Brain. *Neurochem Res*. 2012 Apr 19.

Wang Y, Pringle KG, Sykes SD, Marques FZ, Morris BJ, Zakar T, Lumbers ER. Fetal sex affects expression of renin-angiotensin system components in term human decidua. *Endocrinology*. 2012 Jan;153(1):462-8.

Wixey JA, Reinebrant HE, Buller KM. Post-insult Ibuprofen Treatment Attenuates Damage to the Serotonergic System After Hypoxia-Ischemia in the Immature Rat Brain. *J Neuropathol Exp Neurol*. 2012 Dec;71(12):1137-48.

Wixey JA, Reinebrant HE, Buller KM. Evidence that the serotonin transporter does not shift into the cytosol of remaining neurons after neonatal brain injury. *Neurosci Res*. 2012 Jul;73(3):252-6.

Shenoy V, Nisbett J, Petersen S, McIntyre HD. Neonatal hypothyroidism despite maternal T3 toxicosis: a management problem. *Obstetric Medicine Epub* 9 March 2012, doi:10.1258/om.2011.110074.

Wilkinson SA, McIntyre HD. Evaluation of the "healthy start for pregnancy" early antenatal health promotion workshop: a randomised controlled trial. *BMC Pregnancy Childbirth*. 2012 Nov 19;12(1):131.

Queensland Centre for Gynaecological Cancer



Assoc. Prof. James Nicklin
Clinical Director,
Gynaecological Oncology

Overview

The Queensland Centre for Gynaecological Cancer (QCGC) is a statewide service for the management of women with gynaecological cancer. QCGC Research is the research branch of QCGC. The Director of QCGC Research is Professor Andreas Obermair who leads and develops the unit to produce meaningful research outcomes.

QCGC Research's mission is to research and develop the best standard of care for women experiencing gynaecological cancer. This may include finding causes for and preventing gynaecological cancer; and finding better treatment options to cure women affected by gynaecological cancer.

QCGC Research's focus is on conducting surgical clinical trials in the field of gynaecological cancer but we also perform groundbreaking work outside the conventional clinical trials framework. Additionally we teach and train new researchers (MD and PhD programs) who will then take over as the research elite of tomorrow.

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.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. James Nicklin	MBBS, FRANZCOG, CGO	Clinical Director, Gynaecological Oncology	gynaecological oncology
Prof. Andreas Obermair	MD, FRANZGOG, CGO	Director, Research	gynaecological oncology
Dr Russell Land	MBBS, FRANZCOG, Grad Dip (Palliative Care), CGO	Visiting Medical Officer	gynaecological oncology
Dr Andrea Garrett	MBBS, MSc, FRANZCOG, Dip Pall Care	Visiting Medical Officer; Assistant Director, Gestational Trophoblastic Centre	gynaecological oncology, gestational trophoblastic disease
Dr Andreas Hackethal	MD, PhD	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Dr Donal Brennan	MB, BCh, BAO (Hon), BMedSc (Hon), PhD (Cancer Biology)	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Dr Vivek Arora	FRANZCOG, MRCOG, MD (Obst and Gynae), Dip NB (Obst and Gynae), MNAMS, MBBS	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Judith Eddy	RN, RM	Gynaecological Oncology Case Manager	oncology nurse specialist
Shona Morrison	BNurs, RN	Gynaecological Oncology Clinical Nurse	gynaecological oncology, gestational trophoblastic disease
Karen Sanday	BSc, HIM	Gynaecological Oncology Data Manager	gynaecological oncology
Trudi Cattley	BAppSc, Grad Cert (Clinical Trial Management)	Clinical Research Manager	clinical trials
Fiona Menzies	BSc, Dip Pharmacy Technician	Clinical Trial Manager	clinical trials
Vanessa Behan	BNurs	Clinical Trial Manager	clinical trials
Dana Middleton	BNurs, GradCert (Clinical Trial Management)	Clinical Trial Manager	clinical trials
Kerry Millgate	BNurs, Grad Dip (Respiratory Sc)	Clinical Trial Coordinator	clinical trials
Anne Hughes	BSc	Clinical Trial Coordinator	clinical trials
Noel Lipscombe	BNurs, Grad Dip (Nursing Management)	Clinical Trial Coordinator	clinical trials
Georgina Gower	BSc	Clinical Trial Coordinator	clinical trials

Supervised post-graduate students

Name	Current studies	Research topic
Tan, Y.	PhD	Australia Cancer Genetics: Motivators and barriers of referral
Noon, L.	PhD	Factors influencing uptake of genetic services

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Obermair, A., Janda, M., Graves, N., Bauer, J.	Post-operative enteral nutrition among patients with ovarian cancer	Cancer Australia	\$476,200	2010-2012
Obermair, A., Janda, M., Forder, P.	Laparoscopic Approach to Carcinoma of the Endometrium (LACE)	Cancer Australia	\$585,250	2010-2012
Obermair, A.	Clinical trial data management	Queensland Cancer Council	\$193,800	2012
Obermair, A., Janda, M., Kondalsamy-Chennakesavan, S.	Effect of prophylactic, risk-reducing gynaecological surgery on survival among patients with a history of breast cancer	RBWH Foundation	\$15,000	2012
Obermair, A., Quinn, M., Francis, G., Armes, J., Janda, M.	A phase II, randomised, clinical trial of Mirena ± metformin ± eight loss intervention in patients with early stage cancer of the endometrium	Lord Mayor's Community Trust	\$20,000	2012
Obermair, A., Janda, M.	LEGS follow-up: Lymphoedema evaluation following gynaecological cancer surgery	QUT	\$99,225	2012

Publications

Baker J, Obermair A, GebSKI V, Janda M. Efficacy of oral or intrauterine device-delivered progestin in patients with complex endometrial hyperplasia with atypia or early endometrial adenocarcinoma: a meta-analysis and systematic review of the literature. *Gynecol Oncol*. 2012 Apr;125(1):263-70.

Kondalsamy-Chennakesavan Srinivas; Janda M, GebSKI V et al. Risk factors to predict the incidence of surgical adverse events following open or laparoscopic surgery for apparent early stage endometrial cancer: Results from a randomised, controlled trial. *European Journal of Cancer*. 2012;48(14):2155-2162.

Kondalsamy-Chennakesavan S, Yu C, Kattan MW, Leung Y, Sykes P, Nascimento M, Nicklin J, Perrin L, Crandon A, Chetty N, Land R, Garrett A, Obermair A. Nomograms to predict isolated loco-regional or distant recurrence among women with uterine cancer. *Gynecol Oncol*. 2012;Jun;125(3):520-5.

Kondalsamy-Chennakesavan S, Janda M, GebSKI V et al. Risk factors to predict the incidence of surgical adverse events following open or laparoscopic surgery for apparent early stage endometrial cancer: Results from a randomised, controlled trial. *European Journal of Cancer*. 2012;48(14):2155-2162.

Kusters I, Williams M, Obermair A et al. Depression predicts lower use of services in gynaecological cancer survivors. *Asia-Pacific Journal of Clinical Oncology*. 2012;8(SI Supplement: 3):235.

Obermair A, Janda M, Baker J, Kondalsamy-Chennakesavan S, Brand A, Hogg R, Jobling TW, Land R, Manolitsas T, Nascimento M, Neesham D, Nicklin JL, Oehler MK, Otton G, Perrin L, Salfinger S, Hammond I, Leung Y, Sykes P, Ngan H, Garrett A, Laney M, Ng TY, Tam K, Chan K, Wrede DH, Pather S, Simcock B, Farrell R, Robertson G, Walker G, McCartney A, GebSKI V. Improved surgical safety after laparoscopic compared to open surgery for apparent early stage endometrial cancer: Results from a randomised controlled trial. *Eur J Cancer*. 2012 May;48(8):1147-53.

Rowlands IJ, Lee C, Janda M, Nagle CM, Obermair A, Webb PM, Australian National Endometrial Cancer Study Group. Predicting positive and negative impacts of cancer among long-term endometrial cancer survivors. *Psychooncology*. 2012 Dec 12. [Epub ahead of print]. Impact Factor = 3.339.

Tan J, Chetty N, Kondalsamy-Chennakesavan S, Crandon A, Garrett A, Land R, Nascimento M, Nicklin J, Perrin L, Obermair A. Validation of the FIGO 2009 staging system for carcinoma of the vulva. *Int J Gynecol Cancer*. 2012;Mar;22(3):498-502.

Tan YY, McGaughan J, Ferguson K, Walsh MD, Buchanan DD, Young JP, Webb PM, Obermair A, Spurdle AB on behalf of the ANECS Group. Improving identification of lynch syndrome patients: A comparison of research data with clinical records. *Int J Cancer*. 2012 Dec 6. [Epub ahead of print].

Publications

Tang A, Kondalsamy-Chennakesavan S, Ngan H, Zusterzeel P, Quinn M, Carter J, Leung Y, Obermair A. Prognostic value of elevated preoperative serum CA125 in ovarian tumors of low malignant potential: A multinational collaborative study (ANZGOG0801). *Gynecol Oncol.* 2012;Jul;126(1):36-40.

Varughese E, Kondalsamy-Chennakesavan S, Obermair A. The value of serum CA125 for the development of virtual follow-up strategies for patients with epithelial ovarian cancer: a retrospective study. *J Ovarian Res.* 2012;Mar 22;5:11.

Centre for the Advancement of Clinical Research



Prof. Lawrie Powell AC
Director, Research

Overview

The Centre for the Advancement of Clinical Research continues to expand, reflecting the increase in research activity on campus. It promotes innovative clinical research within the district, assists current and future researchers participating in research programs and provides links between researchers and funding opportunities, including the RBWH Foundation, UQCCR, QIMR, QUT and the Office of Health and Medical Research. The Centre is complementary to, and liaises closely with the RBWH Foundation whose key role is to raise funds for research and manage any grants placed through the Foundation.

The Centre assists researchers in the preparation of applications for funding and ethical approval of research. Applications for research funding are facilitated by administrative staff familiar with the relevant legal, ethical, regulatory, scientific and financial requirements for research activity within the complex. All applications are then reviewed by the Research Advisory Committee (see below).

RBWH currently separates the functions of Research Governance and Ethics, which is undertaken by the RBWH Human Research Ethics Committee (HREC). Research governance is the framework by which the institution oversees and administers research to ensure that it complies with relevant legislation and meets appropriate standards of quality, safety, privacy, risk and financial management. These activities are increasing substantially as the research activities on campus increase in number and complexity.

In 2012, the Centre continued to assume the role of coordinating the review process of low and negligible risk research, processing more than 100 applications. This activity has been facilitated by the appointment of Anitha Dinesh who has appropriate background in business and finance.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Lawrie Powell AC	MD, PhD, DUniv (Griff), FRACP, FRCP (Lond), FRCPT	Director, Research	liver disease, haemochromatosis, research and research governance
Jennifer Lonton	BN, BBus, GCHM	Research Support Officer	research governance
John Hewett	GDBA, GCM	Business Manager, Research and Special Projects	financial management
Anitha Dinesh	MBA	Assistant Research Support Officer/ Assistant Business Manager Research	financial management
Estelle Ellis		Executive Assistant	

Research Advisory Committee

Following the recommendations of the Ryan Review in 2004, a Research Advisory Committee was established to advise the hospital on matters of research and research funding and also to advise the RBWH Foundation on the allocation of grants. The composition of the Research Advisory Committee for 2012 was as follows:

- » **Emeritus Professor Mervyn Eadie AO** MD, PhD (Chair), Professor Emeritus, The University of Queensland and Chair, Queensland Health Central Human Research Ethics Committee
- » **Professor Lawrie Powell AC**, MD, PhD, DUniv (Griff), FRACP, FRCP (London), FRCPT. Director, Research, RBWH
- » **Professor Ron Dickinson** BSc Hons, PhD. Professorial Research Fellow and Director, Centre for Studies in Drug Disposition, The University of Queensland
- » **Adjunct Associate Professor Lesley Fleming OAM** Executive Director, Nursing and Midwifery Services, RBWH
- » **Professor Murray Mitchell** DPhil, DSc, FRSNZ. Director, The University of Queensland Centre for Clinical Research
- » **Professor Denis Moss** BSc, PhD, Senior Principal Research Fellow, Queensland Institute of Medical Research
- » **Dr Jacobus Ungerer** MBChB, MMed (Chem Path), MBL, FRCPA. Acting Director, Chemical Pathology, Pathology Queensland
- » **Dr Ian Wilkey** MBBS, BSc, LLB, FRCPA, FAFPHM. Chair, QIMR Ethics Committee
- » **Professor Glenn Gardner** RN, PhD, FRCNA. Professor of Clinical Nursing and Director, RBWH/QUT Centre for Clinical Nursing
- » **Dr Peter Roeser** MD, FRACP, FRCPA. Retired Physician, The University of Queensland Department of Medicine
- » **Professor Robert Tindle** PhD. Professor Emeritus, The University of Queensland and Former Director, Sir Albert Sakzewski Virus Research Centre, RCH and Clinical Medical Virology Centre, The University of Queensland
- » **Associate Professor Roger Allison** MBBS, DObst, MRCP, FRCR, FRACR, FACHPM. Executive Director, Cancer Care Services, RBWH
- » **Associate Professor Gerard Byrne** BSc (Med), MBBS (Hons), PhD, FRANZCP. Head, Academic Discipline of Psychiatry, UQ and Director, Older Persons' Mental Health Service, Metro North Mental Health Services
- » **Judith Catherwood** BComm, BSc (Hons) Dietetics, PG Cert Strategic Workforce Planning. Executive Director, Allied Health Professions, RBWH.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
McLaren, C. et al (six centres, including QIMR)	Genetic modifiers of iron status in haemochromatosis HFE C282Y homozygotes	National Institutes of Health	\$US265, 190	2011-2012
Anderson, G.J., Walter, P., Powell, L.W., Ramm, G.A., Subramaniam V.N.	Assessment of oxidant stress and mitochondrial dysfunction in young adults with iron loading diseases	NHMRC Project Grant 613689	\$591,525	2010-2012
Delatycki, M. et al (three centres)	Venesection or expectant management for moderate iron overload in HFE related hereditary haemochromatosis	NHMRC	\$820,000	2012-2014

Publications

O'Brien J, Powell LW. Non-alcoholic fatty liver disease: Is iron relevant? Hepatology International. 2012;6:332-341.

Wood MJ, Powell LW, Dixon JL, Ramm GA. Clinical cofactors and hepatic fibrosis in hereditary hemochromatosis: the role of diabetes mellitus. Hepatology. 2012;56(3):904-911.



Support research at Queensland's largest hospital by making a donation to RBWH Foundation.

DONATION FORM

To make a donation to RBWH Foundation, simply fill in the form below and either mail it to RBWH Foundation, PO Box 94, Royal Brisbane and Women's Hospital, QLD, 4029, scan it and email to info@rbwhfoundation.com.au or fax it to 07 3646 1768. Alternatively, you can make donations on our secure website www.rbwhfoundation.com.au or by calling 07 3646 7588.

Donation Details:

Remember, all donations of \$2.00 and over are tax deductible.

Please accept my donation of:

☐ \$100 ☐ \$250 ☐ \$1,000 ☐ Other

I would like to make my donation:

- ☐ A single one-off gift
- ☐ A regular contribution to be automatically deducted from my credit card each month

Payment Details:

☐ I enclose my cheque/money order (NB cheques to be made out to RBWH Foundation)

OR please charge my: ☐ Visa ☐ Mastercard ☐ Amex

Card no:

Expiry Date: / CCV:

Cardholder's Name:

Cardholder's Signature:

Title: First Name: Surname:

Address:

State: Postcode:

Phone: () Mobile:

Email:

Privacy: Information we collect on this form is used to process donations, provide receipts and to send information on RBWH Foundation and the research it supports. For more information on our privacy statement visit www.rbwhfoundation.com.au
If you do not wish to receive further information from RBWH Foundation (apart from your receipt) please tick ☐

The Foundation of Royal Brisbane and Women's Hospital



Royal Brisbane and Women's Hospital
Metro North Hospital and Health Service

+61 7 3646 8111
www.health.qld.gov.au/rbwh