



RBWH

Research Report 2011

Royal Brisbane and Women's Hospital
Metro North Hospital and Health Service

Queensland Health



Queensland
Government



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Dr David Alcorn
Executive Director,
Royal Brisbane and
Women's Hospital

Executive Director's report

Following another exemplary year at the Royal Brisbane and Women's Hospital (RBWH), I take great pride in recalling the many achievements of our tireless medical, nursing and allied health clinicians and esteemed researchers from our campus university and research partners.

Research and the resulting advancements in healthcare have always been an expectation of our society and something which we tend to take for granted. For example, we tend to forget that the spectacular eradication or effective treatment of diseases such as smallpox, poliomyelitis and tuberculosis and more recently AIDS have resulted from medical research.

The tenacity of our dedicated researchers and clinicians is evident in the significant increase in research activity across the Herston campus throughout 2011. I am proud to note the record \$2 million allocated for peer-reviewed research by the Private Practice Trust Fund (PPTF) and RBWH Foundation for RBWH staff.

Of particular note are the efforts of the team dedicated to establishing a historic partnership between Queensland Health and Queensland University of Technology (QUT) at Herston – the Australian Centre for Health Services Innovation (AusHSI) – with the aim of building research capacity and delivering solutions to important health services challenges.

Special mention must go to Professor Frank Gannon, Director, QIMR, for his leadership and drive to establish the Herston Imaging and Research Facility (HIRF) in collaboration with RBWH, UQ and QUT. Once established, the facility will further enhance our campus partnerships and the capacity and scope for world-leading research on the Herston campus.

This hard work continues to shape RBWH as an Academic Health Sciences Centre and contributes to our vision of research excellence and innovation, education and training of tomorrow's health workforce, and importantly, as always, helping to make a lasting difference in the quality and length of life of Queenslanders.

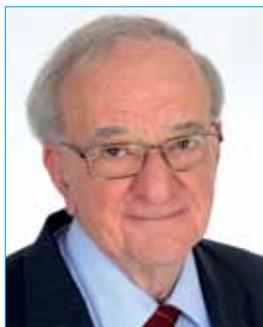
I would like to personally thank and acknowledge the work of RBWH Director of Research, Professor Lawrie Powell AC, and his team in continuing to lead RBWH in research excellence.

Many other individuals and corporate entities have played a role in once more focusing this wonderful campus of academic, intellectual and scientific endeavour firmly towards enquiry, innovation and healthy competition for research resources.

These tireless contributors include, but are not limited to: Professor Emeritus Mervyn Eadie AO, Chair of the Research Advisory Committee and his team; Dr Conor Brophy, Chair of the Human Research Ethics Committee (HREC) and her team; the Clinician Scientists Association; the Research Excellence and Academic Leadership Group; Queensland Pathology (through the Internal Medicine Laboratories at QIMR); our many generous corporate supporters, coordinated through the RBWH Foundation led by Chair, The Honourable Warwick Parer AM and CEO Peter Treseder AM and his energetic team; and the generosity of the Private Practice Trust Fund.

I look forward to another brilliant year ahead as we strive for excellence and innovation in health research at RBWH with the ultimate outcome of course being a higher quality of health care at a sustainable cost.

Dr David Alcorn
Executive Director
Royal Brisbane and Women's Hospital



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

Research Director's report

It is very pleasing to report that the significant increase in research activity and productivity reported in last year's Research Report has continued. This is due in large part to further increased research productivity and grant successes by RBWH staff, active collaborations with The University of Queensland (UQ) and UQCCR research staff, Queensland University of Technology (QUT) and expanding involvement of RBWH clinical researchers with QIMR researchers.

Research funding from peer-reviewed sources such as NHMRC are shown in the graphs on the following page, along with research publications and higher degree students.

A particular highlight of this year was the very successful annual RBWH Healthcare Symposium which focussed on personalised healthcare - an emerging development in medical research that will affect all of human kind. This year's Symposium hosted a large faculty of national and international speakers including Professor Dame Valerie Beral AC from Oxford and Professor Paul Adams from London Ontario, Canada. A special focus was personalised healthcare for cancer patients.

Other noteworthy developments include the expansion of health services research in collaboration with QUT and the establishment of the Herston Imaging Research Facility (HIRF) as detailed in the report.

The increasing collaboration between RBWH and the other institutions on campus and QUT has been mentioned elsewhere, especially our joint efforts with QIMR, UQCCR and QUT. Perhaps the best examples have been the new imaging research facility (see report by Professor Frank Gannon), but also the formation of the joint bioinformatics unit between RBWH and QIMR in which RBWH provides a full-time biostatistician who works with the QIMR Biostatistical Unit, headed by Professor Peter O'Rourke. This is a highly successful development which enables RBWH research staff to access expert professional biostatistical advice promptly.

Another pleasing development on campus has been the increasing clinician-basic scientist partnership which is widely recognised as the most productive force in unravelling the molecular basis of human disease - a fact attested to by numerous Nobel Prize awards.

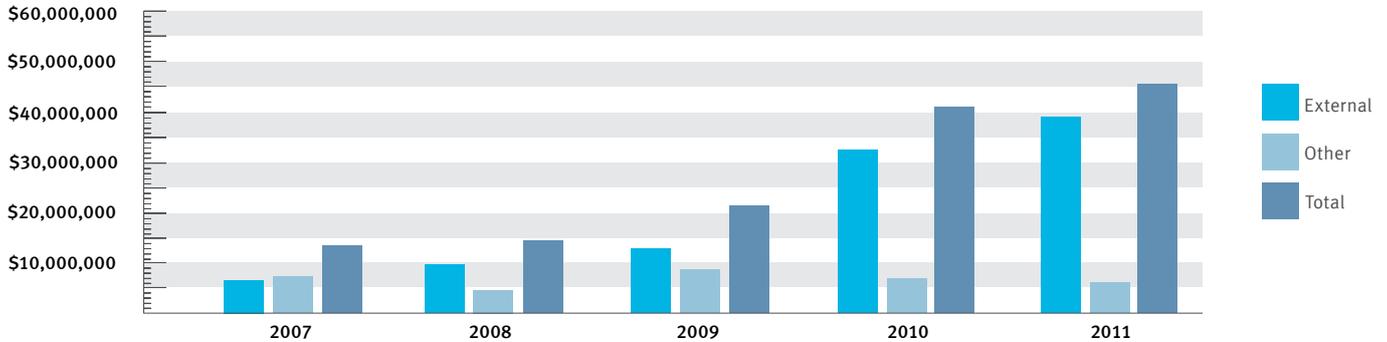
The importance of this and a pivotal role of research and teaching in a major hospital is epitomised in multiple statements, one of the most apposite being that from the National Institutes of Health:

*"Research enhances the vitality of teaching
Teaching lifts the standard of service
Service opens new avenues of investigation."*

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

Research performance

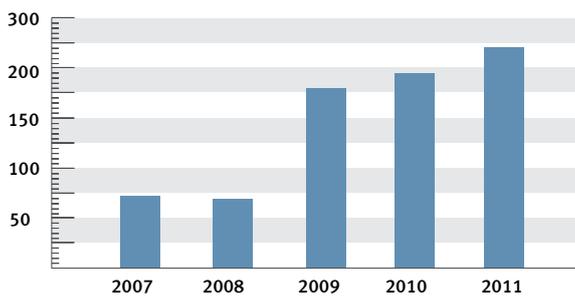
Research grants



Year	External	Other	Total
2007	\$6,386,227	\$7,253,778	\$13,640,005
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

External research funding includes funds received from peer reviewed funding schemes (e.g. National Health and Medical Research Council, National Heart Foundation), Australian Government grants (e.g. Department of Health and Ageing). Funds received from commercially-sponsored clinical trials contract research are not included. Other research funding includes Queensland Health, RBWH Foundation, RBWH Private Practice Trust Fund and university funding. Grants include those where an RBWH researcher is a Chief or co-Investigator.

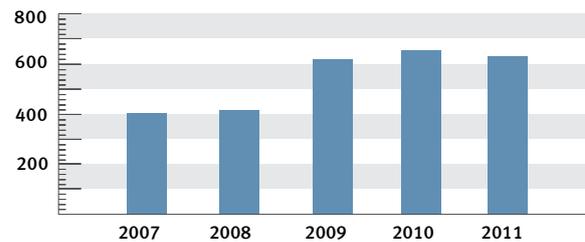
Supervised postgraduate students



Year	No. of students
2007	73
2008	70
2009	180
2010	194
2011	221

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

Publications



Year	No. of publications
2007	405
2008	413
2009	619
2010	648
2011	632

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.



Peter Treseder AM
Chief Executive Officer
RBWH Foundation

RBWH Foundation

Lust for Life

On every day, the miracle of another dawn; adventure that startles wonder, imagination and excitement; opportunities for everyone to draw together in the joy of life and understanding.

All of us have the essence and the spirit to achieve our wildest dreams. Dream them first, with truth, into positive visions for the future.

Stand out from the rest to challenge the risk of failure, for in all mistakes there lurk important learnings.

Know also that your ruler is in your thoughts. Free them into the light and soar forward into the decades of all that awaits for you to win.

These simple words were written by a friend and I over a decade ago and to me represent all that is good and true about medical research. The possibility of great discovery; the possibility of a noble triumph!

Most of us ask very little of life. We hope and pray that our loved ones will be able to live their lives with dignity and respect and will be able to follow their life's dreams.

However, we have hospitals filled with people whose dreams have been taken from them. Who instead of being able to live their lives the way they want, find themselves trapped battling illness and asking, "Why me?"

I have often wondered about the fairness of all of this and have come to the conclusion that the true purpose of life is to care for each other, to fight the good fight for others and to support those who are seeking the noble triumph. Part of this is to find the solutions to medical mysteries that will help others live full and productive lives.

At each Research Grant Awards ceremony I marvel at the brain power and the energy of those collecting their awards. The power is overwhelming, the possibilities endless and the family code is supreme, young and old supporting each other. Professors Eadie and Powell, standing proudly beside the young hopefuls watching as they take their first tentative steps towards a hope for the future and a prayer for the past. Will the next medical miracle come from this group? Will they stand on the shoulders of giants to achieve their own gift for humankind?

We at the Foundation are proud to be a member of this family and to have, during the year, contributed a record amount of passion and dollars in support of this noble possibility.

My dream is that together we can achieve this, that together we will make a difference and that together anything is possible!

There is no greater purpose/privilege in life than caring for and inspiring others.

Let's soar forward into the decades of all that awaits for us to win!

Peter Treseder AM
Chief Executive Officer
RBWH Foundation



Recipients of 2011 RBWH Foundation Grant Awards.



Prof. Andrew Wilson
Executive Dean, Faculty of Health, Queensland University of Technology

Queensland University of Technology

In 2011 the partnership between Queensland University of Technology (QUT) and the Royal Brisbane and Women's Hospital (RBWH) continued to foster developments in health-related research, training and education.

The strong relationship between QUT and RBWH provides an ideal combination of academic and clinical resources to promote innovative and translational research that enables RBWH patients to benefit from novel research and education developments. Collaborations are bolstered by a number of nursing, allied health and medical joint and adjunct appointments at RBWH reflecting the multidisciplinary nature of the research and education spanning the two organisations.

In addition to strengthening existing relationships, several new collaborations were developed in 2011. These included collaborations between the Department of Vascular Surgery (RBWH), the School of Exercise and Nutrition Sciences (QUT) and the Department of Gynaecology and the School of Biomedical Sciences (QUT). This involved several successful outcomes including an awarded Centre for Research Excellence (CRE), National Heart Foundation grants, and joint supervision of higher degree research students. Significant areas of growth include the Tissue Repair and Regeneration Team at QUT with the RBWH Foundation, the Prostate Cancer group and RBWH's Conjoint Endocrinology Laboratory, and several successful grants involving QUT's Trauma and Emergency Services research group.

The Academic Nursing Centre in the Centre for Clinical Nursing collaboration continues with assessing patient and service outcomes in Australian emergency departments, testing interventions for prevention of pressure injury in the intensive care unit, and the clinical and demographic profile of patients with chronic kidney disease in south-east Queensland. QUT has three nursing professorial units at the RBWH (acute surgery nursing, intensive care nursing and renal nursing) which continue to strengthen collaborative nursing research between the two organisations to improve outcomes for patients at the hospital. QUT is also a lead partner in Queensland Health's Centre for Palliative Care Research and Education (CPCRE) at RBWH.

The training and education of researchers and clinicians remains a strong focus. In 2011 there was a marked increase in enrolments of clinical professionals from the RBWH in higher degree research (HDR) programs at QUT. HDR student supervision engages staff and students from RBWH's Department of Nutrition and Dietetics, Royal Brisbane Clinical School, Department of Neurology, Internal Medicine Services, Department of Vascular Surgery, Radiation Therapy Cancer Care Services, Children's Nutrition Research Centre, Queensland Children's Medical Research Institute and the Department of Gynaecology. Key outcomes include publications in high quality journals and completions of higher degree research degrees.

The Faculty of Health at QUT continues to endorse a number of nursing, allied health and medical joint and adjunct appointments at the hospital. These formal appointments recognise the importance of bringing together knowledge and expertise across these two areas to bring about advances in the health sector.

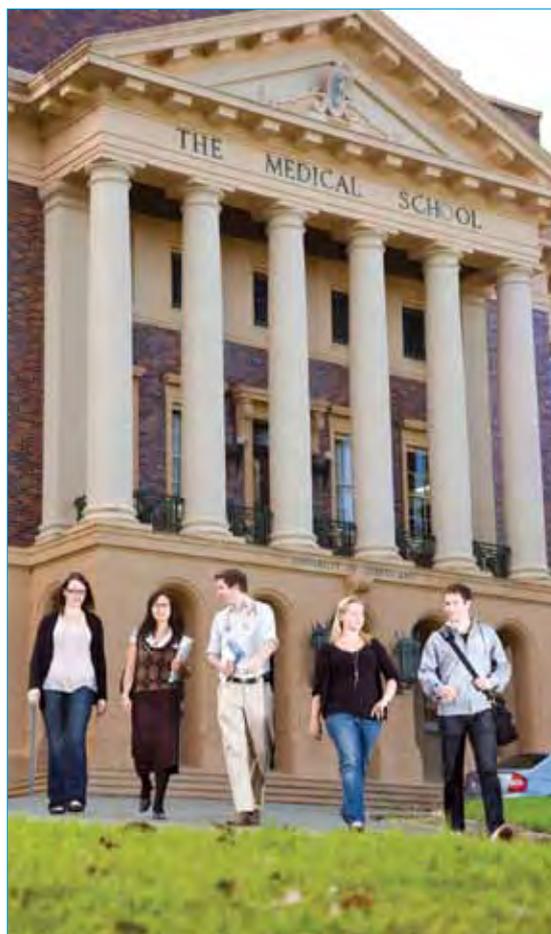
Professor Andrew Wilson
Executive Dean, Faculty of Health,
Queensland University of Technology





Professor Bruce Abernethy

Deputy Executive Dean
and Associate Dean
(Research), Faculty of
Health Sciences, The
University of Queensland



UQ: more than 100 years of education.

The University of Queensland

2011 has seen continued strengthening of the long-standing relationship between The University of Queensland (UQ) and the Royal Brisbane and Women's Hospital (RBWH).

It is a relationship that the university values strongly and actively seeks to nurture. It has been particularly pleasing over the past year to have seen further recognition of the importance of the nexus between research, teaching and clinical service delivery that the university-hospital partnership provides, and increased understanding of the essential foundation this presents for the potential future formation of a top-flight academic health sciences centre.

In 2011, as in previous years, the active interaction and collaboration between UQ and RBWH has occurred at many levels. There continues to be conjoint and academic title holder appointments of staff, joint research projects, joint commitments to the recruitment and support of academic clinicians, and joint contributions to the development of world class infrastructure, all of which enhance the research culture and capacity of the Herston precinct.

UQ's Schools of Medicine, Nursing and Midwifery and Population Health all have a core presence on the Herston campus and staff and research higher degree (MPhil and PhD) students from across these various schools engage collaboratively in research of direct relevance to the day-to-day activities of RBWH.

The activities of four of the School of Medicine's Research centres - the Burns, Trauma and Critical Care Research Centre (directed by Professor Jeff 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) are based at RBWH with direct involvement from key hospital units, departments and clinicians.

Over the course of the year, these centres have continued to undertake research projects and produce research outputs of direct clinical relevance. The University of Queensland Centre for Clinical Research (UQCCR) has grown further throughout 2011 with key researchers in the programme areas of mothers, babies and lifelong health, cancer, brain and mental health, infection, and immunity establishing additional strong links with hospital-based clinicians. The impending formation of the Asia Pacific Centre for Neuromodulation within UQCCR will provide exciting new and fertile grounds for further collaboration.

The UQ Faculty of Health Sciences looks forward to 2012 with genuine excitement in regard to the potential for even further enhancement of the research environment at the Herston campus and further consolidation and extension of the productive research collaborations with RBWH.

Two exciting new joint infrastructure projects that are currently underway – the \$120 million Oral Health Centre in collaboration with Queensland Health and the Herston Imaging and Research Facility (HIRF) in collaboration with RBWH, QIMR and QUT will near completion and provide a stimulus to further enhance the linkage between UQ and RBWH and the capacity and scope for world-leading research on the Herston campus.

Professor Bruce Abernethy

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



Nicky Foxlee

Manager, Herston Health Sciences Library and UQ Dentistry Library, The University of Queensland

Herston Health Sciences Library The University of Queensland

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, as well as 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)
- setting up journal clubs.

During the past year, RIS Librarians at Herston Health Sciences Library conducted 759 individual research consultations and undertook more than 100 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 at hospital journal clubs, including Surgical Day Care Unit (SDCU), Mental Health, Hospital Alcohol and Drug Service (HADS), Safety and Quality, and Immunology journal club. Metrics assistance for grant applications and data management advice has also been provided.

Royal Brisbane and Women's Hospital staff have access to world class research and scholarship through the print resources provided by the UQ Library. The 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 2011, the Herston Collection Development Committee, comprising representatives from the hospitals and the university, purchased 1,200 new items; 19,703 items were borrowed from the collection and 119,316 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 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. Librarians in the Research Information Service 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 advanced training in Microsoft Word and Microsoft Excel.

The document delivery service enables the Herston Health Sciences Library to meet the research and information needs of all of its clients. If an item, whether it be print or electronic, is unavailable from the collections of the UQ Library or CKN, it is obtained from another library within Australia or internationally. In 2011, the Herston Health Sciences Library supplied 1,371 document delivery requests for library clients.

During the past year, 988 library clients attended 97 information literacy classes held in the Herston Health Sciences Library eZone or in a hospital department and library staff contributed towards 35 RBWH orientations sessions for 888 new hospital staff.

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 Health Sciences News blog and a quarterly newsletter are 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. In 2011, Herston Health Sciences Library staff answered 13,044 questions from library clients.

RBWH, 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 2011, 84,001 people visited the Herston Health Sciences Library.

Nicky Foxlee

Manager

Herston Health Sciences Library

and UQ Dentistry Library

The University of Queensland



RBWH staff and students have access to world class research and scholarship through the print resources provided by the UQ Library.



Prof. Frank Gannon
Director and CEO
Queensland Institute of
Medical Research

Queensland Institute of Medical Research

The Queensland Institute of Medical Research (QIMR) continues to share strong links with the Royal Brisbane and Women's Hospital (RBWH). Our co-location lends itself to the development of strong collaborations, with many of our laboratories working closely with clinicians and hospital staff.

In order to achieve the best outcomes for patients, we are committed to further facilitating this essential linkage of scientific research and clinical practice. The completion of QIMR's new 15 floor research facility will allow for the introduction of additional conjoint laboratories that are vital to the scientific contributions of QIMR. We will also be seeking to expand the number of RBWH clinicians completing research projects within our laboratories.

An exciting future development is the Herston Imaging Research Facility (HIRF), a collaborative partnership between RBWH, QIMR, the Queensland University of Technology (QUT) and The University of Queensland (UQ). Anticipated to open in late 2012, this world class facility will incorporate multi-modality imaging capabilities and provide excellence in translational research. The HIRF will provide research imaging technology to support clinical research protocols, to develop and refine optimal imaging protocols for clinical care and to carry our research into imaging technology itself.

A longer term aspiration is to expand the established research and clinical collaborations and transform the Herston Campus into an Academic Health Science Centre. Together we can continue to consolidate Herston as a leading hub for medical research and treatment for all Queenslanders.

Professor Frank Gannon
Director and CEO
Queensland Institute of Medical Research



The University of Queensland Centre for Clinical Research

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

I am delighted to report that in 2011 UQCCR has enjoyed its best year since beginning operations. I would like to take this opportunity to thank all staff and students for their tremendous efforts throughout 2011.

Researchers at UQCCR have experienced outstanding success in receiving funding throughout 2011. In the latest NHMRC round we were awarded 11 of the 33 project grants submitted (where researchers were a lead investigator). This success rate of 33 per cent compares favourably with the national average of 22.5 per cent. Overall we received \$8.44 million in funding which is a significant proportion of the NHMRC funding awarded to UQ.

The flow of high quality publications from the centre increased substantially in 2011, with researchers publishing in major journals including Nature, Nature Genetics, Lancet and PLoS ONE. Publications totalled 312 this year, compared with 219 in 2010.

UQCCR is committed to continuously providing the highest quality student experience. We now have 103 higher degree research (HDR) students enrolled, with a strong list of new HDR students. In addition, we have been successful in attracting a very strong and experienced executive management team, including Eluca Kim and Harvey Kramer.

Educating and engaging with the community continued to be a high priority throughout 2011. This year we appointed Professor Wayne Hall as Deputy Director (Policy). Professor Hall will be focusing on increasing public visibility of UQCCR research in order to shape government policy.

We also appointed Dr James Scott, a bright, young researcher who is focussed on critical mental health problems in children and adolescents. His current research looks at early adverse events, such as bullying, and how these events affect children later in life. Dr Scott will no doubt be a strong leader in the community and aims to make recommendations to schools and government regarding effective bullying interventions. We hope to further increase our interactions with community groups and schools in the coming years.

As part of our commitment to providing researchers and students with world class platform technologies to give them a competitive edge in their studies and grant applications, we have initiated the Centre for Clinical Diagnostics on level seven. This will be a NATA-accredited environment essentially reducing time from discovery to direct patient benefit by 18 months or more.

In collaboration with Matt Brown (UQDI) and John Mattick (IMB) we have developed The Centre for Clinical Genomics which is located at the Diamantina Institute. With the intention of maximising expertise and infrastructure, UQCCR has provided two new next generation sequencers (HiSeq 2000 and MiSeq) and support for expert supervision.

We continue to make progress in building the Herston Imaging Research Facility (HIRF). This is a joint initiative of The University of Queensland, Queensland Health, Queensland University of Technology and the Queensland Institute of Medical Research. It will be an annex to UQCCR and will utilise our clinical facilities.

In addition, funding has been secured for the building and new MRI and PET-MR equipment.

We have devoted considerable effort to further developing partnerships with clinical colleagues and hospitals in Brisbane. In 2011, UQCCR hosted the Healthy Eating Learning Program (HELP) clinic – a study led by the Queensland Children's Medical Research Institute which aims to assist children with feeding difficulties.

In partnership with St Andrews Hospital and the Faculty of Health Science (UQ) we are establishing the Asia-Pacific Centre for Neuromodulation in 2012. This Centre will be located at UQCCR, with surgical facilities at St Andrews hospital. It will be built around the pioneering work of Professor Peter Silburn.

The growing reputations of both UQCCR and UQ, combined with the quality of facilities in Brisbane, have enabled UQCCR to succeed in a bid to host the Society for Gynecologic Investigation (SGI) International Summit in 2012. The SGI is the world's leading obstetrics and gynecology society. 2012 is already shaping up to be another wonderful year.

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



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

Human Research Ethics Committee

The national harmonisation process by which multicentre research studies are reviewed by a single Human Research Ethics Committees (HRECs) has progressed during 2011, from the development to the implementation and consolidation phase. There are more than 200 NHMRC registered HRECs in Australia. Of these, 40 are certified to conduct single ethical review in accordance with the national scheme. RBWH HREC was amongst the first to receive certification in January 2011 for a period of three years. There are jurisdictional challenges to mutual acceptance of HREC reviews across state boundaries. Uniformity across the country is being achieved gradually with states agreeing at health department level to accept clinical trial ethical reviews from another state. Thus, Victoria and Queensland health departments signed a memorandum of understanding to accept ethical reviews from certified committees of public sector hospitals in each state from October 2011. The New South Wales Government committed to become a signatory from early 2012.

NHMRC has concurrently provided national guidance on the operation of the certification scheme and institutional responsibilities related to monitoring and research governance. Both activities are, to a large extent, separate from the province of the HREC and are conducted separately from the HREC's chief responsibility of global ethical and scientific review. Two national guidance papers* have been issued in recent months by NHMRC to assist institutions in moving from the historical position of delegating study-related monitoring responsibilities to a HREC to the current standard whereby each research organisation reviews and monitors its own site's research activities.

RBWH HREC is certified to conduct single ethical review in adult research in the categories of clinical interventional research other than clinical trials, clinical trials (Phases I, II, III, IV) health services research, mental health, molecular biology, population health and/or public health, and qualitative health research. The review undertaken by HRECs in Australia includes scientific as well as ethical assessments, and RBWH HREC is fortunate in having a Scientific sub-Committee which provides a methodological opinion on studies prior to the main HREC review. Those research studies which have received grant funding under an independent peer review system do not always require this additional scientific assessment. This has been the case with several grant-funded research studies underway at RBWH.

Membership of the full HREC has remained steady over the last year at 26, and continues to fulfil the requirements for a NHMRC registered HREC in functioning in accordance with the National Statement on Ethical Conduct in Human Research (2007). Thus, the Committee meets monthly and includes six lay members, seven scientist/researchers and seven clinicians/practitioners with experience in the areas of research reviewed. A further nine clinicians/researchers constitute the Scientific sub-Committee. The various members devote many hours in a voluntary capacity to review of research and to training in the ethics of research.

As expected following the introduction of the new single ethical review system, the number of new research submissions received by the HREC declined in 2011 by nearly a fifth from the number seen in 2010. In 2011, 162 projects were submitted to the HREC. The median time from submission closing date to final ethical decision on research projects requiring full HREC review was 27 days, an improvement from 2010 of three days. The proposed key performance indicator under the new single ethical review process is 60 days.

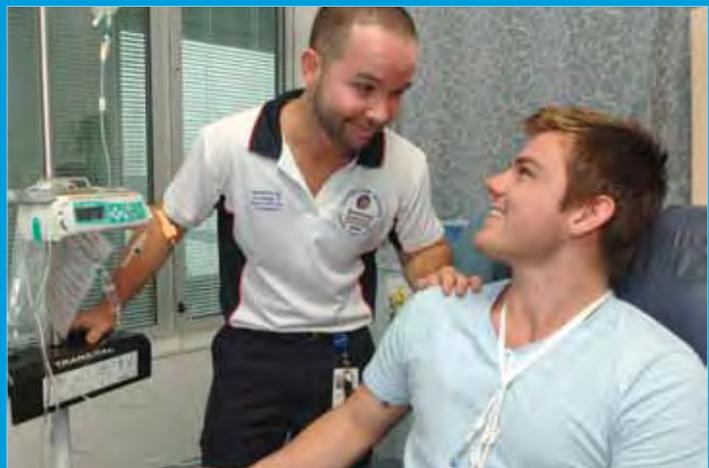
Monitoring of research also entails review of study amendments, safety, annual and final reports. The numbers of amendments reviewed during 2011 remained high at 319. There were more than 1,500 other reports submitted for monitoring to the Committee on a total of more than 1,000 active studies. Because of the unique role of the single reviewing HREC under the national system, much time is spent in the provision of general ethical advice to researchers by the Coordinator and Assistant Coordinator of the Committee prior to submission, and on communicating specific recommendations from the Committee after formal review of research. As a consequence opportunities for discussion with researchers are encouraged by the HREC and the institution and embraced by researchers themselves as vital to the maintenance of national research standards.

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

**NHMRC Framework for Monitoring: Guidance for the national approach to single ethical review of multicentre research and NHMRC Research Governance Handbook: Guidance for the national approach to single ethical review.*

<http://hrep.nhmrc.gov.au/toolbox/guidance-multicentre-research>

Cancer Care Services



Cancer Care Services



Assoc. Prof. Roger Allison
Executive Director
Cancer Care Services



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

Overview

Cancer Care Services at the Royal Brisbane and Women's Hospital (RBWH) is the largest cancer service in Queensland and one of the largest in Australia. The Service encompasses medical oncology, haematology and bone marrow transplant, the Queensland Haemophilia Centre, radiation oncology and nursing. It provides all treatment modalities within these streams.

2011 has been another busy and productive year for research within Cancer Care Services. We have continuing technological challenges, such as the installation of our second TomoTherapy machine, which allows us to plan and deliver complex radiotherapy treatments in a very efficient manner.

Our clinical researchers have been busy with expansion of clinical trial activity across all the divisions. Particularly pleasing is the growth in investigator-initiated research. The research grant income has increased substantially over the year and we are grateful to our donors for their ongoing financial support.

Technology continues to drive advances in oncology and as we position ourselves for 2012, we remain focussed on applying these advances to the maximum benefit of our patients.

Key departments

- Clinical Haematology and Bone Marrow Transplant 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 Unit

Overview

The Clinical Haematology and Bone Marrow Transplant Unit is the Clinical Haematology Referral Centre for the Central Zone, and the Bone Marrow Transplant Referral Centre for Queensland.

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 continues with its active research program, including a variety of local hospital and research facility studies, collaborative study group participation (such as the Australasian Leukaemia and Lymphoma Group), as well as participation in large international studies.

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

One such collaboration is the receipt of a Senior Clinical Research Fellowship (SCRF) which is enabling the development of a national reference centre of excellence for cellular therapy of leukaemia and managing the adverse affects associated with stem cell transplant.



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

Research staff

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

Research staff

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

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Department of Medical Oncology



Dr David Wyld
Director, Medical Oncology

Overview

The Department of Medical Oncology provides clinical services to patients at the Royal Brisbane and Women's Hospital 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.

We are currently involved in approximately 70 clinical trials. These include local hospital 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 and the ANZ Gynaecology-Oncology Group). The worth of our 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 growing collaboration between departmental clinical staff and other institutions such as the Queensland Institute of Medical Research (QIMR) and TPCH, improving the unit's ability to develop and participate in translational research programs. Areas of specific interest include Dr Po-Ling Inglis' collaborative work in the area of neuro-oncology, Dr Brett Hughes' ongoing collaboration on pulmonary malignancies with Dr K. Fong at TPCH, and other collaborations in the areas of colorectal cancer, pancreatic cancer, head and neck malignancies, gynaecologic cancers, and neuroendocrine tumours.

The department also has ongoing research links with the Department of Nuclear Medicine at RBWH, particularly in relation to PET imaging and in the area of radioisotope therapy for specific cancers. We currently have trials in progress in these areas.

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	MB, ChB, 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 (ClinEp), FRACP	Staff Specialist	gynaecology, breast, gastro-intestinal cancer
Dr Kathleen Houston	BMSc (Hons), MBChB, MRCP, FRACP	Staff Specialist	head and neck, pain management

Research staff

Name	Qualifications	Position	Interests/specialties
Jenny Campbell	RN, BSc (Nursing)	Clinical Trial Coordinator	clinical trials
Annette Cubitt	RN, GradCert (Clinical Trials Management)	Clinical Trials Coordinator	clinical trials
Andrea McKenzie	EEN	Clinical Trial Coordinator	clinical trials
Amanda Earley	RN	Clinical Trial Coordinator	clinical trials
Dianna Lewis	BSc (Nursing), GradCert (Cancer Nursing)	Clinical Trial Coordinator	clinical trials
Jo-Ann Horn	RN	Clinical Trial Coordinator	clinical trials
Natasha Roberts	BN (Hons)	Clinical Trial Coordinator	clinical trials
Amy Ives	BN, AssocScN	Clinical Trial Coordinator	clinical trials
David Hickey	BAppSc	Clinical Trial Coordinator	clinical trials
Victoria Holt	BA (Hons), GradDipLibStud	Research Assistant	clinical trials
Renu Shah		Administration Officer	clinical trials

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Department of Medical Oncology	Cancer Clinical Trial Data Management Grant	Queensland Cooperative Oncology Group	\$81,600	2011
Inglis P, QIMR, QBI, RBWH	QIMR/QBI/RBWH Brain tumour and Cell Culture Bank	RBWH Private Practice Trust Fund	\$90,024	2010-2011

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Department of 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. As well as a service to The Royal Children's Hospital (RCH) and The Prince Charles Hospital (TPCH), the department provides outreach services to Rockhampton, Longreach, Hervey Bay, Maryborough, Bundaberg, Redcliffe and Caboolture Hospitals. The unit is heavily technologically driven and is fortunate to be the first Australian site to have helical tomotherapy.

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) 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. Technological progress continues and we installed our second Tomotherapy unit in late 2011. 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 over 2011.



Assoc. Prof. Graeme Dickie
Director, Radiation Oncology

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Roger Allison	MBBS, MRCP, FRCR, FRANZCR, FChPM	Executive Director, Cancer Care Services	radiation oncology, paediatric
Assoc. Prof. Graeme Dickie	MBBS, MBA, FRACP, FRANZCR	Director, Radiation Oncology	radiation oncology
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 (Qld), 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, GradCert (CDM)	Clinical Trial Coordinator	research, clinical trials
Fay Scott		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

Research staff

Name	Qualifications	Position	Interests/specialities
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
Jemma Devereaux	BAppSc (RT)	Radiation Therapist	radiation therapy
Allison Dry	Nat Dip (Diag), NatDip (RadThpy), Cert IV T&A, GradCertHlthMgmt	Senior Radiation Therapist (Education)	radiation therapy
Shayne Etherton	BAppSc (RT)	Radiation Therapist	radiation therapy
Selina Harris	BAppSc (RT)	Radiation Therapist	radiation therapy
Rob McDowall	GradCertHlthMgt, 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
Kathy Vidler	DipAppSc (RT)	Radiation Therapist	radiation therapy
Christopher Walsh	BAppSc (RT)	Radiation Therapist (Advanced)	radiation therapy
Darren Cassidy	BSc (Hons)	A/Director Medical Physics	medical physics
Robert Fitchew	BSc (Hons), MSc	Principal Physicist	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	BSc, MSc	A/Physicist (Senior)	medical physics
Tim Markwell	BIT, BAppSc (Physics), MSc, PhD (in progress)	Physicist Oncology Treatment	medical physics
Christopher Poole	BEng, MSc, PhD (under examination)	Medical Physics (Research)	medical physics

Supervised postgraduate students

Name	Current studies	Research topic
Outhwaite J	PhD	Head and neck immobilisation and adaptive dosimetry for variation in patient contour during treatment
Baldwin Z	Masters of Research	Commissioning of total body irradiation on oncentra masterplan
Markwell T	PhD	Mega-voltage cone-beam CT
Poole C	PhD	4D dosimetry and dose calculation

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Schofield P, Aranda S, Juraskova I, Mileskin 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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
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	2010-2012
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	2011 for (2012-2014)
Dickie GJ	QCOG Cancer Clinical Trial Data Manager Grant	Queensland Clinical Oncology Group	\$44,400	2011
Fay M, Rose S, Boyd A, Whitaker A, Lee E, Fisk N, Crozier S	The development of innovative molecular imaging technology targeting improved diagnostic imaging and drug delivery for glioblastoma multiforme: A proof of concept study	RBWH Foundation	\$40,000	2011
Fay M	Rotary Club, Rockhampton North	Rotary	\$20,000	2011
Fay, M Marwell, T	Low-cost high-performance Monte Carlo cluster	RBWH Private Practice Trust Fund	\$8,500	2011

Publications

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*. 2011;56:116–122.

Hsu C C-T, Kwan GNC, Chawla A, Mitina N, Christie D. Smoking habits of radiotherapy patients: Did the diagnosis of cancer make an impact and is there an opportunity to intervene? *Journal of Medical Imaging and Radiation Oncology*. 2011;55:526-531.

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*. 2011;82:334-340.

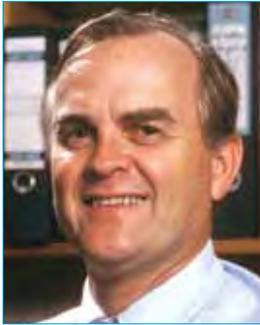
Martin J, Brett R, Blyth J, Morrison S, Bryant D, Plank A, Cheuk R, Fay M, Dickie G, Yaxley J. Dosimetric effect of external beam planning preceding combined high-dose-rate brachytherapy of the prostate. *Brachytherapy* 10. 2011;474-478.

Obermair A, Mileshkin L, Bolz K, Kondalsamy-Chennakesavan S, Cheuk R, Vasey P, Wyld D, Goh J, Nicklin JL, Perrin LC, Sykes P, Janda M. Prospective, non-randomised phase two clinical trial of carboplatin plus paclitaxel with sequential radical pelvic radiotherapy for uterine papillary serous carcinoma. *Gynecol Oncol*. 2011 Feb;120(2):179-84.

Poole C, Trapp JV, Kenny J, Kairn T, Williams K, Taylor M, Franich R, Langton C. A hybrid radiation detector for simultaneous spatial and temporal dosimetry. *Australasian Physical and Engineering Science in Medicine*. 2011:1-6.

Proust-Lima C, Taylor JM, Secher S, Sandler H, Kestin L, Pickles T, Bae K, Allison R, Williams S. Confirmation of a low alpha/beta ratio for prostate cancer treated by external beam radiation therapy alone using a post-treatment repeated-measures model for PSA dynamics. *Int J Rad Oncol Biol Phys*. 2011 Jan 1;79(1):195-201.

Queensland Haemophilia Centre



Dr John Rowell
Director, Haematology

Overview

The Queensland Haemophilia Centre is a statewide service based at the Royal Brisbane and Women's Hospital. 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.

The centre was involved in two clinical trials: A-LONG: an open-label, multicenter evaluation of the safety, pharmacokinetics and efficacy of recombinant factor VIII Fc fusion protein (rFVIII Fc) in the prevention and treatment of bleeding in previously treated subjects with severe Hemophilia; and, A and B-LONG: an open-label, multicenter evaluation of the safety, pharmacokinetics and efficacy of recombinant, long-acting coagulation factor IX Fc fusion (rFIX Fc) in the prevention and treatment of bleeding in previously treated subjects with severe Hemophilia B. Both these trials were to look at longer acting recombinant factor replacement therapy.

The Queensland Haemophilia Centre also received funding from the Haemophilia Foundation of Australia Research Fund to conduct a quality of life assessment, looking at perceived quality of life across the domains of physical, emotional and social health. This was done using the internationally recognised Haem-A-QoL questionnaire which has good reliability. The aim of the research was to ascertain a snapshot of the perceived health-related quality of life (HRQoL).

The results of this study indicated some areas in which patients with haemophilia experience the greatest impairments on their quality of life: physical health, view of self, sports and leisure, and future. Not surprisingly, those with severe haemophilia reported worse quality of life than those with moderate haemophilia.

This is the first study to use the Haem-A-QoL or any disease-specific quality of life measure within Australia. It would be helpful in the future to look toward gathering normative data for comparison with other study populations.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr John Rowell	MBBS, FRCPA, MBA	Director, Haematology, Pathology Queensland and Queensland Haemophilia Centre, CCS	haemophilia
Dr Rachel Bushing	MAPS, BPsychSc (Hons), DClinPsy	Research Assistant	research
Ms Beryl Zeissink	RN, MNurs, MSc (GenetCouns)	Clinical Nurse Consultant	haemophilia
Ms Olivia Hollingdrake	RN, GradCert (OncNursing), GradCert (Public Health)	Clinical Nurse	haemophilia
Ms Maureen Spilsbury	BSocialWk (Hons)	Advanced Social Worker	psychosocial aspects of inherited bleeding disorders
Dr Michelle Engels	MAPS, BPsych (Hons), DClinPsy	Research Assistant	research

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Rowell J, Bushing R, Spilsbury M, Engels M	Quality of life in adults with moderate and severe haemophilia: A current snapshot of the haemophilia community in Queensland, Australia	Haemophilia Foundation Australia Research Fund	\$13,731	2010-2011

Overview

The nursing team comprises 276 nursing staff, providing quality 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.

Both nurse researchers are authors for the Cochrane Collaboration (a world recognised evidence-based health care organisation). They are both involved in national and international research efforts. The research team also works in partnership with Centre for Clinical Nursing, The University of Queensland (UQ), Queensland University of Technology (QUT) and Griffith University.



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

Research staff

Name	Qualifications	Position	Interests/specialities
Raymond Chan	RN, BN, MAppSc, FRCNA	Nurse Researcher	evidence-based medicine, symptom management, patient education, palliative care, supportive care
Nicole Gavin	BSc (Hons)	Nurse Researcher	central venous access devices, haematology and bone marrow transplantation nursing

Supervised postgraduate students

Name	Current studies	Research topic
Chan R	PhD	Self-management associated with fatigue in patients with advanced cancer
Gavin N	Master of Advanced Practice	Effect of frequency of dressing changes for central venous access on central catheter infections

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Chan R (AI)	The RSVP Trial: Replacement of Intravascular device administration sets after standard versus prolonged use	NHMRC	\$1,555,000	2011-2014
Chan R	Self-management associated with fatigue in patients with advanced cancer	RBWH Foundation	\$60,000	2011
Geary A (AI)	Catheter-related bloodstream infections in adults with cancer: a prospective randomised controlled trial	Cancer Council Queensland	\$87,400	2011 for 2012-2013

Publications

Chan R, Yates P, McCarthy A. The aetiology, impact and management of cancer-related fatigue in patients with advanced cancer. *Aust J Cancer Nurs.* 2011;12:2:4-11.

Chan R, Webster J. A Cochrane review on the effects of end-of-life care pathways: do they improve patient outcomes? *Aust J Cancer Nurs.* 2011;12:2:26-30.

Chan R, Webster J, Marquart L. Interventions for orienting patients and their carers to cancer care facilities (Review). *Cochrane Db Sys Rev* 2011, Issue 12. Art. No.: CD008273. DOI: 10.1002/14651858.CD008273. pub2.

Chan R, Webster J. A national rollout of an insufficiently evaluated practice: how evidence-based are our end-of-life care policies? *J Pall Med.* 2011;14:7:840.

Chan R. Cochrane review summary for cancer nursing: Drug therapy for cancer-related fatigue. *Cancer Nurs.* 2011;34:3:250-251.

Chan R. Oral Oxycodone or Oxycodone plus paracetamol for acute postoperative pain. *J Pain Manage.* 2011;4(4):439-441.

Gavin N, Webster J, Chan R, Rickard C. Effect of Frequency of dressing changes for central venous access devices on catheter-related infections (Protocol). *Cochrane Db Sys Rev* 2011. Issue 7. Art. No: CD009213. DOI:10.1002/14651858.CD009213.

Corporate Services



Corporate Services



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 and contribute to all clinical service areas.

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
 - » Administrative Support Management Unit
 - » Food and Retail Services
 - » Occupational Health and Safety Unit
 - » Patient Support Services
 - » Security and Occupations Violence Prevention Services
 - » Switchboard Services

Executive and directing staff

- **Scott McMullen**
Executive Director, Corporate Services
- **Iris Frangos**
Manager, Medical Technology and Assets
- **Mohan Singh**
Director, Engineering and Building Services
- **Lyn Mason**
Director, Information Technology Services
- **Kelly Favaloro**
Manager, Strategy and Efficiency
- **Mark Whelan**
Director, Workplace Relations
- **Adj. Prof. Geoffrey Hitchings**
Director, Operational and Support Services

Research staff

Name	Qualifications	Position	Interests / Specialities
Scott McMullen	BA, BSOCWK, GCertHM	Executive Director, Corporate Services	evidence-based patient care, trauma counselling and health services/system research
Mark Whelan		Director, Workplace Relations	innovation and use of technology in education
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, MHLthSc	Director, Operational Support Services	workforce planning, food service delivery, occupational violence, risk engineering, safety management
Terri Brooker	BA Nurs, GradDipOHS	Occupational Health and Safety Manager	occupational violence, patient food and nutrition, safe work procedures

Research grants

Investigators	Project title	Granting Body	Amount awarded	Years of funding
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



Critical Care and Clinical Support Services



Assoc. Prof. Marianne Vonau
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 care research, including clinical trials 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 and consistently and critically analyse patients to ensure that effective and evidence-based practices are provided to all of our patients.

The Department of Intensive Care Medicine has been recognised as a Nursing Professorial Unit, Queensland University of Technology.

Key departments

- Department of Emergency Medicine
- Department of Intensive Care Medicine
- Staff Health Clinic and Private Practice Specialist Suite
- Professor Tess Cramond Multidisciplinary Pain Centre
- Centralised Specialist Outpatient Services
- Herston Multimedia Unit
- Hyperbaric Medicine Service

Executive and directing staff

- **Assoc. Prof. Marianne Vonau**
Executive Director, Critical Care and Clinical Support Services
- **Kerri McLeod**
Nursing Director, Critical Care and Clinical Support Services
- **Adj. Prof. Alan O'Connor**
Director, Emergency Medicine
- **Prof. Jeffrey Lipman**
Director, Intensive Care Medicine
- **Dr Patrick Mahoney**
Director, Staff Health Clinic and Private Practice Specialist Suite
- **Prof. Julia Fleming**
Director, Professor Tess Cramond Multidisciplinary Pain Centre
- **Dr Robert Webb**
Director, Hyperbaric Medicine Service

Department of Emergency Medicine

Overview

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

In 2011, the department continued to expand its research program through the creation of a half-time research registrar position and a nursing research portfolio group. The nursing research group are actively involved in more than 40 projects aimed at improving patient care.

Research staff include a half-time director of research, one full-time postdoctoral research officer, three PhD candidates, one honours student and an expanding group of dedicated research nurses.

The research team was successful in publishing in high quality journals and maintained its strong record of success in obtaining research funding. The department is well supported by The University of Queensland's Burns, Trauma and Critical Care Research Centre (BTCCR) and has active research collaborations with the School of Public Health at Queensland University of Technology (QUT), the Department of Cardiology, the Department of Intensive Care Medicine and Pathology Queensland.



Adj. Prof. Alan O'Connor
Director, Emergency Medicine

Research staff

Name	Qualifications	Position	Interests/specialities
Adj. Prof. Alan O'Connor	MBChB, FACEM	Director, Emergency Medicine	administration
Dr William Lukin	MBBS, FACEM	Deputy Director, Emergency Medicine	trauma, Hospital in the Nursing Home
Prof. Anthony Brown	MBChB, FRCP, FRCS (ED), FACEM, FCEM	Chair, Emergency Medicine	medical editing, medical education, acute coronary syndrome
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
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 (Hon), PhD	Research Fellow	psychology, statistics
Tracey Hawkins	BN, GradDipNursing (Critical Care and Emerg)	Clinical Nurse (Research)	acute coronary syndrome
Nicole Larcombe	BN	Clinical Nurse (Research)	sepsis
Bronwyn Thomas	BN, BAppSci, BHlthSci, MPH	Clinical Nurse (Research)	sepsis
Kimberley Ryan	BN, GradDipNursing (Critical Care)	Clinical Nurse (Research)	acute coronary syndrome
Shanen O'Kane	BN, GradDipNursing	Clinical Nurse (Research)	acute coronary syndrome
Dr Shane Martin	BSc, MBBS	Research Registrar	research
Carol Readman	DipHeNursing Studies	Clinical Nurse Consultant	nursing research
Sally Jones	BN, GradCert (Oncology)	Assistant Nursing Director	nursing research

Supervised postgraduate 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
Williams J	PhD	Sepsis
Jones S	Masters Nursing	Nursing administration

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Chu K, Lind J, Walholikar A, Crilly J, O'Dwyer J, Philips N, Greenslade J, Keijzers, G	Checking radiology reports and reviewing patient records: an IT solution for preventing missed limb fractures	QEMRF	\$139,001	2011-2012
Cullen L, Brown AFT, Greenslade J, O'Rourke P, Chu K, Hou X-Y, Parsonage W, Graves N, Than M, Tate J	A decision analytic cost-effectiveness model for chest pain pathways	QEMRF	\$41,716	2011-2013
Rashford S, Bodnar D, Tippett V, Parker L	A prospective, blinded evaluation of the sensitivity and specificity of pre-hospital focussed abdominal sonogram for trauma (FAST) performed by paramedics and emergency physicians as part of an initial assessment, with comparison to CT or operative findings, in patients with blunt or penetrating trauma, treated by a road-based rapid emergency response team in the greater Brisbane area	QEMRF	\$32,075	2010-2011
Williams J, Paterson D, Nimmo G, Greenslade J, Doucet K, Chu K, Lipman J, Brown AFT	Prevalence and risk factors associated with CA-MRSA in a Queensland emergency department	QEMRF	\$94,100	2010-2012
Cullen L, Greenslade J, Brown AFT	Accelerated pathway in the assessment of suspected acute coronary syndrome in the emergency department	RBWH Foundation	\$20,000	2011
Cullen L, Brown AFT, Greenslade J, O'Rourke P, Chu K, Parsonage W, Graves N, Than M, Tate J	Rapid assessment of cardiac chest pain: The Australia and New Zealand Assessment of chest pain rule (ANZAP rule): A prospective validation study	QEMRF	\$581,223	2010-2013
Logan P, Hughes J, Greenslade J, Halton K, Roberts J, Chu K, Wood C	A randomised, unblinded trial of continuous infusion versus bolus dosing of flucloxacillin in the management of uncomplicated cellulitis in an Emergency Department short stay ward	QEMRF	\$41,647	2010-2011
Lukin W, Hou X-Y, FitzGerald G, Green D, O'Connor A, Graves N, Barnard A, Greenslade J, Chu K, Watt Kerrienne, Clarke M, Courtney M	A comprehensive evaluation of a Hospital in the Nursing Home (HINH) program in three Queensland hospitals	QEMRF	\$297,846	2009-2012
Richardson P, Greenslade J, Chu K, Doran E	Medication and fluid orders in the emergency department: Examining the incidence of error and adverse events	QEMRF	\$88,064	2009-2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Williams J, Paterson D, Lipman J, Greenslade J, Brown AFT, Paratz J, Dulhunty J, Chu K	Examining sepsis in the emergency department: A prospective program of research designed to characterise and facilitate improved outcomes for admitted patients with community-acquired infection	QEMRF	\$90,000	2009-2011
Chu K, Spain D, Aitken P	A comparison of the implementation of interventions for controlling laboratory blood test ordering in four Queensland teaching hospital emergency departments	QEMRF	\$130,723	2009-2011
Richardson P, Chu K, Greenslade J	Validation of the CARING criteria: Predicting who should have an advanced health directive	QEMRF	\$47,000	2009-2011
Richardson P, Chu K, Greenslade J	End-of-Life Issues	QEMRF	\$50,000	2009-2011
Hurn C, Chu K, Muller M, Greenslade J, Hou X-Y, Cook S, Rowell J, Cambell D, Ward D, Lowe B, Holly A	Evaluation of a new massive transfusion protocol for exsanguinating trauma patients	Trauma Research Grant	\$97,305	2008-2011

Publications

- Aldous SJ, Richards M, Cullen L, Than MP. Early dynamic change in high-sensitivity cardiac troponin T in the investigation of acute myocardial infarction. *Clin Chem*. 2011;57(8):1154-1160.
- Brazil V, Greenslade J, Brown AFT. Enhancing capacity for intern training in the emergency department: The MoLIE Project. *MJA*. 2011; 194:165-168.
- Brown AFT. Should reading a journal article really change my practice? *EMA*. 2011;23:663-664.
- Cullen L. Troponin: A risk-defining biomarker for emergency department physicians. *EMA*. 2011;23:391-394.
- Gallagher FA, Tay KY, Vowler SL, Szutowicz H, Cross JJ, McAuley DJ, Antoun NM. Comparing the accuracy of initial head CT reporting by radiologists, radiology trainees, neuroradiographers and emergency doctors. *Br J Radiol*. 2011;84:1040-1045.
- Hunter J, Hammett C, Cullen L, Greenslade J, Brown A, Chu K, Parsonage W. Indeterminate Troponin elevations have poor positive predictive value for acute coronary syndrome in an emergency department population. *Heart Lung Circ*. 2011;20S:S1-S155.
- Jelinek G A, Brown AFT. A stand against drug company advertising. *EMA*. 2011; 23; 4-6.
- Lamanna A, Scott A, Bilesky J, Greenslade J, Cullen L, Denaro C, Brown A, Parsonage W. Limited utility of exercise stress test in the evaluation of suspected acute coronary syndrome in patients aged less than 40 years with intermediate risk features. *Heart Lung Circ*. 2011;20S; S156-S251.
- Lukin B. In that case. *Bioethical Inquiry*, 2011;8:105-106.
- Mahmoud I, Hou X-Y, Chu K, Clark M. Is language a barrier for quality care in hospitals? A case series from an emergency department of a teaching hospital in Brisbane. *Australas Epi*. 2011;18:6-9.
- Mangleson FJ, Cullen L, Scott AC. The evolution of chest pain pathways. *Crit Path Card*. 2011;10(2):69-75.
- O'Connor AE, Winch S, Lukin W, Parker M. Emergency Medicine and futile care: Taking the road less travelled. *EMA*. 2011; 23; 640-643.
- Rothwell SP, Rosengren DJ, Rojek AM, Williams JM, Lukin WG, Greenslade J. Exercise-associated hyponatraemia on the Kokoda trail. *EMA*. 2011;23; 712-716.
- Than M, Cullen L, Reid C et al. A 2-h diagnostic protocol to assess patients with chest pain symptoms in the Asia-Pacific region (ASPECT): A prospective observational validation study. *Lancet*. 2011 Mar;377(9771):1077-1084.
- Williams J, Greenslade J, Chu K, Brown AFT, Paterson D, Lipman J. Prior statin use is not associated with improved outcome in emergency patients admitted with infection. *Acad Emerg Med*. 2011;18:127-134.
- Williams J, Greenslade JH, McKenzie J, Chu K, Brown AFT, Paterson D, Lipman J. A prospective registry of emergency department patients admitted with infection. *BMC Infect Dis*. 2011;11:27.

Department of Intensive Care Medicine



Prof. Jeffrey Lipman
Director, Intensive Care
Medicine

Overview

From an academic point of view for the Department of Intensive Care Medicine/Intensive Care Unit (ICU), 2011 has been one of our most successful years. Medical, nursing and allied health staff of the unit have published more than 50 articles in peer-reviewed journals. This alone is a massive achievement. Congratulations to all concerned.

We were recipients of an NHMRC grant to perform a multicentred, double blind, randomised, controlled study (investigating the value of continuous infusion beta-lactams). This grant plus the European Intensive Care Society Award we got last year for DALI (Defining Antibiotic Levels in ICU), has added a new dimension to our research office – namely that of performing multicentred trials run out of RBWH ICU. We didn't realise how dimensionally different this is to our normal single centre studies. Therese Starr has led this expansion admirably.

A number of ICU staff received significant RBWH Foundation grants with Associate Professor Rob Boots being successful with grant funding from the Australian and New Zealand Intensive Care Foundation. New names on our successful grant list are Jayesh Dhanani and Judith Bellpart. Well done.

A special mention needs to go to Matt McGahan, whose postgraduate course work and ensuing research paper was awarded the Best Nursing Review Paper at the ANZICS/ACCN Intensive Care Annual Scientific Meeting 2011.

Jason Roberts has again been acknowledged as a superb researcher. He was awarded the ASCEPT Young Investigators Award and also received a University of Queensland Foundation Research Excellence award.

An exciting development this year has been the appointment of Professor Michael Reade as the inaugural Australian Defence Force (ADF) Professor of Military Medicine and Surgery at The University of Queensland. Professor Reade, who will be doing his clinical work in ICU, did his PhD in Oxford, and brings a different experience and knowledge both in clinical work and research methodology to our unit. His research interests into sedation will add to our unit's other research. We welcome Michael.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Jeffrey Lipman	MBBCh, DA (SA), FFA (SA), FFA (CritCare) (SA), FCICM, MD	Director, Intensive Care Medicine	management in intensive care, resuscitation of burns and pharmacokinetics of antibiotic dosage
Assoc. Prof. Rob 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 of 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; NHMRC Research Fellow	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	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

Research staff

Name	Qualifications	Position	Interests/specialities
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, endothelin as a marker of severity in subarachnoid hemorrhage vasospasm
Dr Anthony Holley	BSc, MBChB, DipPaeds, DipDHM, FACEM, FCICM	Senior Staff Intensivist	identifying alterations in microcirculation during shock using side stream dark field imaging
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 Senior Staff Intensivist	trauma, ethics in intensive care and air medial retrieval, documentation of death for transplants
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)	Physiotherapist, 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, GradDipHealth Prom	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	projects from protocol writing to publication, subject recruitment, data collection, liaison with other study coordinators and study sponsors

Research staff

Name	Qualifications	Position	Interests/specialities
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
Martha Druery	BA (Psych), BSocWk (Hons)	Social Worker	psychosocial outcomes following major burn injuries, bereavement outcomes for families following deaths in intensive care

Supervised postgraduate students

Name	Current studies	Research topic
Winzer B	PhD	Exercise to prevent oesophageal cancer
Stockton K	PhD	Fatigue in systemic lupus erythematosus
Al-Balushi R	PhD	Glutamine Supplementation in trauma patients
Kayambu G	PhD	Early rehabilitation in critical care
Bissett B	PhD	Inspiratory muscle training in ventilated patients
Walsh J	PhD	Predictors of success in pulmonary rehabilitation
Patel B	MPhil	Infection in burns patients
Williams J	PhD	Outcomes of septic patients presenting to the emergency department
Udy A	PhD	The impact of augmented renal clearance
Spermon M	MPhil	Prevention of donor site scarring in burns patients
Gray P	PhD	Management of pain in burns patients
Varghese J	PhD	Pharmacokinetics in continuous dialysis
Jarugula R	PhD	Analgesia in children with fractures
Adnan S	PhD	Antibiotic clearance in surgical drains
Wong G	MPhil	Multicentre evaluation of TDM in beta-lactam dosing
Hanrahan T	MPhil	Predisposing factors to vancomycin nephrotoxicity
Clark K	Hons	Potassium disturbances in patients receiving thiopentone treatment
Scheerlinck P	Hons	Maintenance of cerebral perfusion pressure in subarachnoid haemorrhage
Mitic G	Hons	Risk factors for recurrent atrial fibrillation in ICU

Achievements and awards

Award	Event	Recipient
Australia Day Certificate of Achievement for outstanding leadership to commitment to telehealth ICU series	Queensland Health Australia Day Awards	Lipman J
ANZICS Honour Roll for recognition of contribution to practice and development of Intensive Care Medicine	ANZICS	Lipman J
Denis Wade Johnson and Johnson Young Investigator Award	Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT)	Roberts J

Achievements and awards

Award	Event	Recipient
The University of Queensland Foundation Research Excellence Award		Roberts J
Research Citation Finalist for abstract 'Using population pharmacokinetics to develop personalised dosing regimens to achieve target concentrations by continuous infusion'	Society of Critical Care Medicine, San Diego, United States	Roberts J
Best Contributed Research Paper in Making Antibiotics Safe Section	Society of Hospital Pharmacists of Australia National Conference, Hobart	Roberts J
Merit Award for a medical presentation	Australia and New Zealand Burns Association, Brisbane	Roberts J
Nominee and Finalist for Clinical Pharmacist of the Year Award	Society of Hospital Pharmacists of Australia,	Roberts J
Research Citation Finalist	Society of Critical Care Medicine, San Diego, United States	Roberts J
Highly Commended Award for 'Exercise programmes are effective and safe in a burns population: a controlled trial'	ANZBA Meeting, Brisbane	Paratz J
Winner of Best Clinical Science Poster	RBWH Healthcare Symposium	Varghese J

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Rickard C, Wallis C, Young, Gowardman J, Whitby M, Fraser J, McMillan, Zhang D	Intravascular device administration sets: Replacement after standard versus prolonged use (RSVP Trial)	NHMRC Project Grant	\$1,555,305.30	2010-2012
Shekar S, Roberts JA, Smith M, Wallis SC, Thompson B, Pellegrino V, Buscher H, Welch S, Levkovich B	Pharmacokinetics of commonly used sedatives, analgesics, their metabolites and broad spectrum antibiotics during extracorporeal membrane oxygenation	The Prince Charles Hospital Foundation	\$9,997.84	2011-2012
Cooper M, Roberts J, Butler M	Non-haemolytic fridulimicins for the treatment of multi-drug resistant bacteria	NHMRC APP1026921	\$533,675	2011-2013
Seppelt I, Marshall A, Myburgh J, Lipman J, Francis J, Cuthbertson B, Glass P	An exploratory study of perceived risks, benefits and barriers to the use of selective decontamination of the digestive tract in Australasian ICUs (SuDDICU)	ANZCA/12/032	\$42,000	2011-2012
Roberts J	Improving antibiotic dosing in critically ill patients with renal failure	UQ Foundation Research Excellence Award	\$80,000	2011-2012
Boots R, Paratz J, Lipman J, Paterson D, Roberts J	Prevention of ventilator associated pneumonia by inhaled heparin	Intensive Care Foundation	\$35,000	2011-2012
Bellapart J, Boots R, Fraser J, Maybauer M	Investigation of the cerebral microcirculation after head injury: Pilot study	Brain Foundation	\$19,000	2011-2012
Coyer F, Stotts N	Device related pressure ulcers in critical care	Atlantic Philanthropies Grant	\$30,000	2011-2012
Churchill A, Coyer F	Revamp	RBWH Foundation	\$20,000	2011-2012
Muller M, Paratz J, Roberts J, Younger J, Dhanani J, Towsey K	Can adrenergic blockade improve outcome in burns?	RBWH Foundation	\$35,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Wullschleger M, Pollard C, Paratz J, Dulhunty J, Hosien S, Bandeshe H, Rashford S, Elcock M	The tyranny of distance, transfer, intervention and advice: A prospective study of patient management from the time of trauma to admission to a tertiary hospital intensive care unit	RBWH Foundation	\$35,000	2011
McGuire M, Hurn C, Pang G, Edwards M, Pollard C, Paratz J	Serial thrombelastography in the evaluation of a massive transfusion protocol	RBWH Foundation	\$35,000	2011
Venkatesh B, Finfer S, Myburgh J, Webb S, Cohen J	A randomised controlled trial of the effect of hydrocortisone on mortality in critically ill patients with septic shock	NHMRC Project Grant	\$3.8 million	2011-2016
Avent M, Roberts JA, Lipman J, Forrest A, Kirkpatrick CMJ, Ungerer J, McFarlane M, Patterson DL	Pilot study of pharmacokinetic and pharmacodynamic assessment of monotherapy versus combination therapy for the management of gram negative bacteraemia	RBWH Foundation	\$35,000	2011
Lipman J, Webb SAR, Roberts JA, Dulhunty J, Davis J, Gomersall C	A phase IIb randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients with severe sepsis	NHMRC Project Grant	\$915,978	2011-2013
Mullany D, Shekar K, Roberts JA, Smith M, Fraser J, McDonald C, Wallis SC, Kramer H	Disposition of sedative, analgesic and antibiotic drugs during extracorporeal membrane oxygenation	ANZCA Australian and New Zealand Intensive Care Foundation	\$38,500 \$12,000	2011-2012 2011-2012
Dhanani JA, Fraser J, Chew M, Roberts JA, Paterson DL	Study of the pharmacokinetics on inhaled antibiotics in lung tissue using the microdialysis technique	The Prince Charles Hospital Foundation	\$60,234.79	2011-2012
Reade MC, Celenza T, Lipman J, Inglis T	A pilot observational study of the utility of point-of-care quantification of circulating human DNA as a predictor of mortality in severe sepsis	UQ/UWA Bilateral Research Collaboration Award	\$12,000	2011-2012

Publications

Lewis P, Bartlett H, Townsend S, Courtney M, Mullany D, Coyer F. A prospective pilot study evaluation the 'cardiac decompensation score' in the setting of intra-aortic balloon counterpulsation. *Intensive and Critical Care Nursing* 2011;27(1):31-36.

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Professor Tess Cramond Multidisciplinary Pain Centre

Overview

The Professor Tess Cramond Multidisciplinary Pain Centre is a tertiary centre at RBWH offering assessment and care to patients with persistent pain, malignant pain and burns pain. Research is focussed around the assessment and optimal management of pain, factors contributing to persistent pain and the consequences of persistent pain.

In 2011, the Centre became part of the Statewide Persistent Pain Health Services Strategy with funding to establish four new multidisciplinary pain centres in Queensland, to form a collaborative network of five pain services in the state, with public health research related to pain and outcomes of treatment being one goal of the strategy.

The collaborative research program within the Professor Tess Cramond Multidisciplinary Pain Centre continues to examine pharmacological strategies for pain control, the role of the physical therapies in rehabilitation, attitudes towards patients with chronic pain, and assessment tools to identify the outcomes of pain management strategies and programs.

In addition to the ongoing PhD studies, Honours students in the Allied Health sciences undertake supervised projects in the pain centre and undergraduates undertake quality assurance projects related to quality use of medicines in the centre.

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.



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

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Julia Fleming	MBBS, PhD, FANZCA FFPMANZCA, DipMed (PainMngmt)	Director, Professor Tess Cramond Multidisciplinary Pain Centre	neurobiology of spinal sensory inhibition, neuropathic and metastatic bone pain, public health issues relating to persistent pain, including outcome measures and models of care, analgesic pharmacology
Dr Paul Gray	MBBS, FANZCA FFPMANZCA	Senior Staff Specialist (Pain Medicine and Anaesthesia)	specialisation in anaesthesia and pain medicine, pain of burn injury, vascular anaesthesia, management of persistent cancer and non-cancer pain including interventional pain medicine
Nicole Andrews	BOccThy (Hons I)	Occupational Therapist, Cramond Fellow	chronic pain management, CRPS, activity patterns in chronic pain
Karl Bagraith	BOccThy (Hons I)	Senior Occupational Therapist	outcome measurement in persistent pain and the clinical application of the International Classification of Functioning, Disability and Health
Michael Deen	BOccThy (Hons), MPhil	Occupational Therapist, Clinical Coordinator	pain assessment, life participation
Dr Sara Olsen	BPsycholSc (Hons), PhD	Psychologist	sleep and pain
Dr Bryce Clubb	MBBS, FRACR, FFPMANZCA, FACHAM, RACP	Staff Specialist (Pain and Addiction Medicine)	optimising care for pain with drug dependency

Supervised postgraduate students

Name	Current studies	Research topic
Gray P	PhD	The pain of burn injury with a focus on the neuropathic element
D'Arrigo R	Occupational Therapy Honours Student	Predictors of sleep quality in persons with chronic pain: A momentary within-persons perspective
Donohue G	Occupational Therapy Honours Student	Adult attachment and approach to activity in chronic pain

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Deen M, 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 Coordination Unit, Queensland Health	\$130,000	2011-2012
Silcock R, Barr J, Welsh A, Francis-King D	Exploring the experiences of those living with chronic pain compared to those caring for those with chronic pain in an inpatient pain management program in the acute hospital setting	RBWH Foundation	\$30,000	2011
Andrews N, Meredith P, Strong J	Approach to activity and determinants of daily function in patients with chronic pain: a momentary within-persons perspective	RBWH Foundation	\$20,000	2011
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
Fleming J, Williams B, Silcock R, Walker P, Kubler P	Intra-brachial arterial guanethidine injection as prevention against painful ischaemia of the hands in winter, in patients with Raynaud's phenomenon or other vasospastic conditions	ANZCA Pilot Grant	\$5,000	2011

Publications

Gray P, Kirby J, Smith MT, Cabot PJ, Williams B, Doecke J, Cramond T. Pregabalin in severe burn injury pain: A double-blind, randomised placebo-controlled trial. *Pain*. 2011;152:1279-88.

Andrews, N, Meredith, P, Strong, J. Adult attachment and reports of pain in experimentally-induced pain. *European Journal of Pain*. 2011;15:523-530.

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Allied Health Professions



Allied Health Professions



Judith Catherwood
Executive Director
Allied Health Professions

Overview

Allied Health Professions became a service line within RBWH in 2011. The service line comprises nine disciplines providing assessment, diagnostic, therapy, rehabilitation and support services across all parts of the hospital campus, including in patient 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.

In 2010, Queensland Health funded a number of Allied Health Research Fellows, one of which is located at RBWH. The position is currently vacant but there are plans to recruit to the role, after a review of the focus for the position is completed and an academic partner is identified. The position is professorial and leads the allied health research community in multidisciplinary research working in partnership with others across the campus, across other research collaboratives in Queensland and internationally. The role is key to building research capacity within allied health across all disciplines. The post works across all Health Practitioners (HP) disciplines, encompassing the HPs in other service lines e.g. radiographers, pharmacists, scientists etc.

There is substantial interest within allied health to further develop the research culture and capacity across disciplines. Each discipline has some excellent examples of research showcased in this report, but there are plans to develop this further in the fields of health services innovation, service and workforce development, as well as maintain a discipline specific focus in core practice areas. There are also plans to build a research infrastructure, including further development of joint clinical and academic positions, PhD students and a greater proportion of research active clinicians. Our aim will be to draw on collaborations to increase grants and funding opportunities.

Research in the future in allied health will drive clinical service improvement within RBWH and our vision is to be a world leader in allied health research creation, dissemination and education.

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, Allied Health Professions
- **Deborah McKenzie**
Director, Audiology
- **Dr Merylyn Banks**
Director, Nutrition and Dietetics
- **Susan Laracy**
Director, Occupational Therapy
- **Dr Mark Hollian**
Director, Orthotics and Prosthetics
- **Louise Luparia**
Acting Director, Physiotherapy
- **Anne Clair**
Director, Psychology
- **Peter Slattery**
Director, Rehabilitation Engineering
- **Jan Hinson**
Director, Social Work Services
- **Lynell Bassett**
Director, Speech Pathology

Department of Nutrition and Dietetics

Overview

The Department of Nutrition and Dietetics provides a comprehensive clinical service to inpatients and outpatients of RBWH. Services to inpatients include nutritional assessment, intervention and support. 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, heart failure, 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 the Burns, Trauma and Critical Care Research Centre (BTCCRC), Inflammatory bowel diseases Research Group, Internal Medicine Research Unit (IMRU), BAMBINO Research Group, Food Service Research Group and the Pressure Ulcer Project. 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) at Monash University. Collaborations with other hospitals include the Princess Alexandra, Prince Charles and Royal Children's hospitals and The Wesley Hospital. Academic partners are Queensland University of Technology (QUT), Institute of Health and Biomedical Innovation at QUT, The University of Queensland (UQ), The University of Queensland Centre for Clinical Research (UQCCR) and Queensland Institute of Medical Research (QIMR).



Dr Merrilyn Banks
Director, Nutrition
and Dietetics

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Merrilyn Banks	PhD, BScGradDipEd, GradDipNutrDiet, MHLthSci	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	Dietitian/Nutritionist	gastroenterology, IBD, Crohn's Disease
Sarah Cohen	BHLthSciNutrDiet	Dietitian/Nutritionist	oncology
Denise Cruickshank	BSc, GradDipNutrDiet, GradDipTeach (Sec), GradCertHlthMg	Senior Dietitian, Statewide Food Service Policy and Planning	food services
Susan de Jersey	BHLthSci NutrDiet (Hons), BAppSci, HMS (Hons), MPH, PhD candidate	Senior Dietitian/Nutritionist	maternal health, maternal obesity, infant feeding, gestational diabetes
Kathleen Dwyer	BHLthSciNutrDiet	Dietitian/Nutritionist	cancer care, pressure ulcers
Philip Juffs	BAppSci, GradDipNutrDiet, GradCertHlthMg	Team Leader, Clinical Dietetics	renal services
Simone Krutil	BSc, MNutrDiet	Dietitian/Nutritionist	gastroenterology, gastrostomys
Belinda Morey	BAppSci, HMS, BHLthSciNutrDiet	Dietitian/Nutritionist	oncology, renal and GDM
Dr Lynda Ross	PhD (BiomedSci), BNutrDiet (Hons)	Research Coordinator	chronic disease management, rare diseases

Research staff

Name	Qualifications	Position	Interests/specialities
Amy Scott	BHlthSciNutrDiet	Dietitian/Nutritionist	malnutrition, nutrition support
Siobhan Wallin	BHlthSciNutrDiet	Dietitian/Nutritionist	critical care, upper gastrointestinal surgery
Adrienne Young	BHlthSciNutrDiet (Hons), PhD candidate	Dietitian/Nutritionist	malnutrition, elderly

Supervised postgraduate students

Name	Current studies	Research topic
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	Improving nutritional care of hospitalised older adults through novel nutritional support strategies
Chapman-Kiddell C	MPhil	Role of diet in the development of inflammatory bowel disease
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
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
Roberts S	PhD	Nutrition in prevention of pressure ulcers in hospitalised patients

Achievements and awards

Award	Event	Recipient
NHMRC Postgraduate Scholarship		Jersey S
Australian Postgraduate Award		Young A
Outstanding Contribution Award for her role in getting malnutrition on the ACHS agenda and the subsequent introduction of the Nutrition Care Standard	29th National Dietitian's Association of Australia Conference, Adelaide	Banks M
Research in Practice Highly Commended oral presentation 'Shifting the macronutrient profile during energy restriction requires structured advice on the composition of meals and snacks	29th National Dietitian's Association of Australia Conference, Adelaide	Ross L
Service line Encouragement Award for 'Nutrition Pathways in Stem Cell Transplant'	RBWH QuARRIE Awards	Cohen S, Brown T
The Judy Bauer Evidence-Based Practice Award	The University of Queensland Student Awards	Wade T

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Brown T, Ross L, Banks M	Nutrition outcomes using the RBWH Swallowing and Nutrition Guidelines for Patients with Head and Neck Cancer	RBWH Foundation	\$12,000	2011
de Jersey S, Daniels L, Nicholson J, Callaway L, Ross L	Are we missing opportunities? Understanding health behaviours associated with overweight in pregnancy: The New Beginnings Healthy Mothers and Babies Study	RBWH Foundation	\$28,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Cohen S, Banks M	A randomised comparison of total parenteral nutrition and enteral feeding as nutritional support during treatment of haematological malignancies	RBWH Foundation	\$15,000	2011
Banks M, Paratz J, Cohen J, Albalushi R	Effect of intravenous glutamine supplementation in trauma patients receiving enteral nutrition: A prospective double-blind randomised clinical trial	RBWH Foundation	\$23,000	2011
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	Australian and New Zealand Society of Nephrology-Amgen Quality Assurance Grants Programme	\$10,000	2011-2012
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	Model of Care Project Grant, Queensland Health	\$138,000 (\$69,000 per annum for two years)	2011-2013
de Jersey S	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy - New Beginnings Healthy Mothers and Babies Study	NHMRC Post-graduate scholarship	\$75,520	2011-2013
Young A	Comparing the impact of ward-based feeding assistance models on energy and protein intake of hospitalised older adults and on staff behaviours and attitudes towards nutrition and feeding	Australian Postgraduate Award	\$68,580	2011-2013

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. *Clin Nutr.* 2011;31(1):41-7.

Al Balushi R, Paratz J, Cohen J, Banks M, Roberts J, Dulhunty J, Lipman J. Effect of intravenous glutamine supplementation in trauma patients receiving enteral nutrition study protocol (GLINT Study): A prospective, blinded, randomised, placebo-controlled clinical trial. *BMJ Open.* 2011;1:e000334 doi:10.1136/bmjopen-2011-000334.

Brown T, Findlay M. Current issues in the nutritional management of patients with head and neck cancer in Australia. *Cancer Forum.* 2011;35(2):92-6.

Davies A, Ridley E, Morrison S, McIlroy K, Banks M, Cooper J, Hardy G, Thomson A. A prospective study of the use of enteral and parenteral nutrition in severe acute pancreatitis patients in Australia and New Zealand. *Critical Care Medicine.* 2011;39(3):462-468.

De Jersey S, Ross L, Himstedt K, McIntyre HD, Callaway L for the BAMBINO group. Nutritional intake and weight gain in obese pregnant women: Some clues for intervention. *Nutr Diet.* 2011;68(1):53-9.

Findlay M, Bauer J, Brown T, Davidson W, Hill J, Isenring E, Talwar B, Bell K, Kiss N, Kumis R, Joeliger J, Sandison A, Taylor K. Evidence-based practice guidelines for the nutritional management of adult patients with head and neck cancer. *Clin Onc Soc Aust.* 2011; http://wiki.cancer.org.au/australia/COSA:Head_and_neck_cancer_nutrition_guidelines

Isenring E, Banks M, Ferguson M, Bauer J. Beyond malnutrition screening: appropriate methods to guide nutritional care for long term care residents, 2011. *JADA.* 2011;107:404-412.

Morey B, Brown T. A review of the evidence-based practice in nutrition related complementary therapies: Improving the knowledge of dietitians. *Cancer Forum.* 2011;35(2):112-21.

Mudge A, Kasper K, Clair A, Redfern H, Bell J, Barras M, Pachana N. Recurrent readmissions in medical patients: A prospective study. *J Hosp Med.* 2011;6(2):61-7.

Mudge AM, Ross LJ, Young AM, Isenring EA, Banks MD. Helping understand nutritional gaps in the elderly (HUNGER): A prospective study of patient factors associated with inadequate nutritional intake in older medical inpatients. *Clin Nutr.* 2011;30(3):320-5.

Publications

Orazio LK, Isbel NM, Armstrong KA, Tarnaskyj J, Johnson DW, Hale RE, Kaiser M, Banks MD, Hickman IJ. Evaluation of dietetic advice for modification of cardiovascular disease risk factors in renal transplant recipients. *J Renal Nutr.* 2011;21(6):462-71.

Ross L, Mudge A, Young A, Banks M. Everyone's problem but nobody's job: Staff perceptions and explanations for poor nutritional intake in older medical patients. *Nutr Diet.* 2011;68(1):41-6.

Ross L, Tapsell L, Probst Y. Optimising dietary fat in a weight loss-trial requires advice based on a structured "whole-of-diet" model. *Nutr Res.* 2011;31(9):683-90.

Department of Occupational Therapy

Overview

The Department of Occupational Therapy provides both secondary, tertiary and quaternary services specialising in burns, hands, lymphoedema, pain and stroke. The Crammond Fellow in Pain Management 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 2012-2013 to enhance the breadth of areas of the profession's scope of practice under investigation.



Susan Laracy
Director, Occupational
Therapy

Research staff

Name	Qualifications	Position	Interests/specialities
Nicole Andrews	BOccThy (Hons I)	Senior Occupational Therapist (Cramond Fellow)	chronic pain management, CRPS, activity patterns in chronic pain
Karl Bagraith	BOccThy (Hons I)	Senior Occupational Therapist	outcome measurement in persistent pain and the clinical application of the International Classification of Functioning, Disability and Health; risk screening in occupational therapy
Tennille Rowland	BOccThy, GradCert (Stroke), MPhil	HP5 Clinical Occupational Therapist	stroke, neurology

Supervised postgraduate 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
Donohue G	Occupational Therapy Honours Student	Adult attachment and approach to activity in chronic pain
Julia Hayes	Occupational Therapy Honours Student	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

Awards and achievements

Award	Event	Recipient
International Student Travel Award	International Society for Quality of Life Research, 18th ASM, Colorado, USA	Bagraith KS
Finalist Best Student Poster Prize	International Society for Quality of Life Research, 18th ASM, Colorado, USA	Bagraith KS
Best Overall Oral Prize	The University of Queensland Postgraduate Research Conference	Bagraith KS

Research grants

Investigators	Project 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	RBWH Foundation	\$20,000	2011
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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Bagraith KS, Strong J, Sussex R, Gibson E	Using the International Classification of Functioning, Disability and Health (ICF) to define the clinical assessment and measurement of outcomes in patients with CLBP	RBWH Foundation	\$15,000	2011
Laracy S, Foley E, Bagraith KS, Alison R	The value of risk screening patients with differentiated thyroid carcinoma undergoing radioiodine therapy	RBWH Private Practice Trust Fund	\$50,000	2011

Publications

Andrews N, Meredith P, Strong J. Adult attachment and reports of pain in experimentally-induced pain. *European Journal of Pain*. 2011; 15:523-530.

Chardon L, Bagraith KS, King RJ. Counselling activity in single-session online counselling with adolescents: An adherence study. *Psychother Res*. 2011 Sep;21(5):583-92.

Bennett S, Hoffmann T, Arkins M. A multi-professional evidence-based practice course improved allied health students' confidence and knowledge. *Journal of Evaluation in Clinical Practice*. 2011;17(4):635-9.

Rowland TJ, Turpin M, Gustafsson L, Henderson RD, Read SJ. Chedoke Arm and Hand Activity Inventory-9 (CAHAI-9): Perceived clinical utility within 14 days of stroke. *Top Stroke Rehabil*. 2011;18(4):382-93.

Rowland TJ, Gustafsson L, Turpin M, Henderson RD, Read SJ. Chedoke Arm and Hand Activity Inventory-9 (CAHAI-9): A multicentre investigation of clinical utility. *International Journal of Therapy and Rehabilitation*. 2011;18(5):290-96.

Department of Physiotherapy

Overview

The Department of Physiotherapy provides services to both inpatients and outpatients of the Royal Brisbane and Women's Hospital 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.

Research is undertaken by staff members with specific interest in their fields of professional practice and expertise. Key areas of interest in 2011 were burns, heart failure, neurology, neonates and musculo-skeletal conditions.

The joint research position with Griffith University's School of Physiotherapy and Exercise Science was filled in 2011 by Dr Jane Grayson, and Dr Sean O'Leary continues as the Principal Research Fellow in the joint research position with The University of Queensland (UQ).



Louise Luparia
Acting Director, Physiotherapy

Research staff

Name	Qualifications	Position	Interests/specialities
Julie Adsett	BPhy (Hons)	Advanced Clinical Physiotherapist	heart failure, critical care
Praline Choolun	BSc (Phy), GradDip (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
Dr Shaun O'Leary	BPhy (Hons), MPhty(Manip), PhD, FACP	Principal Research Fellow	musculoskeletal conditions
Madonna Puglisi	BPhy (Hons)	Senior Physiotherapist	burns
Hildegard Reul-Hirche	DipPhy	Advanced Clinical Physiotherapist	lymphoedema, breast surgery
Sonia Sam	BPhy	Physiotherapist	neonatal physiotherapy

Supervised postgraduate students

Name	Current studies	Research topic
Bet-Or, Y	Research Masters	Scapular dysfunction in neck pain
Burke, B	PhD	Prediction of outcome in total knee arthroplasty
Masters group project	Coursework Masters (Research Component)	Cervical spine strength and endurance profiles
Choolun, P	MPhil	Tracking changes in scapular position in acute post-stroke hemiplegia patients: An observational study

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Crossley K, Hodges P, Jull G, Vicenzino B, O'Leary S, Brauer S, Cunnington R, Bartlett P, Crozier S, Bennell K, Hinman R, Wrigley T	Gait analysis for clinical research	NHMRC	\$35,000	2011
O'Leary S, Raymer M, Smith D, Hodges P, Jull G	Determinants of success in the non-operative management of three common orthopaedic conditions managed in Queensland Health?	RBWH Research Grant	\$30,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Puglisi M	Is TENS useful in the management of donor site pain and the improvement of function post split skin graft procedure	RBWH Research Grant	\$15,000	2011
Adsett J	Aquatic versus land based exercise for patients with chronic heart failure	Queensland Health Health Practitioner Research Scheme	\$24,458	2011-2012
Adsett J	Safety of water based exercise programmes for people with chronic heart failure	RBWH Research Grant	\$30,000	2011
Adsett J	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	2011
McCrae P, Mudge A, Walker P, Dungleison N, Gardiner R, Williams H, de Ruiter C, Cruickshank M, Barnbrook C, Woollett K, Slaughter B	Identifying interdisciplinary care needs in older surgical inpatients	RBWH Research Grant	\$37,000	2011

Publications

O'Leary S, Falla D, Jull G. The relationship between superficial muscle activity during the cranio-cervical flexion test and clinical features in patients with chronic neck pain. *Manual Therapy*. 2011;16:452-455.

Cagnie B, O'Leary S, Elliott J, Peeters I, Parlevliet T, Danneels L. Experimental muscle pain induces a functional reorganisation of the cervical extensor muscles during a neck extension exercise. *The Clinical Journal of Pain*. 2011;27:392-397.

O'Leary S, Cagnie B, Reeve A, Jull G, Elliott J. Is there altered activity of the extensor muscles in chronic mechanical neck pain? A functional magnetic resonance imaging study. *Archives of Physical Medicine and Rehabilitation*. 2011;92:929-934.

Falla D, O'Leary S, Farina D, Jull G. Association between intensity of pain and impairment in onset and activation of the deep cervical flexors in patients with persistent neck pain. *The Clinical Journal of Pain*. 2011;27(4):309-314.

Vertullo C, Quick M, Jones A, Grayson J. A surgical technique using presoaked vancomycin hamstring grafts to decrease the risk of infection after anterior cruciate ligament reconstruction. *Arthroscopy: Journal of Arthroscopic Repair and Related Surgery* 2011, Vol 28(3):337-342.

Reul-Hirche H (2011): Manual lymph drainage when added to exercise may not be effective in preventing lymphoedema after surgery for breast cancer. [commentary]. *Journal of Physiotherapy*. 57:258.

Mudge A, Denaro C, Scott A, Atherton J, Myers D, Marwick T, Adsett J, Mullins R, Suna J, Scuffhum P, O'Rourke P. Exercise training in recently hospitalised patients with heart failure enrolled in a disease management programme: Design of the EJECTION-HF Randomised Controlled Trial. *Eur J Heart Fail*. 2011;13(12):1370-5.

Adsett J, Mullins R, Hwang R, Hogden A, Gibson E, Houlihan K, Tuppin M, Korczyk D, Mallitt, K, Mudge A. Repeated six minute walk tests in patients with chronic heart failure: Are they clinically necessary? *Eur J Cardiovasc Prev Rehabil*. 2011;18(4):601-606.

Department of Psychology

Overview

The Department of Psychology provides evidence-based clinical psychology services for inpatients and outpatients who are receiving hospital services for physical health problems.

Services provided include:

- Clinical psychology assessment and treatment for inpatients and outpatients on screening or referral
- Screening of specific patient streams based on evidence for relevance of psychological, emotional or behavioural factors for physical health outcomes
- Education of specific patient groups regarding psychological, emotional or behavioural topics relevant to their health self-management
- Assistance for staff with managing difficult patient behaviour
- Treatment modalities include behaviour therapy, cognitive behaviour therapy, counselling and hypnosis applied in an evidence-based manner.

In 2011, research contributions have been made from the Department of Psychology in the areas of obesity, recurrent admissions to hospital and building resilience in children.

Research into obesity looked at psychological factors affecting emotional eating. The study on recurrent admissions examined both psychological and non-psychological factors affecting admission. Both have been published in 2011. The study into building resilience in children has been accepted for publication. A study on stress and burnout in renal nurses was submitted and accepted for publication.



Anne Clair
Director, Psychology

Supervised postgraduate students

Name	Current studies	Research topic
Doolan G	Masters (Clinical Psychology)	Stress and burnout in renal nurses

Publications

- Andrews R, Lowe R, Clair A. The relationship between basic need satisfaction and emotional eating in obesity. *Aust J Psychol.* 2011
- Mudge A, Kasper K, Clair A, Redfern H, Bell J, Barras M, Pachana N. Recurrent readmissions in medical patients: A prospective study. *J Hosp Med.* 2011 Feb;6(2).

Rehabilitation Engineering Centre



Peter Slattery
Director, Rehabilitation
Engineering

Overview

The Rehabilitation Engineering Centre has continued 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 was reported in a paper presented at the Medical Aids Subsidy Scheme (MASS) wheelchair prescriber workshops in August 2011. Principal RBWH Researchers are 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 final year undergraduate student project was completed in June 2011 as background for this project. The prototype mannequin was completed in July 2011 and the first education sessions delivered in August 2011. Results of feedback have been used to develop a specification for a second iteration of the mannequin planned for completion in 2012. Principal Researcher is 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. The preliminary cyclic testing rig was completed in July 2011. Testing protocols have been developed with full testing scheduled to begin in mid 2012. Progress on this project and outcomes from previous projects on this topic were presented in August 2011 at the MASS workshop. Principal Researcher is Peter Slattery.

Research staff

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

Department of Social Work Services

Overview

The Royal Brisbane and Women's Hospital 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 departmental research programme 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
- actively promote 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.

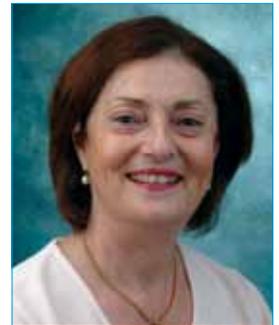
Research achievements in 2011 include:

Research partnerships:

- Queensland University of Technology School of Public Health and Social Work and the 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) and the supervision of a social work research scholarship student.
- The University of Queensland 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:

- '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.
- 'Implementing a structured interdisciplinary decision making capacity pathway with vulnerable hospitalised older persons' (Investigators: Winter E, Redfern H [Mentor]), Internal Medicine, RBWH.
- Three doctoral theses progressed: One PhD thesis submitted for examination entitled 'Behind the masks: A study of social work, trauma and the complex hospital organisation' (Hinson, J).
- 'Development of a collaborative intervention model in chronic kidney disease self management for identified Aboriginal and Torres Strait Islander communities' (Redfern H, Glynn H) collaborative project with RBWH Department of Renal Medicine and the Kidney Support Network.
- The 'Thriving not Surviving' project progressed, implementing a capability and support framework for new staff and new graduates (De Ruiter A, Jones K).



Jan Hinson
Director, Social Work Services

Research staff

Name	Qualifications	Position	Interests/specialities
Jan Hinson	BSocWk (UQ), MSWAP (UQ), MASSW (Acc.)	Director, Social Work Services	trauma and violence, child protection
Helen Redfern	BSocWk (UQ), MASW (UQ), MAASW	Research Coordinator (part-time)	chronic disease, ethics, aged care and disability, clinical education
Wayne Middleton	BSocWk (UQ), Master of Health Science, Health Services Management (QUT)	Social Worker - Advanced	clinical governance

Research staff

Name	Qualifications	Position	Interests/specialities
Hayley Parsons	BSocWk, MASW (UQ)	Social Worker	evidence-based practice and professional identity
Anne de Ruiter	MPhil (UQ)	Social Worker	workforce capability
Martha Druery	BA (Psych), BSocWk (Hons)	Social Worker (Advanced)	psychosocial outcomes, burn injuries, family bereavement and trauma
Kerrie Jones	BSocWk (UQ), GradDiplInfoSys (QUT)	Social Worker (Advanced)	workforce capability
Harold Glynn	BSocWk	Social Worker (Advanced)	chronic disease
Emily Winter	BSocWk	Social Worker (Advanced)	aged care

Supervised postgraduate 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	PhD	Evidence-based hospital social workers' experience of organisational culture and professional identity

Achievements and awards

Award	Event	Recipient
Conference presentation 'Motivation and adherence to therapy programs (from adolescence to the Elderly)'	ANZBA Meeting	Druery M
Conference presentation 'Practical care of newborns and neonatal abstinence syndrome (NAS)'	National Foster and Kinship Carer Conference	Waples L, Taylor K
Vacation Research Experience Scholarship, QUT Vacation Research Experience Scholarship Scheme		Seiffert H

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Redfern H, Glynn H	A collaborative intervention model (RBWH and Kidney Support Network) in chronic kidney disease self management with Aboriginal and Torres Strait Islander Communities	RBWH Private Practice Fund	\$68,838	2009-2011
Jones K, De Ruiter A	Thriving not Surviving – Phase 2	RBWH Private Practice Fund	\$85,000	2009-2011
Winter E	Implementing a structured interdisciplinary decision making capacity pathway with vulnerable hospitalised older persons	HP Research Scheme	\$10,000	2010-2011

Department of 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 RBWH Acute Hospital and the Geriatric Assessment and Rehabilitation Unit (GARU) at 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 - investigation of aphasia specific information provided to patient's with aphasia and their families
- Dysphagia following thermal burn injury
- Dysphagia screening, swallowing rehabilitation
- Telehealth and telerehabilitation.



Lynell Bassett
Director, Speech Pathology

Research staff

Name	Qualifications	Position	Interests/specialities
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, cancer care
Anna Farrell	BSpPath (Hons), PhD	Senior Speech Pathologist	adult motor speech disorders, dysphagia
Sarah Heaton	BSpPath	Senior Speech Pathologist	dysphagia screening, burns
Prof. Elizabeth Ward	BSpPath (Hons), PhD, GradCertEd	Prof. Centre for Functioning and Health Research (CFAHR), Queensland Health; Conjoint Prof. School of Health and Rehabilitation Sciences, UQ	head and neck cancer, dysphagia associated with thermal burns, telehealth and telerehabilitation, intensive care
Marita Plunkett	BSpPath (Hons)	Speech Pathology Clinical Educator	clinical education, adult communication disorders

Supervised postgraduate students

Name	Current studies	Research topic
Rumbach A	PhD	Dysphagia following thermal burn injury: Determining incidence, risk factors, treatment targets, and indicators of recovery
Sharma S	PhD	Can dysphagia be adequately assessed online?

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Bassett L, Baker S, Hancock K, Ward E, Hyde T	The evaluation of a tracheostomy simulation training program for speech pathologists	Health Practitioner Research Scheme	\$19,301	2011-2012
Burns C, Ward E, Bassett L, Greenup P, Kenny E	Examination of a telehealth service for the management of swallowing and communication disorders of patients with head and neck cancer	Health Practitioner Research Scheme	\$37,271	2011-2012
Plunkett M; investigators from Metro North, Metro South and Toowoomba Hospital and Health Services; Royal Children's Hospital, The University of Queensland	A comparative study of paired and single clinical placement models: An activity level analysis	Health Practitioner Research Scheme	\$9,968	2011-2012

Publications

Rumbach AF, Ward EC, Cornwell PL, Bassett LV, Khan A, Muller MJ. Incidence and predictive factors for dysphagia following thermal burn injury: A prospective cohort study. *Journal of Burn Care and Research*. 2011;32(6):608-616.

Rumbach AF, Ward EC, Cornwell PL, Bassett LV, Muller MJ. Physiological characteristics of dysphagia following thermal burn injury. *Dysphagia*. Online First. 2011; November, 22;s00455-011-9376-7.

Rumbach AF, Ward EC, Cornwell PL, Bassett LV, Spermon ML, Plaza AL, Muller MJ. Dysphagia rehabilitation after severe burn injury: An interdisciplinary and multidisciplinary collaborative. *Journal of Medical Speech-language Pathology*. 2011;19(1):25-34.

Sharma S, Ward EC, Burns C, Theodoros DG, Russell T. Assessing swallowing disorders online: A pilot telerehabilitation study. *Journal of Telemedicine and eHealth*. 2011;17(9):1-8.

Ward EC, Christiansen S, Denny V, Harris E, Cheng L, Crombie A. Presentation characteristics and management of dysphagia in patients with Ludwig's Angina. *Journal of Medical Speech Language Pathology*. 2011;19(2):1-10.

Internal Medicine Services



Internal Medicine Services



Assoc. Prof. Tony Allworth
Acting Executive Director
Internal Medicine Services



Kate Mason
Nursing Director
Internal Medicine Services

Overview

Internal Medicine Services has a commitment to academic medicine, with areas of outstanding research productivity. To support 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 evidence-based practice and multidisciplinary research across all of the service line. In most areas of Internal Medicine Services Research, assistant roles are fulfilled by highly skilled nursing staff.

We are proud of the fact that over the last year, we had a nine per cent increase in publications and 37 per cent 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
- Department of Neurology
- Department of Nuclear Medicine including Queensland PET Service
- Palliative Care Service
- Department of Pharmacy
- Department of Renal Medicine
- Department of Rheumatology
- Department of Thoracic Medicine

Executive and directing staff

- **Assoc. Prof. Tony Allworth**
Acting Executive Director
Internal Medicine Services
- **Kate Mason**
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
- **Prof. Barbara Leggett**
Director, Gastroenterology and Hepatology
- **Assoc. Prof. Julie McGaughan**
Director, Genetic Health Queensland
- **Assoc. Prof. Tony Allworth**
Director, Infectious Diseases Unit
- **Assoc. Prof. Charles Denaro**
Director, Internal Medicine and Aged Care
- **Dr Robert Henderson**
Director, Neurology
- **Dr William Fong**
Director, Nuclear Medicine
- **Dr Carol Douglas**
Clinical Director, Palliative Care Service
- **Assoc. Prof. Ian Coombes**
Director, Pharmacy
- **Dr Helen Healy**
Director, Renal Medicine
- **Dr Paul Kubler**
Director, Rheumatology
- **Assoc. Prof. Stephen Morrison**
Director, Thoracic Medicine

Department of Cardiology

Overview

The Department of Cardiology has a CCU and telemetered ward beds. Non-invasive services include ambulatory ECG and BP monitoring, exercise ECG, tilt testing, cardioversion and echocardiography (transthoracic, transoesophageal, stress, contrast, 3D). The Department provides multislice CT coronary angiography and cardiac MRI (collaboration with medical imaging department). Invasive services include cardiac catheterisation, percutaneous coronary intervention, intravascular ultrasound, coronary pressure wires, intra-aortic balloon pumps, balloon valvuloplasty, atrial septal device closure, temporary and permanent pacing (including biventricular), electrophysiology procedures (including 3D-mapping capability) and implantable cardioverter defibrillators (ICD). Outpatient clinics include general cardiology, cardiomyopathy, cardiac genetics, cardiac obstetrics, pacemaker/ ICD and preadmission. The Department also conducts indigenous outreach clinics in Rockhampton and Woorabinda.

Other services include cardiac rehabilitation, an accelerated chest pain assessment protocol (collaboration with emergency and internal medicine departments) which includes seven-day stress testing, and a heart failure multidisciplinary program (collaboration with internal medicine department).

The Department of Cardiology has a strong clinical trials research program in acute coronary syndromes, heart failure, pacing and atrial fibrillation. In 2011, and was the lead recruiting site globally for the ATLAS-2 study and in Australasia for PEGASUS, SOLID and TAO.

A broad investigator-driven research focus involves health service delivery and evaluation including chest pain assessment, heart failure disease management, alternative models of cardiac rehabilitation, cardiac genetics (including the National Genetic Heart Disease Registry), cardiac obstetrics and multimodality imaging. Additional research interests includes a dedicated electrophysiology animal laboratory, atrial fibrillation, Fabry disease and heart failure prevention.



Assoc. Prof. John Atherton
Director, Cardiology

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. John Atherton	MBBS, PhD, FRACP, FCSANZ	Director, Cardiology	heart failure, cardiac genetics, cardiac rehabilitation, economics
Dr Thomas Butler	MBBS	Cardiology Registrar	
Dr Stuart Butterly	MBBS, PhD	Cardiology Registrar	
Dr Anthony Camuglia	MBBS	Cardiology Registrar	
Dr Karin Chia	MBBS, FRACP	Staff Cardiologist and Electrophysiologist	electrophysiology
Dr Julie Ch'ng	MBBS, FRACP	Staff Cardiologist	echocardiography
Dr David Cross	MBBS FRACP FCSANZ	Visiting Senior Cardiologist	clinical trials, acute coronary syndromes
Dr Mark Dooris	MBBS (Hons2), FRACP, GradDip Sci (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
Dr Arvin Lamanna	MBBS	Cardiology Registrar	
Lydia Lilwall	BN	Clinical Trials Coordinator	clinical trials

Research staff

Name	Qualifications	Position	Interests/specialities
Ada Lo	GradDipAppSci, Masters	Senior Echocardiographer	echocardiography, cardiomyopathies, novel echocardiographic imaging techniques
Dr Paul Martin	MBBCh, MRCPI, FRACP, PhD, FCSANZ	Staff Cardiologist; 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 postgraduate students

Name	Current studies	Research topic
Ingles J	PhD	Establishment of a National Genetic Heart Disease Registry (conferred 2011)
Suna J	Masters of Research	The effect of aerobic exercise on sleep quality in congestive heart failure
Noonan K	Masters of Applied Science	Do anti-inflammatory agents promote linear ablation lesion breakthrough in pigs: An electrophysiological examination (conferred 2011)
Poulter R	Masters of Philosophy	Evaluating the diagnostic performance of dual energy cardiac computed tomography
Stockton K	PhD	Cardiac magnetic resonance imaging in women with systemic lupus erythematosus and no known cardiovascular disease

Achievements and awards

Award	Event	Recipient
Cardiac Society of Australia and New Zealand 2011 Allied Health Affiliate Prize (awarded for presentation 'A cost-effectiveness analysis of genetic testing in the evaluation of families with hypertrophic cardiomyopathy')	Cardiac Society of Australia and New Zealand Annual Scientific Meeting, Perth	Ingles J

Research grants

Investigators	Project 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	2008-2011
Oldenburg B, Hare D, Taylor CB, Hollingsworth B, Sanderson K, Hawkes A, Atherton J, Jelinek M	An implementation trial of a telehealth program for depression in patients following myocardial infarction	NHMRC Project Grant/ DHA Sharing Health Care Initiative (SHCI) Commonwealth Government Innovation in Chronic Disease Self-management Research Grants Program	\$1,223,463	2009-2011
Hickey A, Javorsky G, Atherton J, Denaro C, Ingram J, Caprenter J, Munns A, Klingberg R, Matthews P, Farlow A, Driver K	Enhancing medication titration in patients with heart failure	Connecting Healthcare in Communities (CHIC). Primary Healthcare Partnerships Council.	\$313,700	2009-2011
Martin P, Noonan K, Scott A	Do anti-inflammatory agents promote linear ablation lesion breakthrough in pigs: An electrophysiological examination	RBWH Foundation 2010 Research Initiative Grant	\$20,000	2011
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

Publications

Peer-reviewed authored journal articles:

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(9814):453-60. E-pub 2011 Dec 22. IF = 33.633, RR 2/153 *Medicine, General and Internal* ISSN: 0140-6736.

Starmer G, Younger JF, Stewart P. Multimodality imaging of isolated left ventricular apical hypoplasia. *Eur Heart J* 2012 Mar;33(5):675. E-pub 2011 Sep 11. IF = 10.046. ISSN: 0195-668X.

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. E-pub 2011 Oct 11. IF = 2.117. ISSN: 2047-2404.

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. (E-pub ahead of print Nov 29) IF = 4.708, RR 18/114 *Cardiac and Cardiovascular Systems* ISSN: 1355-6037.

Atherton JJ, Hickey A, Suna J. Striving to achieve best practice in heart failure disease management. *BMJ Qual Saf* 2012;21:263 doi:10.1136/bmjqs-2011-000338 (published online Sep 2011) see <http://qualitysafety.bmj.com/cgi/content/full/bmjqs-2011-000338> IF = 2.856, RR 7/72 *Health Care Sciences and Services* ISSN:2044-5415.

Than M, Cullen L, Reid CM, Lim SH, Aldous S, Ardagh MW, Peacock WF, Parsonage WA, Ho HF, Ko HF, Kasliwal RR, Bansal M, Soerianata S, Hu D, Ding R, Hua Q, Seok-Min K, Sritara P, Sae-Lee R, Chiu TF, Tsai KC, Chu FY, Chen WK, Chang WH, Flaws DF, George PM, Richards AM. A 2-h diagnostic protocol to assess patients with chest pain symptoms in the Asia-Pacific region (ASPECT): a prospective observational validation study. *Lancet* 2011;377:1077-84. IF = 33.633, RR 2/153 *Medicine, General and Internal* ISSN: 0140-6736.

Ingles J, Yeates L, Hunt L, McGaughan J, Scuffham P, Atherton J, Semsarian C. Health status of cardiac genetic disease patients and their at-risk relatives. *Int J Cardiol* 2011 (E-pub ahead of print Sep 17) IF = 6.802, RR 6/114 *Cardiac and Cardiovascular Systems* ISSN: 0167-5273.

Publications

Poulter RS, Younger JF. Cardiac CT imaging for the diagnosis and management of thrombosis in a coronary artery aneurysm. *Heart*. 2011 Jun;97(12):1028. E-pub 2011 Apr 15. IF = 4.708, RR 18/114 *Cardiac and Cardiovascular Systems* ISSN: 1355-6037.

SB Prasad, V See, T Mackay, P Brown, P Kovoor, L Thomas. Impact of duration of ischaemia on left ventricular diastolic properties following reperfusion for acute myocardial infarction. *Am J Cardiol* 2011;108:348-54. IF = 3.681, RR 28/114 *Cardiac and Cardiovascular Systems* ISSN: 0002-9149.

Lamanna A, Atherton J. Prevention and management of heart failure. *Modern Medicine of South Africa* 2011, September 2011:13-19 (selected by Infixion Media Pty Ltd for CPD program).

Mudge AM, Denaro CP, Scott AC, Atherton J, Meyers D, Marwick T, Adsett JA, Mullins RW, Suna JM, Scuffham PA, O'Rourke P. Exercise joins education: Combined therapy to improve outcomes in newly-discharged heart failure patients (EJECTION-HF). *Eur J Heart Fail* 2011;13:1370-5. IF = 4.512, RR 19/114 *Cardiac and Cardiovascular Systems* ISSN: 1388-9842.

Hammett C, Stewart PJ, Atherton JJ. The fall and rise of drug eluting stents. Earlier concerns put to rest as new evidence confirms their safety and efficacy. *Med J Aust* 2011;195:110-11. (commissioned editorial) IF = 2.894, ERA 2010 rank A, RR 21/133 *Medicine, General and Internal* ISSN: 0025-729X.

O'Neil A, Hawkes AL, Chan B, Sanderson K, Forbes A, Hollingsworth B, Atherton J, Hare DL, Jelinek M, Eadie K, Taylor CB, Oldenburg B. A randomised, feasibility trial of a tele-health intervention for acute coronary syndrome patients with depression ('MoodCare'): study protocol. *BMC Cardiovascular Disorders* 2011;11:8 doi:10.1186/1471-2261-11-8 (accepted 25 February, 2011): 1,716 accesses as of 14/6/11- rated as "Highly accessed" relative to age. IF = 2.021, ERA 2010 rank C, RR 56/114 *Cardiac and Cardiovascular Systems* ISSN: 1471-2261.

Krum H, Jelinek MV, Stewart S, Sindone A, Atherton JJ. 2011 Update to National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand Guidelines for the prevention, detection and management of chronic heart failure in Australia, 2006. *Med J Aust* 2011;194:1-5. IF = 2.894, ERA 2010 rank A, RR 21/133 *Medicine, General and Internal* ISSN: 0025-729X.

Poulter RS, Dooris M. Localised pulmonary artery compression due to saphenous vein graft perforation during percutaneous coronary intervention. *Can J Cardiol*. 2011 doi:10.1016/j.cjca.2010.12.031 (published online 1 April 2011). IF = 4.512, RR 50/114 *Cardiac and Cardiovascular Systems* ISSN: 0828-282X

Multicentre clinical trials:

Patel MR, Mahaffey KW, Garg J, Pan G, Singer DE, Hacke W, Breithardt G, Halperin JL, Hankey GJ, Piccini JP, Becker RC, Nessel CC, Paolini JF, Berkowitz SD, Fox KA, Califf RM; ROCKET AF Investigators. Rivaroxaban versus Warfarin in Nonvalvular Atrial Fibrillation. *N Engl J Med* 2011; 365:883-91. IF = 53.48, RR 1/153 *Medicine, General and Internal* ISSN: 0028-4793.

Alexander JH, Lopes RD, James S, Kilaru R, He Y, Mohan P, Bhatt DL, Goodman S, Verheugt FW, Flather M, Huber K, Liaw D, Husted SE, Lopez-Sendon J, De Caterina R, Jansky P, Darius H, Vinereanu D, Cornel JH, Cools F, Atar D, Leiva-Pons JL, Keltai M, Ogawa H, Pais P, Parkhomenko A, Ruzyllo W, Diaz R, White H, Ruda M, Geraldes M, Lawrence J, Harrington RA, Wallentin L; APPRAISE-2 Investigators. Apixaban with Antiplatelet Therapy after Acute Coronary Syndrome. *N Engl J Med* 2011;365:699-708. IF = 53.48, RR 1/153 *Medicine, General and Internal* ISSN: 0028-4793.

Granger CB, Alexander JH, McMurray JJ, Lopes RD, Hylek EM, Hanna M, Al-Khalidi HR, Ansell J, Atar D, Avezum A, Bahit MC, Diaz R, Easton JD, Ezekowitz JA, Flaker G, Garcia D, Geraldes M, Gersh BJ, Golitsyn S, Goto S, Hermosillo AG, Hohnloser SH, Horowitz J, Mohan P, Jansky P, Lewis BS, Lopez-Sendon JL, Pais P, Parkhomenko A, Verheugt FW, Zhu J, Wallentin L; ARISTOTLE Committees and Investigators. Apixaban versus Warfarin in patients with atrial fibrillation. *N Engl J Med*. 2011;365:981-92. IF = 53.48, RR 1/153 *Medicine, General and Internal* ISSN: 0028-4793.

Yeoh T, Hayward C, Benson V, Sheu A, Richmond Z, Feneley MP, Keogh AM, Macdonald P, Fatkin D. A randomised, placebo-controlled trial of carvedilol in early familial dilated cardiomyopathy. *Heart Lung Circ*. 2011;20:566-73. IF = 1.330, ERA 2010 rank C, RR 78/114 *Cardiac and Cardiovascular Systems*.

Fatkin D, Yeoh T, Hayward CS, Benson V, Sheu A, Richmond Z, Feneley MP, Keogh AM, Macdonald PS. Evaluation of left ventricular enlargement as a marker of early disease in familial dilated cardiomyopathy. *Circ Cardiovasc Genet* 2011;4:342-8. IF = 2.224, RR 24/114 *Cardiac and Cardiovascular Systems*.

National clinical guidelines:

National Heart Foundation of Australia and the Cardiac Society of Australia and New Zealand (Chronic Heart Failure Guidelines Expert Writing Panel: Krum H, Jelinek M, Stewart S, Sindone A, Atherton J, Wilson J, Ishami V, Waddell J). Guidelines for the prevention, detection and management of chronic heart failure in Australia. Updated July 2011.

Department of 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.

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.



Dr Roger Prentice
Director, Clinical
Immunology and Allergy

Research staff

Name	Qualifications	Position	Interests/specialities
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

Publications

Brown SG, van Eeden P, Wiese MD, Mullins RJ, Solley GO, Puy R, Taylor RW, Heddle RJ. Causes of ant sting anaphylaxis in Australia: The Australian Ant Venom Allergy Study. *Med J Aust.* 2011 Jul18;195(2):69-73.

Mullins RJ, Clark S, Katelaris C, Smith V, Solley G, Camargo CA Jr. Season of birth and childhood food allergy in Australia. *Pediatr Allergy Immunol.* 2011 Sep;22(6):583-9.

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 has been 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:

- ASPIRE trial: RCT to assess the safety and efficacy of aspirin versus placebo after standard warfarin therapy for the prevention of recurrent venous thromboembolism
- EINSTEIN Study: RCT to assess the efficacy of Rivaroxaban versus Warfarin in the treatment of patients with thromboembolic disease
- A multicentre 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 a seven year period.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Paul Kubler	MBBS, FRACP	Director, Clinical Pharmacology; Staff Specialist	therapeutics, rheumatology
Dr Jennifer Martin	MBChB, MA (Oxon), FRACP, PhD	Senior Staff Specialist, Internal Medicine and Clinical Pharmacology	pharmacogenetics, quality use of medicine
Dr Peter Donovan	MBBS, FRACP	Staff Specialist	clinical pharmacology, endocrinology, general medicine
Karen Davies	BNurs, RN	Clinical Nurse Consultant, Safe Medication Practice	medication safety and 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	clinical pharmacology

Publications

Treatment for pulmonary hypertension in Australia. *IMJ* 2011;41;217-9.

Population pharmacokinetics of paracetamol in overdose in a single patient. *Toxicology*.

A new clinical protocol for the pharmacological management of acute behavioural disturbance. *Australasian Psychiatry* 2011.

Evaluation of Factor VII use for major haemorrhage at two tertiary hospitals in Australia. *Australasian Journal of Surgery*. 2011.

Department of Endocrinology

Overview

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

Clinical services provided include inpatient consultative services at RBWH, TPCH and specialised outpatient 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 two 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 two 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 joined the Department in the middle of 2010 and a major role for her is to promote research activity within the Department. There is now one doctoral student and two potential students starting next year.

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 and to collaboration with the Department of Obstetric Medicine and Neonatology. One registrar has commenced her doctoral studies in Obstetric Medicine and another will shortly will commence her doctoral studies.

Ongoing research projects include:

- Basic Science
 - i) Placental handling of thyroid hormone and iodine
- Clinical trials
 - ii) 16 studies
- Chronic funding
 - iii) Improving outcomes of patients with type two diabetes



Assoc. Prof. Michael d'Emden
Director, Endocrinology

Research staff

Name	Qualifications	Position	Interests/speciality
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 AO	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, placenta
Dr Huika Li t	MB	Scientist	thyroid hormone, iodine, placenta
Dr Kelly Landers	PhD	Research Assistant	thyroid hormone, iodine, placenta

Research staff

Name	Qualifications	Position	Interests/speciality
Erika Tapp	BHlthSc	Research Assistant	clinical trials
Helen Legg c	BNurs	Research Assistant	clinical trials
Liz Lahz	BNurs	Research Assistant	clinical trials
Janelle McFarlane		Trials Coordinator	bone metabolism studies
Alison Barry	BA, BNurs, RM, MPH, CDEProject Officer		chronic disease projects
Sharon Chambers	RN	Project Officer	chronic disease projects

Achievements and awards

Award	Event	Recipient
Queensland Smart State Grant for Regulation of transplacental transfer of thyroid hormones and iodide	NA	Richard K, Li H, Mortimer H

Publications

Lingwood BE, Henry AM, d'Emden MC, Fullerton AM, Mortimer RH, Colditz PB, Le Cao KA, Callaway LK. Determinants of body fat in infants of women with gestational diabetes mellitus differ with fetal sex. *Diabetes Care*. 2011;34(12):2581-5.

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Duncan EL et al. Genome-wide association study using extreme truncate selection identifies novel genes controlling bone mineral density and fracture risk. *PLoS Genetics*. 2011;7(4) e1001372-1-e1001372-10.

Publications

Glazov EA, Zankl A, Donskoi M, Kenna TJ, Thomas GP, Clark GR, Duncan EL, Brown MA. Whole-exome re-sequencing in a family quartet identifies POP1 mutations as the cause of a novel bone dysplasia PLoS Genetics. 2011;7(3) e1002027-1 - e1002027-7.

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Department of Gastroenterology and Hepatology



Prof. Barbara Leggett

Director, Gastroenterology
and Hepatology

Overview

Research in the Conjoint Gastroenterology Laboratory headed by Professor Barbara Leggett is focussed on understanding the molecular events underlying the development of bowel polyps and cancers. 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.

Current research projects include:

- The CpG island methylator phenotype in colorectal cancers and polyps
- Identification of molecular features of high risk colorectal polyps
- Tubulovillous adenomas in colorectal cancer
- Oncogenic BRAF and the serrated pathway to colorectal cancer
- Generation of a BRAF mutant mouse model.

Associate Professor David Hewett is working on strategies to improve the quality of colonoscopy with a particular focus on maximising polyp detection to reduce the risk of cancers occurring between surveillance colonoscopy. He also has research interests in health care communication.

Dr John Croese has recently joined the Department and has a long standing interest in understanding the immune reaction of the gut to parasitic infections and how this may be used to advantage to treat diseases such as celiac disease. 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.

Research in the Inflammatory bowel disease Laboratory headed by Dr Graham Radford-Smith continues to investigate the genetic and environmental contributions to the development of Crohn's disease and ulcerative colitis. The linked Clinical IBD research programme continues to shape thinking around the definitions of these diseases and the optimisation of treatments. Both of these programmes have been used as a springboard in the development of the ANZ IBD Consortium, now made up of 14 centres, and recently attracting a major project grant from the NHMRC to study refractory ulcerative colitis. 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 both Crohn's disease and ulcerative colitis.

Current research projects include:

- Genomic medicine: Predictors of refractory ulcerative colitis and response to treatment
- Identification of causal variants associated with colorectal cancer complicating colonic inflammatory bowel disease using exome sequencing technology and extreme phenotype study design
- Phase I study to determine the safety and tolerability of losartan in patients with ileal Crohn's disease
- Relationship between genotype and phenotype - including age of onset, disease location, severity of disease, extra-intestinal symptoms, medical management and smoking status
- Adalimumab therapy for perineal Crohns fistulas (the APEC study): A randomised placebo-controlled trial incorporating MRI to monitor deep tissue healing.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Mark Appleyard	MD, FRACP	Director, Gastroenterology and Hepatology	small bowel endoscopy
Dr Graham Radford-Smith	DPhil, FRACP, FRCP	Senior Staff Specialist; Head, IBD and TPN Programmes	inflammatory bowel disease, health services research
Prof. Barbara Leggett	MD, FRACP	Senior Staff Specialist; Head, Conjoint Gastroenterology Laboratory	colorectal cancer, clinical hepatology
Dr Vicki Whitehall	PhD	Senior Scientist	colorectal cancer
Ron Buttenshaw	CertChem	Senior Technician	colorectal cancer

Research staff

Name	Qualifications	Position	Interests/specialities
Troy Dumenil	MAppSci	Research Assistant	colorectal cancer
Diane McKeone	Diploma Laboratory Techniques	Research Assistant	colorectal cancer
Sonia Greco	BSc (Hons)	Research Assistant	colorectal cancer
Catherine Bond	MSc	PhD student	colorectal cancer
Dr Mark Bettington	BSc, MBBS, FRCPA	PhD student	colorectal cancer
Dr Nicholas Tutticci	BSc, MBBS, FRACP	MPhil student	colorectal cancer
Assoc. Prof. David Hewett	MBBS, MSc, PhD, FRACP	Staff Specialist; Head, Phase 2, UQ Medical School	colorectal cancer, colonoscopy, health services improvement
Deborah D'Arcy	BNurs	Clinical Nurse Consultant	clinical hepatology
Rita Marangone	BNurs	Clinical Nurse	clinical hepatology
Dr Catherine Cayser	MBBS, FRACP, PhD	Visiting Medical Officer	clinical hepatology
Dr Mariko Howlett	MBBS, FRACP	Staff Specialist	inflammatory bowel diseases (clinical)
Lisa Simms	BSc (Hons)	Senior Scientist	inflammatory bowel diseases (QIMR)
Dr Georgia Hume	MBBS (Hons), FRACP	Staff Specialist, PhD student	inflammatory bowel diseases (Clinical and QIMR)
Dr Anthony Croft	BSc (Hons), MBBS	Research Assistant	inflammatory bowel diseases (clinical)
Katherine Hanigan	BSc (Public Health)	Senior Research Assistant	inflammatory bowel diseases (QIMR)
Gabrielle Dwyer	BHealthSc (Public Health)	Research Assistant	inflammatory bowel diseases (clinical)
Ning Huang	MAppSci	Research Assistant	inflammatory bowel diseases (QIMR)
Angela Lin	BMedSci	Research Assistant	inflammatory bowel diseases (clinical)
Natalie Gerns	BNurs	Clinical Nurse	inflammatory bowel diseases (clinical)
Chantal Tabrett	BNurs	Clinical Nurse	inflammatory bowel diseases (clinical)
Anna Zournazi	BSc, MSc, CN, BNurs	Research Coordinator	inflammatory bowel diseases (QIMR)
Dr Felicity Hartnell	BSc (Hons), MBBS	Research Assistant	inflammatory bowel diseases (clinical)

Supervised postgraduate 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

Supervised postgraduate students

Name	Current studies	Research topic
Chapman-Kiddell C	MPhil	The role of diet in inflammatory bowel disease
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

Awards and achievements

Award	Event	Recipient
Distinguished Research Award	Australian Gastroenterology Week	Leggett B
Queensland Health Service Award	RBWH Staff Recognition Ceremony	Radford-Smith G

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Whitehall V, Leggett B	Tubulovillous adenomas in colorectal tumorigenesis	NHMRC Project Grant 552473	\$284,250	2009-2012
Radford-Smith G, Montgomery G, Lawrance I	Genomic medicine: Predictors of refractory ulcerative colitis and response to treatment	NHMRC Project Grant	\$849,261	2012-2014
Leggett B, Whitehall V	Molecular changes underlying the initiation and progression of bowel polyps	RBWH Foundation	\$40,000	2011
Radford-Smith G	Phase I study to determine the safety and tolerability of losartan in patients with ileal Crohn's disease	RBWH Foundation	\$40,000	2011

Publications

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Whitehall V, Leggett B. Microsatellite instability: Detection and management in sporadic colorectal cancer. *Journal of Gastroenterology and Hepatology*. 2011;26:1697-1699.

Ishii T, Notohara K, Umaphy A, Mallitt KA, Chikuba H, Moritani Y, Tanaka N, Rosty C, Matsubara N, Jass J, Leggett B, Whitehall V. Tubular adenomas with minor villous changes show molecular features characteristic of tubulovillous adenomas. *Am J Surg Pathol*. 2011;35:212-220.

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- McSorley HJ, Gaze S, Daveson J, Jones D, Anderson RP, Clouston A, Ruysers NE, Speare R, McCarthy JS, Engwerda CR, Croese J, Loukas A. Suppression of inflammatory immune responses in celiac disease by experimental hookworm infection. *PLoS One*. 2011;6:e24092.
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- Hewett DG, Rex DK. Miss rate of right colon examination during colonoscopy defined by retroflexion: An observational study. *Gastrointest Endosc* 2011;74(2):246-52.
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Genetic Health Queensland



Assoc. Prof. Julie McGaughran

Director, Genetic Health Queensland

Overview

Genetic Health Queensland (GHQ) is the statewide super specialty service which provides clinical genetics services for the state of 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 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 at RBWH, the Royal Children's Hospital (RCH) and 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. There are biannual in services which regional staff also attend.

Research interests include dysmorphology, bone dysplasias, neurogenetics, prenatal genetics, cardiac genetics and cancer genetics. Director of Genetic Health Queensland, Associate Professor Julie McGaughran is also supervising two PhD students and an MPhil candidate.

Given the rarity of some 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/specialities
Assoc. Prof. Julie McGaughran	BSc (Hons), MBChB (Hons), MD, FRCP, FRACP, AFRACMA, MAICD	Director, Genetic Health Queensland	cardiac genetics, dysmorphology
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
Tracey Scuffham	BSc, MSc (Hons)	Assoc. Genetic Counsellor	neurogenetics

Supervised postgraduate students

Name	Current studies	Research topic
Tan Y	PhD	eMBRACE study
Gabbett M	MPhil	Characterisation of the oculoauriculovertebral spectrum
Noon L	PhD	Focus study

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Scuffham T, MacMillan J	Motivations, descriptive epidemiology and outcomes of patients seeking genetic testing for Huntington disease	RBWH Foundation	\$20,000	2011
Zankl A	Skeletome	RBWH Private Practice Trust Fund	\$75,000	2010-2012

Publications

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Infectious Diseases Unit



Assoc. Prof. Tony Allworth
Director, Infectious Diseases

Overview

The Infectious Diseases Unit is a broad-based, multidisciplinary unit providing a range of services both across 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 focussed 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 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 outpatient therapy and the placement of peripherally inserted central catheters (PICCs). The Infection Monitoring and Prevention Service 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, The University of Queensland, particularly through the Centre for Clinical Research and the Australian Infectious Diseases Research Centre.

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Tony Allworth	MBBS (Hons1), FRACP, FRCPA, FACTM, MASM	Director, Infectious Diseases; Visiting Scientist, UQCCR	HIV/AIDS, antibiotic resistance, influenza, therapeutic trials
Assoc. Prof. James McCarthy	MD, FRACP, DH&TM	Consultant Physician, Infectious Diseases Unit; Visiting Scientist, QIMR, Infectious Diseases	parasitology, malaria, vaccine trials
Prof. David Paterson	MBBS, FRACP, FRCPA	Consultant Physician, Infectious Diseases Unit; Microbiologist, Pathology Queensland; Prof. Infectious Diseases, UQ; Medical Advisor, CHRISP	antimicrobial resistance, infections in ICU
Assoc. Prof. Marion Woods	MD, MPH, FRACP, FACP, FAFPHM	Consultant Physician, Infectious Diseases Unit; Visiting Scientist, QIMR, Infectious Diseases	clinical epidemiology, HIV, disease pathogenesis
Dr Alex Chaudhuri	BSc (Hons), MBBS	Registrar, Infectious Diseases	
Dr Hugh Wright	BSc, BVMS, PhD, MBBS	Registrar, Infectious Diseases	
Janelle Zillmann	Registered Nurse	HIV Coordinator, Infectious Diseases	
Geoff McQueen	BNurs	Nurse Unit Manager, Wattlebrae	
Michelle Doidge	BNurs	Clinical Nurse Consultant, Infection Control	
Michael Terry	BNurs	Clinical Nurse Consultant, Infection Control	

Supervised postgraduate 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
Murray H	BSc (Hons)	Immunohistochemistry of scabies
Kearns T	PhD	Community control of parasites in indigenous communities
Patel B	MPhil	Challenges in management of infections on a burn injury unit
Wailan A	PhD	Genome and plasmid characteristics of NDM-1 and OXA181 producing enterobacteriaceae
Kamolvit 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)
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

Achievements and awards

Award	Event	Recipient
BMA Medical Book Award	Awarded BMA Medical Book Awards Highly Commended for chapter in Kucers' The Use of Antibiotics 6E entitled Pharmacology	Infectious Disease Unit

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
McCarthy J	Health Research Fellowship	Queensland Government	\$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 DL	Centre for Research Excellence in reducing healthcare associated infection	NHMRC Centre for Research Excellence Grant Application	\$2,495,795	2011-2016

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Cooper M, Paterson DL, Roberts J	Membrane-targeted antibiotic for complicated skin and skin structure (cSSSI) infections caused by MRSA, VISA, and VRE (methicillin and Vancomycin-resistant <i>S. aureus</i> and enterococci)	Wellcome Trust Grant	\$5,046,982	2011-2013
Clements A, Paterson DL	<i>Clostridium difficile</i> : Assessing the risks to Australia of an emerging healthcare-related pathogen	NHMRC Project Grant Application	\$936,321	2011-2013
Cooper M, Paterson DL	Development of novel hybrid antibiotics for the treatment of hospital and community acquired drug resistant gram-negative and gram-positive bacterial infections	National Health and Medical Research Council NHMRC	\$689,946	2011-2013

Publications

Baba H, Nimmo GR, Allworth AM, Boots RJ, Hayashi Y, Lipman J, Paterson DL. The role of surveillance cultures in the prediction of susceptibility patterns of Gram-negative bacilli in the intensive care unit. *Eur J Clin Microbiol Infect Dis*. 2011 Jan 11.

McLeod DS, Mortimer RH, Perry-Keene DA, Allworth A, Woods ML, Perry-Keene J, McBride WJ, Coulter C, Robson JM. Histoplasmosis in Australia: Report of 16 cases and literature review. *Medicine (Baltimore)*. 2011 Jan;90(1):61-8.

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Butterworth AS, Robertson AJ, Ho MF, Gatton ML, McCarthy JS and Trenholme KR. An improved method for undertaking limiting dilution assays for in vitro cloning of *Plasmodium falciparum* parasites. *Malaria Journal*. 2011;10:95.

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Baker J, Gatton ML, Peters J, Ho MF, McCarthy JS and Cheng Q. Transcription and expression of *plasmodium falciparum* histidine-rich proteins in different stages and strains: Implications for the performance of rapid diagnostic tests. *PLoS ONE*. 2011;6(7):e22593.

McSorley HJ, Gaze S, Daveson J, Jones D, Anderson RP, Clouston A, Ruysers NE, Speare R, McCarthy JS, Engwerda CR, Croese J, and Loukas A. Suppression of inflammatory immune responses in celiac disease by experimental hookworm infection. *PLoS ONE*. *PLoS One*. 2011;6(9):e24092.

Britton S, van den Hurk AF, Simmons RJ, Pyke AT, Northill JA, McCarthy JS, McCormack J Laboratory-acquired Dengue virus infection: A case report. *PLoS Negl Trop Dis*. 2011 Nov;5(11)e1324.

McCarthy JS, Marjason J, Elliott S, Fahey P, Bang G, Malkin E, Tierney E, Aked-Hurditch H, Adda C, Cross N, Richards JS, Fowkes FJ, Boyle MJ, Long C, Druilhe P, Beeson JG, Anders RF. A phase 1 trial of MSP2-C1, a blood-stage malaria vaccine containing 2 isoforms of MSP2 formulated with Montanide® ISA 720. *PLoS ONE* *PLoS One*. 2011;6(9):e24413.

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- Luchavez J, Baker J, Alcantara S, Belizario V, Cheng Q, McCarthy JS, Bell D. Laboratory demonstration of a prozone-like effect in HRP2-detecting malaria rapid diagnostic tests: Implications for clinical management. *Malaria Journal*. 2011;10:286.
- Chen K, McAleer JP, Lin Y, Paterson DL, Zheng M, Alcorn JF, Weaver CT, Kolls JK. Th17 cells mediate clade-specific, serotype-independent mucosal immunity. *Immunity*. 2011;35(6):997-1009.
- van Hal SJ, Jones M, Paterson DL, Gosbell IB. Doubtful model utility in predicting high vancomycin minimum inhibitory concentration methicillin-resistant staphylococcus aureus bloodstream infection episodes. *Clin Infect Dis*. 2011 Dec;53(11):1166-7; author's reply 1167-8.
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Williams JM, Greenslade JH, McKenzie JV, Chu KH, Brown AF, Paterson D, Lipman J. A prospective registry of emergency department patients admitted with infection. *BMC Infect Dis*. 2011 Jan 26;11:27.

Rogers BA, Sidjabat HE, Paterson DL. *Escherichia coli* O25b-ST131: A pandemic, multiresistant, community-associated strain. *J Antimicrob Chemother*. 2011 Jan; 66(1):1-14. E-pub 2010 Nov 16.

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Department of Internal Medicine and Aged Care

Overview

The Department of Internal Medicine and Aged Care (IMAC) consists of five acute internal medicine units, a multidisciplinary heart failure service (jointly managed with the Department of Cardiology), a day treatment unit, an extended care unit, a geriatric assessment and rehabilitation unit, a rehabilitation day hospital, a statewide Fabry Disease treatment service, a clinical audit unit and aged care assessment team (ACAT).

The Department provides consultant-led, 24-hour emergency medical cover for the hospital, every day of the year. Inpatient services include acute, subacute and rehabilitation care for more than 6,000 patients per year and the Department offers comprehensive consultation services to the rest of the hospital and beyond. This includes a acute medical and perioperative consultation service, a geriatric medicine and rehabilitation liaison service for all subacute restorative care, a rural stroke outreach service, and an active obstetric medicine service, including a Obstetric Medicine Telehealth Service for rural and regional Queensland. Outpatient services include approximately 20 general medical clinics per week, a number of weekly obstetric medicine clinics, a geriatric assessment clinic and specialist memory clinic.

The Internal Medicine Research Unit's (IMRU) main focus is health systems research, obstetric medicine and therapeutics. 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. The Unit has a major role in quality improvement projects in the clinical service. It has been successful in attaining NHMRC project grants.

The Team Research in Internal Medicine (TRIM) multidisciplinary research group provides an opportunity to investigate clinical issues which involve or affect more than one professional discipline. Major research areas include aged and chronic disease management.

The Obstetric Medicine Unit at RBWH is active in clinical and basic science research across all medical problems which occur throughout pregnancy. There are a number of PhD candidates. The Unit has been successful in numerous research grant/funding.



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

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Charles Denaro	FRACP, MD	Director, Internal Medicine and Aged Care	therapeutics, cardiovascular medicine, health services
Dr Alison Mudge	FRACP, PhD	Clinical Director, Research and Education	health services, geriatrics
Assoc. Prof. Leonie Callaway	FRACP, PhD	Head, Royal Brisbane Clinical School; Staff Specialist	obstetric medicine, obesity
Assoc. Prof. Cameron Bennett	FRACP, MBIomedE	Executive Director, Subacute Services; Staff Specialist	clinical trials
Dr Karin Lust	FRACP	Clinical Director, Obstetric Medicine	obstetric medicine
Dr Narelle Fagermo	FRACP	Staff Specialist	obstetric medicine, telehealth
Dr Paul Kubler	FRACP	Director, Clinical Pharmacology	therapeutics, rheumatology
Dr Helen Barrett	FRACP	Obstetric Medicine Fellow	obstetric medicine, endocrinology
Dr Penny Wolski	MBBS, FRACP	Staff Specialist	obstetric medicine, endocrinology
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, RM, GradDip (Community Health)	Research Nurse	clinical trials
Katie Foxcroft	RN, RM, MAppSc (Research)	Coordinator, Nurse Research	obstetric medicine, clinical trials

Research staff

Name	Qualifications	Position	Interests/specialities
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	BPhy	Research Assistant	clinical trials
Dr Marloes Dekker-Nitert	PhD	Senior Post-Doctoral Fellow, UQCCR	obstetric medicine
Glenys Smith		Administration Officer	

Supervised postgraduate students

Name	Current studies	Research topic
Young A	PhD	Preventing nutritional decline in older adults
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	Exercise-induced pulmonary artery hypertension in pregnant women with underlying medical conditions in pregnancy – E-PUMP study
Kilgour K	PhD	Electronic record keeping in pregnancy
Suna J	MHealthSci	The effect of exercise on sleep quality in heart failure patients
McRae P	M Phil	Identifying interdisciplinary care needs in older surgical patients

Achievements and awards

Award	Event	Recipient
Graz Clock Award, Best Scientific Presentation	Australasian Diabetes in Pregnancy Society	Callaway L
Best Poster Award	Society of Obstetric Medicine of Australia and NZ	Callaway L
Andrew Phippard Prize for Best Scientific Presentation	Society of Obstetric Medicine of Australia and NZ	Callaway L
RACP Queensland Advanced Trainee Award	RACP Queensland statewide meeting	Manji A
Best Poster Award	Society of Obstetric Medicine of Australia and NZ	Foxcroft K

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Mudge A, Denaro C, Scott A, Javorsky G	Exercise in heart failure: Does it add to disease management?	NHMRC project grant	\$698,950	2008-2011
Taylor SM, Woodruff TM, Callaway LK, Finnell RH	Complement C5a receptors, placental inflammation and reproductive impairment	NHMRC Project grant	\$967,750	2009-2013
Callaway L	Postdoctoral Fellowship	RBWH Foundation	\$150,000	2009-2011
Mudge A	THRIVE: Targeting hospitalisation risk in vulnerable elders: A pilot study	RACP Postdoctoral Fellowship	\$60,000	2011
Barrett H	Medical and Dental Research Scholarship	NHMRC	\$96,000	2011-2014
McRae P, Mudge A, Walker P, Duglison N, Gardiner R, Cruickshank M et al	Identifying Interdisciplinary needs in older surgical inpatients	RBWH Foundation	\$30,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Adsett J, Hwang R, Mullins R, Kuys S, Mandruziak A, Paratz J, Mudge A	Aquatic versus land based exercise for patients with chronic heart failure	Health Practitioner Research Scheme Grant	\$24 478	2011-2012
Cruikshank M, Mudge A, McRae P	Multiprofessional allied health assistant in the Eat Walk Engage (EWE) Program	Queensland Health	\$58,000	2011-2012
Ross L, Banks M, Mudge A, Young A, Isenring E	Managing malnutrition	Queensland Health	\$134,000	2011-2013
Callaway L, Humphrey M	Prospective study of validity of an obstetric risk score revision	Queensland Health	\$100,000	2011
Callaway L	Exercise as a prescription: Can we prevent adverse outcomes for at-risk mothers and babies	RBWH Foundation	\$150,000	2010-2011
De Jersey, Daniels S, Callaway L, Nicholson J, Ross L	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy	The University of Queensland	\$28,000	2011
Barrett H	Cardiovascular Research Grant	Pfizer Australia Cardiovascular Research Grant	\$39,000	2011

Publications

- Mudge AM, Denaro C, Scott A et al. Exercise training in recently hospitalised heart failure patients enrolled in a disease management program: Design of the EJECTION-HF randomised controlled trial. *Eur J Heart Fail.* 2011 13;(12):1370-75.
- Mudge AM, Ross L, Young A, Isenring E, Banks M. Helping understand nutritional gaps in the elderly (HUNGER): A prospective study of patient factors associated with inadequate nutritional intake in older medical inpatients. *Clinical Nutrition.* 2011 June; 30(3):320-25 (IF 3.3).
- Webster J, Coleman K, Mudge A, Marquart L, Garner G, Stankiewicz M, Kirby J, Vellacott C, Hortion-Beshers M, McClymont A. Pressure ulcer: Effectiveness of risk assessment tools. A randomised controlled trial (the ULCER trial). *BMJ Quality and Safety.* 2011 Apr;4(20): 297-306 e-pub Jan 24 2011 (IF 2.8).
- Ross L, Young A, Banks M, Mudge A. Everyone's problem but nobody's job: Staff perceptions and explanations for poor nutritional intake in older medical patients. *Nutrition and Dietetics* 2011 68(1):46-48 (IF 0.8).
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- Mudge A, Kasper K, Clair A, Redfern H, Bell J, Barras M, Pachana N. Recurrent readmissions in medical patients: a prospective study. *J Hosp Med.* 2011; 6(2):61-67 (IF 1.5).
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- Byrne NM, Groves AM, McIntyre HD, Callaway LK. Changes in resting and walking energy expenditure and walking speed during pregnancy in obese women. *Am J Clin Nutr.* 2011;94(3):819-30.
- Callaway LK, David MH, Williams GM, Najman JM, Lawlor DA, Mamun A. Diagnosis and treatment of hypertension 21 years after a hypertensive disorder of pregnancy. *Aust N Z J Obstet Gynaecol.* 2011 Oct;51(5):437-40.
- Callaway LK (created in conjunction with McAllister L, Atkin J). Online education modules for clinical teaching, enhancing the skills of clinicians in their interactions with students through the course of clinical placements. June 2011.
- Dekker Nitert M, Foxcroft KF, Lust K, Fagermo N, Lawlor DA, O'Callaghan M, McIntyre HD, Callaway LK. Overweight and obesity knowledge prior to pregnancy: A survey study. *BMC Pregnancy Childbirth.* 2011;21;11(1):96.
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- Foxcroft KF, Rowlands IJ, Byrne NM, McIntyre HD, Callaway LK, the BAMBINO group.. Exercise in obese pregnant women: the role of social factors, lifestyle and pregnancy symptoms. *BMC Pregnancy Childbirth.* 2011;11:4.

Department of Neurology



Dr Robert Henderson
Director, Neurology

Overview

The Department of Neurology has had a productive year in 2011, continuing to focus on clinical neurology research within RBWH. The research builds from clinical excellence in the areas of stroke, neuromuscular and movement disorders, multiple sclerosis and epilepsy. The group focuses on collaborations with research centres. Some achievements for the group have been:

- The Motor Neurone Disease joined the EMPOWER international trial studying the safety and efficacy of dexamipexole in patients with MND
- Dr Nadeeka Dissanayaka from the Movement Disorders group was awarded a RBWH Foundation Postdoctoral Fellowship to continue her research into understanding anxiety in Parkinson's disease
- The Stroke group joined the START-EXTEND international trial which extends the time window for thrombolysis using advanced imaging to select patients
- Four postgraduate research students completed their degrees with supervision from members of the Neurology Research Centre.

The linkage with other departments and RBWH Foundation has grown through 2011 and there are high hopes for quality research production in 2012.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Robert Henderson	MBBS, FRACP, PhD	Director, Neurology	neuromuscular, stroke, autonomic
Prof. Pamela McCombe	MBBS, FRACP, PhD	Visiting Medical Officer	immune neurological disorders
Dr Stefan Blum	MD, FRACP	Research Fellow	neuromuscular
Dr Fusun Baumann	MD	Research Fellow	neuromuscular
Assoc. Prof. Stephen Rose	PhD	Honorary Research Scientist	neuromuscular
Nicole Hutchinson	BN	Clinical Nurse Consultant	neuromuscular
Jacqueline Cameron	BN	A/Clinical Nurse Consultant	neuromuscular
Helen Woodhouse	BN	Research Nurse	neuromuscular
Susan Heggie	RN	Research Nurse	neuromuscular
Matthew Devine		Research Assistant	neuromuscular
Prof. David Reutens	MBBS, FRACP, MD, PhD	Foundation Prof. Experimental Neurolog; Director, Centre of Advanced Imaging, UQ	epilepsy
Emeritus Prof. Mervyn Eadie	MD, PhD	Senior Neurologist	epilepsy
Assoc. Prof. Lata Vadlamudi	MBBS, FRACP, PhD	Staff Neurologist	epilepsy
Assoc. Prof. Cecile Lander	MBBS, FRACP	Visiting Medical Officer	epilepsy
Dr Alice-Ann Sullivan	MBBS, FRACP	Staff Neurologist	epilepsy
Dr Swapna Sebastian	MBBS, MRCP (UK), MD	Research Fellow	epilepsy
Dr Julie Hocking	PhD, BPsych, MCogSci	Research Scientist	epilepsy
Rebecca Williams	BPsych, GDipMagResTech	Research Student	epilepsy
Fred Tremayne	BScAppBiol (Hons), BSc Clinical Psychology (Neurophysiology) (Hons), PostGradCert Peripheral Neurophysiology	Senior Neurophysiology Technician	epilepsy
Jodi Frankland	BN	Epilepsy Nurse/Epilepsy Action	epilepsy
Dr Andrew Wong	MBBS, FRACP, PhD	Director, Stroke Services	stroke
Dr Stephen Read	MBBS, FRACP, PhD	Visiting Medical Officer (Stroke Research)	stroke

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Nabeel Sheikh	MBBS	Research Fellow	stroke
Tennille Rowland	BOccThy, MPhil, GradCertOccThy (Stroke)	Occupational Therapist	stroke
Renee Hull	BN	Stroke Research Coordinator	stroke
Genevieve Skinner	RN	Stroke/Neurology Research Clinical Nurse	stroke
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 Andre Troiano	MD	Research Fellow	movement disorders
Amy Jones	BN	Movement Disorders Nurse Specialist	movement disorders
Prof. Peter Silburn	MBBS, PhD, FRACP	Visiting Medical Officer	movement disorders
Assoc. Prof. George Mellick	PhD	Research Scientist	movement disorders

Postgraduate students

Name	Current studies	Research topic
Blum S	PhD	neuromuscular
Baumann S	PhD	neuromuscular
Kharatishvili I	Post-Doctoral Fellow	neuromuscular
Moldrich R	Post-Doctoral Fellow	neuromuscular
Shan Z	Post-Doctoral Fellow	neuromuscular
Ullmann J	Post-Doctoral Fellow	neuromuscular
Vegh V	Post-Doctoral Fellow	neuromuscular
Vogel M	Post-Doctoral Fellow	neuromuscular
Yang S	Post-Doctoral Fellow	neuromuscular
Du J	PhD	epilepsy

Name	Current studies	Research topic
Faizo N	PhD	epilepsy
Williams R	PhD	epilepsy
Sepehrband F	PhD	epilepsy
Chupan J	PhD	epilepsy
Brown H	M Phil	stroke
Eames S	PhD	stroke
Barwood C	PhD	stroke
Sheikh N	PhD	stroke
Nguyen G	PhD	stroke
Roxbury T	PhD	Stroke

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Reutens DC, Mackay-Sim A, Bartlett PF, Paxinos G, Halliday GM, Watson CR	Facilities for automated high-throughput slide scanned and stereology	Australian Research Council (ARC)	\$520,000	2010-2011
Brown MA, Xu H, Bartlett PF, Wallace RH, Visscher PM, Mowry BJ, Reutens DC	Sino-Australian neurogenetics initiative	Australian Research Council (ARC)	\$690,000	2011-2014
Ullman J, Yang SU, Kurniawan N, Janke A, Wullmann DC, Reutens DC	A population based atlas of the zebrafish brain for quantitative phenotypic comparisons of disease models	NIH	\$120,000	2012-2014
Reutens DC	Fellowship	NHMRC	\$504,875	2010-2014

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Berkovic SF, Jackson GD, Gecz J, Connelly A, Scheffer IE, Reutens DC, Petrou S, Dibbens L, Calamante F, Thomas P	Neurobiology of human epilepsy: Genes, cellular mechanisms, networks and whole brain	NHMRC	\$16,450,000	2011-2015
Reutens DC	Infrastructure Funding: EIF Round 3	National Imaging Facility	\$40,231,000	no date
Read SJ, Copland D et al.	Imaging predictors of aphasia recovery in stroke patients	RBWH Foundation	\$20,000	2010-2011
McMahon K, Copland D, Read S	Predicting recovery of language and communication after stroke using neuroimaging	Wesley Research Institute	\$85,000	2010-2012
Dissananyaka N	Understanding anxiety in Parkinson's disease	RBWH Foundation	\$180,000	2010-2012
Dissananyaka N, O'Sullivan J, Silburn P, Byrne G, Copland D, Mellick G, Marsh R	Improving diagnostic methods of anxiety disorders in Parkinson's disease: Phase 1	RBWH Foundation	\$30,000	2011
Dissananyaka N, Silburn P, Byrne G, O'Sullivan J, Copland D, Mellick G, Marsh R	Novel methods for early detection in anxiety in Parkinson's disease	Parkinson's Queensland Inc (PQI) Seeding Grant Scheme	\$25,000	2011
O'Sullivan J	Therapeutic targeting of complement C5a receptors in Huntington's disease	NHMRC	\$452,318.50	2011-2013

Publications

- Adamson CL, Wood AG, Chen J, Barton S, Reutens DC, Pantelis C, Velakoulis D, Walterfang M. Thickness profile generation for the corpus callosum using Laplace's equation. *Hum Brain Mapp.* 2011;32(12):2131-40.
- Badve M, Jhamb A, Read S, Henderson R. Hippocampal infarcts in transient global amnesia. *J Clin Neurosci.* 2011;18:449.
- Barwood CH, Murdoch BE, Whelan BM, Lloyd D, Riek S, O'Sullivan JD, Coulthard A, Wong A. Modulation of N400 in chronic non-fluent aphasia using low frequency Repetitive Transcranial Magnetic Stimulation (rTMS). *Brain Lang.* 2011;116:125- 135.
- Barwood CH, Murdoch BE, Whelan BM, Lloyd D, Riek S, O'Sullivan JD, Coulthard A, Wong A. Improved language performance subsequent to low-frequency rTMS in patients with chronic non-fluent aphasia post-stroke. *Eur J Neurology.* 2011;18:935-943.
- Barwood CH, Murdoch BE, Whelan BM, Lloyd D, Riek S, O'Sullivan JD, Coulthard A, Wong A, Hall G, Aitken P. The immediate effects of low frequency Repetitive Transcranial Magnetic Stimulation (rTMS) and 'sham' condition rTMS on behavioural language in chronic non-fluent aphasia. *Neurorehabilitation* 2011;28:113-128.
- Baumann, F, Henderson, RD, Ridall, PG, Pettitt, AN, McCombe PA. Quantitative studies of lower motor neuron degeneration in amyotrophic lateral sclerosis: Evidence for exponential decay of motor unit numbers and greatest rate of loss at the site of onset.
- Blum S, Gillis D, Brown H, Boyle R, Henderson RD, Heyworth-Smith D, Hogan P, Kubler P, Lander C, Limberg N, Pillans P, Prain K, Staples C, Walsh M, McCombe P, Wong R. Use and monitoring of low dose Rituximab in myasthenia gravis. *Journal of Neurology, Neurosurgery and Psychiatry.* 2011;82(6):659-63.
- Eadie MJ. William Gowers' interpretation of epileptogenic mechanisms – 1880 to 1906. *Epilepsia.* 2011;52:1045-1051.
- Eames S, Hoffmann T, Worrall L, Read S. Stroke patients' awareness of risk and readiness to change related behaviours. *Topics in Stroke Rehabilitation.* 2011;18:481-489.
- Eames S, Hoffmann T, Worrall L, Read S. Delivery styles and formats for different stroke information topics: Patient and carer preferences. *Patient Education and Counselling.* 2011;84:e18-e24 (doi:10.1016/j.pec.2010.07.007)
- Hollingworth SA, Rush A, Hall WD, Eadie MJ. Utilisation of anti-Parkinson drugs in Australia: 1995 to 2009. *Pharmacoepidemiology and Drug Safety.* 2011;20:450-456.
- Klein CJ, Botuyan MV, Wu Y, Ward CJ, Nicholson GA, Hammans S, Hojo K, Yamanishi H, Karpf AR, Wallace DC, Simon M, Lander C, Boardman LA, Cunningham JM, Smith GE, Litchy WJ, Boes B, Atkinson EJ, Middha S, Parisi JE, Mer G, Smith DI, DYCK PJ. Mutations in DNMT 1 cause hereditary sensory neuropathy with dementia and hearing loss. *Nat Genet.* 2011;43(6):595-600.
- McCombe PA, Henderson RD. The role of immune and inflammatory mechanisms in ALS. *Curr Mol Med.* 2011;11(3):246-54.

Publications

- Nadebaum C, Anderson VA, Vajda F, Reutens DC, Barton S, Wood AG. Language skills of school-aged children prenatally exposed to antiepileptic drugs. *Neurology* 2011;76(8):719-26.
- Nadebaum C, Anderson V, Vajda F, Reutens DC, Barton S, Wood A. The Australian brain and cognition and antiepileptic drugs study: IQ in school-aged children exposed to sodium valproate and polytherapy. *J Int Neuropsychol Soc.* 2011;17(1):133-42.
- Ngo St, Baumann F, Ridall PG, Pettitt AN, Henderson RD, Bellingham MC, McCombe PA. The relationship between Bayesian motor unit number estimation and histological measurements of motor neurons in wild-type and SOD1^{G93A} mice.
- Pandian J, Dalton K, Scott J, Read SJ, Henderson RD. Cardiovascular autonomic dysfunction in acute stroke. *Int J Stroke.* 2011;6:176-177.
- Plummer C, Henderson RD, O'Sullivan JD, Read SJ. Ischemic stroke and transient ischemic attack following head and neck radiotherapy: A review. *Stroke.* 2011; 42:2410-2418.
- Rowland T, Gustafsson L, Turpin M, Henderson R, Read S. Chedoke Arm and Hand Activity Inventory-9 (CAHAI-9): A multicentre investigation of clinical utility. *International J Therapy Rehab.* 2011;18:588-595.
- Rowland T, Turpin M, Gustafsson L, Henderson R, Read S. Chedoke Arm and Hand Activity Inventory-9 (CAHAI-9): Perceived clinical utility within 14 days of stroke. *Topics in Stroke Rehabilitation.* 2011;18:382-393.
- Richards K, Watson C, Buckley RF, Kurniawan ND, Yang Z, Keller MD, Beare R, Bartlett PF, Egan GF, Galloway GJ, Paxinos G, Petrou S, Reutens DC. Segmentation of the mouse hippocampal formation in magnetic resonance images. *Neuroimage.* 2011;58(3):732-40.
- Schönberger M, Ponsford J, Reutens DC, Beare R, Clarke D, O'Sullivan R. The relationship between mood disorders and MRI findings following traumatic brain injury. *Brain Inj.* 2011;25(6):543-50.
- Sheikh N, Henderson RD. Subacute unilateral cranial and cervical polyneuropathies. *Journal of Clinical Neuroscience.* 2011;18(5):683-734.
- Singh P, Yan J, Hull R, Read S, O'Sullivan J, Henderson R, Rose S, Greer J, McCombe P. Levels of phosphorylated axonal neurofilament subunit H (pNFH) are increased acute ischemic stroke. *J Neurol Sci* 2011; 304:117-121.
- Takagi M, Lubman DI, Walterfang M, Barton S, Reutens DC, Wood A, Yücel M. Corpus callosum size and shape alterations in adolescent inhalant users. *Addict Biol.* 2011 Sep 29. doi: 10.1111/j.1369-1600.2011.00364.x. [E-pub ahead of print] PMID: 21955104.
- Tieng QM, Cowin GJ, Reutens DC, Galloway GJ, Vegh V. MRI resolution enhancement: How useful are shifted images obtained by changing the demodulation frequency? *Magn Reson Med.* 2011;65(3):664-72.
- Tieng QM, Cowin GJ, Reutens DC, Galloway GJ, Vegh V. MRI demodulation frequency changes provide different information. *Magn Reson Med.* 2011;66(6):1513-4.
- Vajda FJE, O'Brien TJ, Lander CM, Eadie MJ. The rationale for pregnancy registers for women with epilepsy. *Medical Journal of Australia.* 2011;195:8-9.
- Vajda F, Graham J, Roten A, Lander C, O'Brien TJ, Eadie M. Teratogenicity of the newer antiepileptic drugs: The Australian experience. *Journal of Clinical Neuroscience* 2011; doi.org/10.1016/j.jocn.2011.08.003. [e-publication ahead of print].
- Vajda FJE, Graham J, Hitchcock AA, O'Brien TJ, Lander CM, Eadie MJ. Foetal malformations after exposure to antiepileptic drugs in utero assessed at birth and 12 months later. Observations from The Australian Pregnancy Register. *Acta Neurologica Scandinavica.* 2011; 124:9-12.
- Vajda FJE, Hollingworth S, Graham J, Hitchcock AA, O'Brien TJ, Lander CM, Eadie MJ. Changing patterns of antiepileptic drug use in pregnant Australian women. *Australian Journal of Obstetrics and Gynaecology* 2011–Sept 12: doi:10.1111/j.1497-828x2011-0139x. [E-pub ahead of print.]
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- Venkatachalam TK, Pierens GK, Bernhardt PV, Reutens DC. Synthesis and x-ray crystal structure of 1 and 2-cinnamoyloxy acetophenones. *J Chem Crystallogr.* 2011;41:563-569.
- Walterfang M, Fahey M, Abel L, Fietz M, Wood A, Bowman E, Reutens DC, Velakoulis D. Size and shape of the corpus callosum in adult niemann-pick type C reflects state and trait illness variables. *AJNR Am J Neuroradiol.* 2011;32(7):1340-6.
- Wong KK, Alty JE, Goy AG, Raghav S, Reutens DC, Kempster PA. A randomised, double-blind, placebo-controlled trial of levetiracetam for dyskinesia in Parkinson's disease. *Mov Disord.* 2011;26(8):1552-5.

Department of Nuclear Medicine incl. Queensland PET Service



Dr William Fong
Director, Nuclear Medicine

Overview

The Department of Nuclear Medicine at the Royal Brisbane and Women's Hospital 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 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/specialities
Dr William Fong	MBBS, FRACP	Director, Nuclear Medicine	paediatric nuclear medicine
Dr David Macfarlane	MBBS, FRACP	Deputy Director, Nuclear Medicine; Director, Queensland PET Service	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, Queensland PET Service	neuro-oncology imaging, kinetic analysis of PET tracers
Dr Marissa Bartlett	PhD Physics	Senior Medical Physicist	radiation safety, nuclear medicine and PET radio isotope imaging
Dr Matthew Griffiths	PhD Medical Physics	Director, Medical Physicists	cyclotron production of radioisotopes, medical imaging of radioisotopes
Dr Jye Smith	PhD Medical Physics	Medical Physicist	computer processing of medical images, radio isotope production
Bruce Wallace	MAppSc Medical Physics	Medical Physicist	radiation safety
John Bellen	BSc (Chem)	Radiochemistry Laboratory Manager	production of PET and NM radiopharmaceuticals
Dr Stephen Taylor	PhD SynthOrgChemistry	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
Sarah Stephenson	BAppSci (NMT)	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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Rose S, Crozier S, Salvado O, Coulthard A, Thomas P, Fay M	Improving the assessment of brain tumour treatment outcome using 18F-DOPA PET/MRI fusion.	NHMRC 631567	\$637,125	2009-2011

Publications

Huang YT, Ravi Kumar A. Potential for truncating 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 disease.* 2012 Jan 17. doi: 10.1111/j.1463-1318.2012.02938.x.

Bhatt M, Bartlett M, Mallitt K, McTaggart S, Ravi Kumar A. Correlation of different published radionuclide GFR estimation techniques and proposed paediatric normative data. *Nucl Med Commun.* 2011;32(11):1088-1094.

Blazak J, Ravi Kumar A. Palpation Thyroiditis seen on F-18 FDG PET/CT. *Clin Nucl Med.* 2011;36(3):261-3.

Fazlollahi A, Dowson N, Meriaudeau F, Rose S, Fay M, Thomas P, Taylor Z, Gal Y, Coultard A, Winter C, MacFarlane D, Salvado O, Crozier S, Bourgeat P. Automatic Brain Tumour Segmentation in 18F-FDOPA PET Using PET/MRI Fusion. 2011 International Conference on Digital Image Computing: Techniques and Applications, pages 325-329, 2011. 2011 IEEE (DOI 10.1109/DICTA.2011.61).

Saul ME, Thomas PA, Dosen PJ, Isbister GK, OLeary MA, Whyte IM, McFadden SA, van Helden DF. A pharmacological approach to first aid treatment for snakebite. *Nature Medicine* 2011;17:809-11. Pubmed ID 21706027. doi: 10.1038/nm.2382.

Palliative Care Service



Dr Carol Douglas

Clinical Director,
Palliative Care Service

Overview

The Palliative Care Service provides a consultative model of care to any patient at RBWH with progressive life-limiting disease. There are no dedicated research staff employed by 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 participation in studies contributing to the understanding of patients' experiences at the end-of-life.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Carol Douglas	MBChB, FRACGP, FACHPM, Dip Family Med, DipPalliativeMed	Clinical Director, Palliative Care Service; Senior Staff Specialist	pain medicine, motor neurone disease, renal disease

Research grants

Investigators	Project 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: A pilot study	Cancer Council Queensland Research Project Grant	\$100,000	2011

Department of Pharmacy

Overview

The Department of Pharmacy provides medicines management services for inpatients, outpatients and day admitted patients for RBWH, including the Geriatric and Rehabilitation Unit and Fortitude Valley (Metro North Mental Health Services).

The mission statement for the Department of Pharmacy is to deliver patient-centred, evidence-based, medicine-focussed care, through many facets of medicine management in collaboration with medical and nursing staff in hospital and in primary care.

The Department has an increasing team of researchers with collaboration at The University of Queensland School of Pharmacy and Medicine, Queensland University of Technology and independent research teams. Research is coordinated by Dr Jason Roberts, Consultant Clinical Pharmacist (Critical Care) and NHMRC Research Fellow.

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Assoc. Prof. Ian Coombes
Director, Pharmacy

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Ian Coombes	BPharm (Hons), MSc, PhD	Director, Pharmacy	pharmacy practice, medication safety, prescribing safety
Dr Jason Roberts	BPharm (Hons), BApp Sc, PhD, FSHP	Consultant Clinical Pharmacist	clinical pharmacokinetics and pharmacodynamics, critical care, infectious diseases
Dr Michael Barras	BPharm, PhD	Assistant Director	clinical pharmacokinetics
Dr Christine Carrington	BPharm, MSc, PhD	Assistant Director	cancer chemotherapy dose optimisation, pharmaceutical care to day therapy
Dr Lesley Ross-Lee	BPharm, PhD	Senior Clinical Trials Pharmacist	facilitation and coordination of investigator-lead and pharmaceutical company supported
Elizabeth Doran	MPharm	Senior Pharmacist	emergency medicine
Kelly Mulvogue	BPharm, BSc, PGDipClinPharm, MSHPA AACPA	Clinical Pharmacist	geriatrics, individualised evidence-based medicine
Kim Ta	BPharm (Hons)	Clinical Pharmacist	education and training
Noor Al-Adhami	BPharm, GradCert ClinPharm	Clinical Pharmacist	renal and cardiology
Julian Lindsay	BPharm (Hons)	Pharmacist	cancer care, neurology
Arna Neilsen	BPharm	Pharmacist	clinical services aligned with medical teams vs wards and health care outcomes

Supervised postgraduate students

Name	Current studies	Research topic
Carrington C	PhD	Role of pharmacist in medicine management in day care cancer patients
Mulvogue K	Master of Philosophy	De-prescribing in geriatric patients
Neilsen A	PhD	Team-based clinical pharmacy services
Firman P	Master of Clinical Pharmacy	Pharmacy practice
Marotti S	Master of Philosophy	Heparin dosing in vascular patients
Hall J	Masters of Clinical Pharmacy	Mineralocorticoid activity and aldosterone antagonist dose in hyperkalaemia
Sandhu G	PhD	Evaluation of the impact of increasing patient weight on the dosing of anticancer medication in malignant haematology and development of strategies to optimise treatment at The Prince Charles Hospital
Lindsay J	Master of Clinical Pharmacy	Pharmacist roles in cancer care
Hale A	PhD	Pharmacist prescribing in surgical pre-admission clinic at The Prince Charles Hospital
Stacey S	PhD	Validation and outcome of advanced training program for paediatric pharmacists

Achievements and awards

Award	Event	Recipient
Best Paper (Session: A good first move)	Society of Hospital Pharmacists of Australia National Conference, Hobart	Ta K
Best Paper (Session: Making antibiotics safe)	Society of Hospital Pharmacists of Australia National Conference, Hobart	Roberts JA
The University of Queensland Foundation Research Excellence Award	The University of Queensland	Roberts JA
Denis Wade New Investigator Award	Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists	Roberts JA
Best Paper (Session: Make an educated move)	Society of Hospital Pharmacists of Australia National Conference, Hobart	Ta K, Coombes I
Best Paper (Session: Make a move)	Society of Hospital Pharmacists of Australia National Conference, Hobart	Hale A, Coombes I

Publications

- Coombes I, Wheeler A, Hale A. Evaluation of effectiveness and relevance of safe medication practice tutorials as a course for pharmacist prescribers in New Zealand. *Pharmacy Education* 2011;11 (1):95-98.
- Coombes I, Bates I, Duggan C, Galbraith K. Developing and recognising advanced practitioners in Australia: An opportunity for a maturing profession? *J Pharm Pract Res* 2011;41 17-18.
- Coombes I, Reid C, McDougall D, Stowasser D, Duiguid M, Mitchell C. Pilot of National inpatient medication Chart in Australia: improving prescribing safety and enabling prescribing training. *BrJCP*. 2011;72(2):338-349.
- Hale AR, Coombes ID, Stowasser DA, Nissen L. Evaluation of non-medical prescribing. *Aust Health Rev*. 2011 Feb;35(1):36.
- Noble C, Shaw P, Nissen L, Coombes I, O'Brien M. Curriculum for uncertainty may not be the answer. *Am J Pharm Ed*. 2011;75(1):1-2.
- Noble C, O'Brien M, Coombes I, Shaw P, Nissen L. Concept Mapping to evaluate an undergraduate pharmacy curriculum. *Am J Pharm Educ*. 2011 Apr 11;75(3):55.
- Morris S, Coombes I. The right to prescribe: Towards core prescribing competencies for all prescribers. *Aust Prescr*. 2011;34:126-127.
- Barras MA, Alraman H, Kirkpatrick CMJ, Harris M, Dakin C, Jess K, Pilbeam M, Norris RLG. Bayesian optimisation of tobramycin dosing in patients with Cystic Fibrosis. *JPPR*. 2011;41:183-187.
- Mudge A, Redfern H, Barras MA, Bell J, Pachana N, Kasper K. Redefining readmission risk factors for general medicine patients. *J Hosp Med*. 2011;6:61-67.
- Carrington C, Weir J, Smith P. The development of a competency framework for pharmacists providing cancer services. *Journal of oncology pharmacy practice*. 2011;17(3):168-178.
- Al Balushi RM, Paratz JD, Cohen J, Banks M, Dulhunty J, Roberts JA, Lipman J. Effect of intravenous glutamine supplementation in trauma patients receiving enteral nutrition study protocol (GLINT Study): A prospective, blinded, randomised, placebo-controlled clinical trial. *BMJ Open*. 2011;1:e000334.
- Lipman J, Udy AA, Roberts JA. Do we understand the impact of altered physiology, consequent interventions, and resultant clinical scenarios in ICU? The antibiotic story. *Anaesth Intens Care*. 2011;999-1000.
- Patel K, Roberts JA, Tett S, Deldot M, Lipman J, Kirkpatrick CMJ. Population pharmacokinetics of fluconazole in critically ill patients receiving continuous venovenous hemodiafiltration: Using Monte Carlo Simulations to predict doses for specified pharmacodynamic targets. *Antimicrob Agents Chemother*. 2011;55(12):5868-5873.
- Sinnollareddy M, Peake SL, Roberts MS, Playford EG, Lipman J, Roberts JA. Pharmacokinetic evaluation of fluconazole in critically ill patients. *Expert Opin Drug Metab Toxicol*. 2011;7(11):1431-40.
- Douglas A, Udy AA, Wallis SC, Jarrett P, Stuart J, Lassig-Smith M, Deans R, Roberts MS, Taraporewalla K, Jenkins J, Medley G, Lipman J, Roberts JA. Plasma and tissue pharmacokinetics of cefazolin in patients undergoing elective and semi-elective abdominal aortic aneurysm open repair surgery. *Antimicrob Agents Chemother*. 2011;55(11):5238-42.
- Roberts JA. Using PK/PD to optimise antibiotic dosing for critically ill patients. *Curr Pharmaceut Biotechnol*. 2011;12(12):2070-9.
- Roberts JA. The importance of antibiotic dosing in critically ill patients. *Curr Pharmaceut Biotechnol*. 2011;12(12):198-2.
- Baptista JP, Udy AA, Sousa E, Pimentel J, Wang L, Roberts JA, Lipman J. A comparison of estimates of glomerular filtration in critically ill patients with augmented renal clearance (ARC). *Crit Care*. 2011;15(3):R139.

Publications

Martin JH, Fay MF, Udy A, Roberts JA, Kirkpatrick CMJ, Ungerer J, Lipman J. Pitfalls of using estimations of glomerular filtration rate in an intensive care population. *Intern Med J* 2011; 41(7):537-43.

Roberts JA, Taccone FS, Udy AA, Jacobs F, Louis JL, Lipman J. Vancomycin dosing in critically ill patients: Robust methods for improved continuous infusion regimens. *Antimicrob Agents Chemother* 2011; 55(6): 2704-2709.

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Roberts JA, Kirkpatrick CMJ, Lipman J. Monte-Carlo Simulations: Maximising antibiotic pharmacokinetic data to optimise clinical practice for critically ill patients. *J Antimicrob Chemotherapy*. 2011;66:227–231.

Ulldemolins M, Roberts JA, Rello J, Paterson DL, Lipman J. The effects of hypoalbuminaemia on optimising antibiotic dosing in critically ill patients. *Clin Pharmacokinet*. 2011;50(2):1-12.

Roberts JA, Kwa A, Montakantikul P, Gomersall C, Kuti JL, Nicolau DN. Pharmacodynamic profiling of intravenous antibiotics against prevalent gram-negative organisms across the globe: The PASSPORT Program, Asia-Pacific region. *Int J Antimicrob Agents*. 2011;37(3): 225-9.

McGloughlin S, Roberts JA, O'Donoghue S, Martin JH, Briscoe S, Lipman J. Ganciclovir pharmacokinetics and suggested dosing in continuous veno-venous haemodiafiltration. *Int J Antimicrob Agents*. 2011;37(1):90-2.

Varghese JM, Roberts JA, Lipman J. Antimicrobial pharmacokinetic and pharmacodynamic issues in the critically ill with severe sepsis and septic shock. *Crit Care Clin*. 2011;27:19-34.

Department of Renal Medicine



Dr Helen Healy
Director, Renal Medicine

Overview

The Department of Renal Medicine continues to advance its research program within the laboratory and through the field and to the bedside. Collaborations are developing within RBWH, particularly Dr Ranganathan with the Department of Intensive Care Medicine and the Department of Rheumatology, with antibiotic and vasculitis studies respectively.

Externally there has been rapid growth of CKD Qld, a multidisciplinary chronic kidney disease research platform that includes a chronic kidney disease registry. This collaboration with Professor Wendy Hoy includes all Queensland Health renal chronic kidney disease clinics in Queensland (see www.CKDQLD.org).

Ongoing collaborations with The University of Queensland School of Human Movement studies yield fruitful results with publications and grants. Collaborations with the School of Human Life Sciences at The University of Tasmania in the laboratory continue and with the School of Nursing and Midwifery in the area of Palliative Care.

The establishment of a Professorial Nursing Research Unit within renal medicine promises to further advance research productivity. Allied health researchers continue to undertake high quality investigations leading to grant success and publications. The conjoint renal research laboratory has undergone a successful review and will continue to expand its research agenda and productivity. Both investigator initiated and industry sponsored clinical trials are undertaken. In particular, renal medicine contributes to high quality and important national and international clinical trials and supports studies performed under the auspices of the Australian Kidney Trial Network. Renal medicine researchers have presented at national and international meetings with increased frequency.

Research publications continue to increase both in quantity but also quality based on journal impact factors. Advanced trainees in renal medicine are taking an increasing interest and role in research and present regularly at the Australian and New Zealand Society of Nephrology Meetings. Renal medicine researchers contribute significantly to review of research both for journal manuscripts and grants for NHMRC and internationally.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Helen Healy	MBBS, PhD, FRACP	Director, Renal Medicine	dendritic cells, chronic kidney disease, polycystic kidney disease, clinical trials
Prof. Robert Fassett	BMedSc, MBBS, PhD, FRACP, FASN	Director, Renal Research	chronic kidney disease, clinical trials, oxidative stress and inflammation, exercise, astaxanthin, omega-3 polyunsaturated fatty acids, cardiovascular disease
Dr Dwaraka Ranganathan	MD, DM, FRCP, FRACP	Senior Staff Specialist	peritoneal dialysis, clinical trials, antibiotics, vasculitis, home dialysis therapies
Dr Adrian Kark	MBChB, FRACP	Senior Staff Specialist	chronic kidney disease
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	hemodialysis, ESAs
Dr Ray Wilkinson	AssocDMedTech, BSc (Hons), PhD	Post Doctoral Fellow	dendritic cells, conjoint renal laboratory
Xiangju Wang	MSc	Research Scientist	conjoint renal laboratory
Anne Salisbury	RN	Executive Coordinator CKD.QLD	chronic kidney disease, registry
Dr Sree Krishna Venuthurupalli	MBBS, FRACP	PhD Student	CKD.QLD
Ritza Driver	RN, MSc (Echocardiography)	Research Technician	cardiovascular measurements
Tania Whitlock		Administrative Officer	renal research

Research staff

Name	Qualifications	Position	Interests/specialities
Elisabeth Hamernik		Clinical Psychologist	adherence to therapies, depression
Prof. Ann Bonner	BAppSc (Nurs), MA, PhD	Prof. Renal Nursing, QUT	chronic conditions, chronic disease, grounded theory, kidney, renal, transplantation
Danielle Heffernan	RN	ADON, Renal Medicine	administration
Julie Kirby	RN	Clinical Trial Coordinator	clinical trials
Lisa Hart	RN	Renal Transplant Coordinator	renal transplantation
Caroline Shelverton	RN	Renal Transplant Coordinator	renal transplantation
Lesley Williams	RN	Registered Nurse	peritoneal and home dialysis
Nicola Williams	RN	Registered Nurse	peritoneal and home dialysis
Tony Blinkhorn	RN	Registered Nurse	hemodialysis
Rebecca Russo	RN	Registered Nurse	chronic kidney disease
Sonya Coleman	RN	Registered Nurse	chronic kidney disease
Belinda Morey		Senior Dietitian; Nutritionist	salt in chronic kidney disease

Supervised postgraduate students

Name	Current studies	Research topic
Venuthurupalli S	PhD	CKD.QLD
Houghton C	PhD	Effects of sulphorophane on kidney function in CKD patients with type two diabetes
Matsumoto A	PhD	Effects of exercise training and antioxidant supplementation on endothelial cell gene expression
Sampangi S	PhD	The role of renal proximal tubular epithelial cells (PTEC) in autologous immune-modulation

Awards and achievements

Award	Event	Recipient
Best clinical science presentation for 'Pharmacokinetics of intraperitoneal gentamicin in peritoneal dialysis patients with peritonitis (GIPD Study)'	2011 RBWH Healthcare Symposium	Varghese J

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Ranganathan D	POEMSLUN study	RBWH Foundation	\$40,000	2011
Fassett RG, Johnson DJ 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 RG, Coombes JS	A metabolic testing suite for clinical exercise physiology, sports science and sports nutrition research	The University of Queensland	\$159,325	2011
Fassett RG, Shing C, Coombes JS	Premature cell aging	Clifford Craig Medical Research Trust	\$6,273	2011-2012
Fassett RG, Coombes JS	COMIVID study	Baxter Clinical Excellence Commission	\$75,000	2011-2013
Fassett RG, Hoy W	CKD.QLD	AMGEN Australia	\$400,000	2010-2012

Publications

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- Coombes JS, Fassett RG. Antioxidant therapy in haemodialysis patients. *Kidney Int*. 2012;81(3):233-46.
- Fassett RG. The uremic milieu, the ubiquitin proteasome pathway and the endothelial cell: A pathway to dysfunction. *Exp Physiol*. 2011;96(8):716-7.
- Fassett RG, Venurathapilli SK, Gobe G, Coombes JS, Cooper MA, Hoy W. Biomarkers in chronic kidney disease: A review. *Kidney Int*. 2011;80(8):806-2.
- Holdaas H, Rostaing L, Serón D, Cole E, Chapman J, Fellström B, Strom EH, Jardine A, Midtvedt K, Machein U, Ulbricht B, Karpov A, O'Connell PJ; ASCERTAIN Investigators. Conversion of long-term kidney transplant recipients from calcineurin inhibitor therapy to everolimus: A randomised, multicenter, 24-month study. *Transplantation*. 2011;27:92(4):410-8.
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- Strobel N, Marsh S, Fassett RG, Coombes JS. Importance of understanding pre-analytical variability in biomarker development. *International Journal of Cardiology*. 2011;150(2):223-4.
- Fassett RG, Robertson IK, Ball MJ, Cardinal J, Geraghty DP, 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 E-pub 2011 May 4.
- Bulmer AC, Coombes JS, Blanchfield JT, Toth I, Fassett RG, Taylor SM. Bile pigment pharmacokinetics and absorption in the rat: Therapeutic potential for enteral administration. *Br J Pharmacol*. 2011;164(7):1857-70.
- Raggi P, Chertow GM, Torres PU, Csiky B, Naso A, Nossuli K, Moustafa M, Goodman WG, Lopez N, Downey G, Dehmel B, Floege J, ADVANCE Study Group The ADVANCE study: A randomised study to evaluate the effects of cinacalcet plus low-dose vitamin D on vascular calcification in patients on hemodialysis. *Nephrol Dial Transplant*. 2011;26(4):1327-39.
- 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 (Lond)*. 2012;36(1):93-9. E-pub 2011 Apr 12.
- Fassett RG, Coombes JS. Astaxanthin: A therapeutic agent in cardiovascular disease for Marine Drugs. 2011;9(3):447-65.
- Crawford A, Fassett RG, Coombes JS, Kunde DA, Ball MJ, Geraghty DP. Glutathione peroxidase, superoxide dismutase and catalase genotypes and activities and the progression of chronic kidney disease. *Nephrology Dialysis and Transplantation*. 2011;26(9):2806-13.
- Shing CM, Adams MJ, Fassett RG, Coombes JS. Nutritional compounds influence tissue factor expression and inflammation of chronic kidney disease patients in vitro. *Nutrition*. 2011;27(9):967-72.
- 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*. 2011 Feb 3. [e-pub ahead of print].
- Fassett RG, Gobe G, Peake J and Coombes JS. In reply to 'omega-3 polyunsaturated Fatty acids and clinical trials' and 'polyunsaturated Fatty acids and kidney disease' *American Journal of Kidney Disease*. 2011;57(2):353.
- Houghton CA, Steels EL, Fassett RG, Coombes JS. Effects of a gliadin-combined plant superoxide dismutase extract on self-perceived fatigue in women aged 50-65 years *Phytomedicine*. 2011;15:18(6):521-6.
- Peake J, Gobe GC, Fassett RG, Coombes JS. Effects of fish oil supplementation on inflammation, apoptosis, fibrosis and oxidative stress following obstructive renal injury in rats. *Molecular Nutrition and Food Research*. 2011;55(3):400-10.
- Fassett RG, Robertson IK, Mace R, Youl L, Challenor S, Bull R. Palliative care in end stage kidney disease. *Nephrology*. 2011;16(1):4-12.
- Strobel NA, Fassett RG, Marsh SA, Coombes JS. Biomarkers of oxidative stress as predictors of cardiovascular disease. *International Journal of Cardiology*. 2011 Mar 3;147(2):191-201.
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- Morais C, Gobe G, Johnson DW, Healy H. The emerging role of nuclear factor kappa B in renal cell carcinoma. *Int J Biochem Cell Biol*. 2011;43(11):1537-49. E-pub 2011 Aug 12.
- Wilkinson R, Wang X, Roper KE, Healy H. Activated human renal tubular cells inhibit autologous immune responses. *Nephrol Dial Transplant*. 2011;26(5):1483-92. E-pub 2010 Nov 2.

Publications

- 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.* 2011;15:1-3.
- Chacko B, John GT. Leflunomide for cytomegalovirus: Bench to bedside. *Transpl Infect Dis.* 2011 Oct 9. [E-pub ahead of print]
- 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.* 2011 Oct 26. [e-pub ahead of print]
- Basu G, Mohapatra A, Manipadam MT, Mani SE, John GT. Leflunomide with low-dose everolimus for treatment of Kaposi's sarcoma in a renal allograft recipient. *Nephrol Dial Transplant.* 2011 Oct;26(10):3412-5. E-pub 2011 Jul 20.
- New N, Mohandas J, John GT, Ratanjee S, Healy H, Francis L, Ranganathan D. Calcific uremic arteriopathy in peritoneal dialysis populations. *Int J Nephrol.* 2011;2011:982854. E-pub 2011 Jun 27.
- Koshy CG, Chacko BR, Babu S, Basu G, Selvaraj D, John GT. An unusual case of abdominal wall bleeding after renal allograft biopsy. *Indian J Nephrol.* 2011;21(1):62-5.
- Mohapatra A, Viswabandya A, Samuel R, Deepti AN, Madhivanan S, John GT. NK/T-cell lymphoma in a renal transplant recipient and review of literature. *Indian J Nephrol.* 2011;21(1):44-7.
- Veerappan I, Neelakantan N, Tamilarasi V, John GT. Medical and non-medical factors that affect voluntary living-related kidney donation: A single-center study. *Indian J Nephrol.* 2011;21(1):14-20.
- Fleming DH, Mathew BS, Prasanna S, Annapandian VM, John GT. A possible simplification for the estimation of area under the curve (AUC) of enteric-coated mycophenolate sodium in renal transplant patients receiving tacrolimus. *Ther Drug Monit.* 2011;33(2):165-70.
- Lau PK, Woods ML, Ratanjee SK, John GT. Artesunate is ineffective in controlling valganciclovir-resistant cytomegalovirus infection. *Clin Infect Dis.* 2011;52(2):279.
- Basu G, Chrispal A, Boorugu H, Gopinath KG, Chandy S, Prakash JA, Thomas K, Abraham AM, John GT. Acute kidney injury in tropical acute febrile illness in a tertiary care centre--RIFLE criteria validation. *Nephrol Dial Transplant.* 2011;26(2).
- Mallett A, Lynch M, John GT, Healy H, Lust K. Ibuprofen-related renal tubular acidosis in pregnancy. *Obstet Med.* 2011, doi: 10.1258/om.2011.110041.

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/specialities
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 Sateesh Shankaranarayana	MBBS	Advanced Trainee	giant cell arteritis
Kellie Stockton	BPthy	PhD Candidate	SLE cardiac imaging, fatigue, vitamin D status
Dr Ben Whitehead	MBBS, FRACP	Clinical Fellow	adolescent rheumatology

Publications

Martin JH, Kubler PA. Treatment for pulmonary hypertension in Australia. *IMJ* 2011;41:217-9.

Stockton K, Paratz J, Kandiah D, Bennell K. Fatigue, muscle strength and vitamin D status in women with systemic lupus erythematosus compared to healthy controls. *Lupus*. 2011;21:271-8.

Stockton K, Wrigley T, Mengersen K, Kandiah D, Paratz J, Bennell K. Test-retest reliability of hand-held dynamometry and functional tests in systemic lupus erythematosus. *Lupus*. 2011;20:144-50.

Stockton KA, Mengersen K, Paratz JD, Kandiah D, Bennell KL. Effect of vitamin D supplementation on muscle strength: A systematic review and meta-analysis. *Osteoporos Int*. 2011;22:859-71.

Department of Thoracic Medicine

Overview

Research projects at the Department of Thoracic Medicine include:

- 36-year follow up of the Tasmanian Asthma Study in Queensland (Morrison S, Dharmage S, Walters EH, Abramson M, Hopper J, Jenkins M, Feather I, Brown M)
- Airway epithelial regeneration and inflammation in asthma (Solomon C, Upton Z, Morrison S, Chandratilleke M, Stewart I, Brown M)
- The effect of respiratory frequency on forced oscillation measures of respiratory system mechanics (Brown M, Morrison S)
- A placebo-controlled randomised safety and efficacy study of Botox in patients with neurogenic detrusor overactivity and neurological respiratory impairment (Gardiner R, Scells B, Morrison S, Brown M)
- The effect of pegylated interferon alpha on lung function, an exploratory study (Chia C, Clarke P, Zappala C, Morrison S, Leggett B)
- Impedance oscillometry and respiratory function testing in dynamic airways compression (Nguyen P, Morrison S, Brown M, Fielding D)
- Hi-COPD (Bashirzadeh F)
- VOC breath testing in in-situ lung cancer (Fielding D)
- VOC breath testing in in-situ larynx cancer (Fielding D)
- Prospective audit of pleural effusion management pathway (Fielding D, Ritchie A)
- Pleural ultrasound teaching tools (Fielding D, Salomonsen M)
- Intercostal artery localisation (Fielding D, Salomonsen M)
- Detecting trapped lung with echo speckle track imaging (Fielding D, Salomonsen M)
- Chest drain insertion assessment tools (Fielding D, Salomonsen M)
- NBI surveillance post curative of head and neck cancer (Fielding D).



Assoc. Prof. Stephen Morrison
Director, Thoracic Medicine

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Stephen Morrison	FRACP, PhD	Director, Thoracic Medicine	respiratory medicine
Dr David Fielding	FRACP, MD	Staff Physician	respiratory medicine
Dr Christopher Zappala	FRACP, MD	Staff Physician	respiratory medicine
Dr Matthew Salomonsen	PHD	Clinical Fellow	respiratory medicine
Michael Brown	MAppSci	Lecturer QUT; Senior Scientist	respiratory medicine
Dr Farzad Bashirzadeh	FRACP, MD, MSM,	Staff Physician	respiratory medicine

Medical Imaging Reform Service



Medical Imaging Reform Service

Overview

The organisational structure of Medical Imaging is designed to support research, with research and education being one of the pillars of the Department, along with quality of care and service work.

The Director of Medical Imaging endorses research and wholly supports the work of the Director of Research, who promotes research as a desirable and necessary activity across all streams.

Funding, acquired through the successful acquisition of service revenue, has been invested in research personnel with key posts including, a Research Development Officer, part-time Research Nurse and one SHO level researcher.

The research division is active in maintaining the culture of research in the Department with regular newsletters, research presentations, journal clubs and other educational activities, managed by a steering group including radiology, radiography, nursing and administration streams.

In addition the radiography stream has been successful in acquiring external funding for educational positions and activities.

Key achievements for 2011:

- 14 publications
- Extended DMI collaborative network. Research projects with QBI, UQCCR, UQ, CAI and QUT
- Coordinating site for INR National Research Collaborative
- Completion of the IVC Filter (Crux) and PERI (Bayer) studies
- 25 active studies
- 35 ongoing studies.

Executive and directing staff

- **Adj. Assoc. Prof. Noelle Cridland**
Executive Director
- **Dr John Clouston**
Director, Medical Imaging
- **Prof. Alan Coulthard**
Director, Research
- **Vanessa Clarke**
Director, Medical Imaging Services



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



Dr John Clouston
Director, Medical Imaging



Prof. Alan Coulthard
Director, Research



Vanessa Clarke
Director, Medical Imaging Services

Research staff

Name	Qualifications	Position	Interests/specialities
Dr John Clouston	MBBS, FRANZCR	Director, Medical Imaging	interventional radiology
Prof. Alan Coulthard	MBBS, BMedSci, FRCS, FRCR, FRANZCR,	Director, Research; Prof. Neuroradiology and Head, Discipline of Medical Imaging, UQ	neuroradiology, neuro-intervention
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
Ms Karen Dobeli	MAppSci (MedRadSci), FIR	Senior Radiographer	computed tomography
Dr Liam Caffery	BIT, DipAppSci (DiagRad), PhD	Senior Systems Radiographer	picture archiving and communication systems, teleradiology
Dr Annah Lane	BSc, MBBS	Research SHO	neuroradiology research
Dr John Velkovic	BE (Med), MBBS	Radiology Registrar	neuroradiology research
Dr Jeanie Scott	BSc (Hons), PhD	Research Development Officer	research development
Dr Lawrence Josey	BSc (Med), MBBS	Radiology Registrar	neuroradiology research
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
Matthew Gordon	BAppSci (Med Imaging)	Radiographer	emergency medical imaging, image interpretation
Carron Devaney	BAppSci (Med Imaging)	Radiographer	emergency medical imaging
Greg Edwards	BAppSci (Med Imaging)	Radiographer	theatre
Dr Craig Hacking	BSc, MBBS	Radiology Registrar	emergency medicine, MSK

Supervised postgraduate students

Name	Current studies	Research topic
Eastgate P	Masters (Radiography Research)	Can the radiographer go one step further?
Rawle M	Masters (Health Science)	Cost effectiveness of MRI exams for stroke detection: Are we doing too many sequences?
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
Hassed P	Master (Health Science)	Radiographic interpretation

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Steinke K	Microwave ablation of lung tumours	Private Practice Trust Fund	\$71,000	2010-2011
Steinke K	Analysing dose reduction using iDose software and hardware	Private Practice Trust Fund	\$100,000	2010-2011
Coulthard A, Scott J	The Australia and New Zealand Interventional Neuroradiology Collaborative	ANZSNR and RANZCR	\$50,000	2010-2011
Scott J	Developing research in radiology	Private Practice Trust Fund	\$80,000	2010-2012
Shay F, Coulthard A, Danaher L.	Are curricula, teaching activities and assessment procedures for chest radiograph interpretation integrated across the continuum of medical training?	Centre for Medical Education Research and Scholarship	\$4,000	2010-2011
Steinke K, Coulthard A	High-end MR breast imaging diagnostic evaluation and interventional system	QPACT	\$324,825	2010-2011
Rose S, Crozier S, Salvado O, Coulthard A, Thomas P, Fay M	Improving assessment of brain tumour treatment outcome using 18F-FDOPA PET MRI	NHMRC	\$637,125	2010-2012
Taylor B, Van Der Mei I, Lucas R, Coulthard A, Blizzard C	Prognostic factors following a first episode of CNS demyelination suggestive of MS (Auslong)	NHMRC	\$689,575	2009-2011

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.* 2011. Apr 13. [e-pub ahead of print]
- Barwood CHS, Murdoch BE, Whelan B, Lloyd D, Riek S, O'Sullivan JD, Coulthard A, Wong A. Modulation of N400 in chronic non-fluent aphasia using low frequency repetitive transcranial magnetic stimulation (Rtms). *Brain and Language.* 2011;116(3):125-35.
- Barwood CHS, Murdoch BE, Whelan B-M, Lloyd D, Riek S, O'Sullivan J, Coulthard A, Wong A, Aitken P, Hall G. The effects of low frequency repetitive transcranial magnetic stimulation (Rtms) and sham condition Rtms on behavioural language in chronic non-fluent aphasia: Short term outcomes. *NeuroRehabilitation.* 2011;28(2):113-28.
- Barwood CH, Murdoch BE, Whelan BM, Lloyd D, Riek S, O' Sullivan JD, Coulthard A, Wong A. Improved language performance subsequent to low-frequency rTMS in patients with chronic non-fluent aphasia post-stroke. *Eur J Neurol.* 2011;18(7):935-43.
- Brown NB, Josey LB. Risky radiology: Not so black and white. Letter to the editor. *Med J of Australia.* 2011;194(8):428-429.
- Danaher LA, Howells J, Holmes P, Scally P. Is it possible to eliminate patient identification errors in medical imaging? *J Am Coll Radiol.* 2011;8(8):568-74.
- Fielding DI, Chia C, Nguyen P, Bashirzadeh F, Hundloe J, Brown IG, Steinke K. Prospective randomised trial of ebus guide sheath versus CT guided percutaneous core biopsies for peripheral lung lesions. *Intern Med J.* 2011 Dec 29. [E-pub ahead of print]
- Gardiner RA, Gwynne RA, Roberts SA. Perinephric abscess. *BJU Int.* 2011;107 Suppl 3:20-3.
- Hoenig MR, Cowin G, Buckley R, McHenery C, Coulthard A. Low density lipoprotein cholesterol is inversely correlated with abdominal visceral fat area: A magnetic resonance imaging study. *Lipids in health and disease.* 2011;10:12.
- Hughes AM, Lucas RM, Ponsonby AL, Chapman C, Coulthard A, Dear K, Dwyer T, Kilpatrick TJ, McMichael AJ, Pender MP, Taylor BV, Valery P, van der Mei IA, Williams D. The role of latitude, ultraviolet radiation exposure and vitamin D in childhood asthma and hay fever: An Australian multicenter study. *Pediatr Allergy Immunol.* 2011 May;22(3):327-33.
- Lucas RM, Ponsonby AL, Dear K, Valery P, Pender MP, Burrows JM, Burrows SR, Chapman C, Coulthard A, Dwyer DE, Dwyer T, Kilpatrick T, Lay ML, McMichael AJ, Taylor BV, van der Mei IA, Williams D. Current and Past Epstein-Barr Virus Infection in Risk of Initial CNS Demyelination. *Neurology.* 2011;77(4):371-9.
- Lucas RM, Ponsonby AL, Dear K, Valery PC, Pender MP, Taylor BV, Kilpatrick TJ, Dwyer T, Coulthard A, Chapman C, van der Mei I, Williams D, McMichael AJ. Sun exposure and vitamin D are independent risk factors for CNS demyelination. *Neurology.* 2011;76(6):540-8.
- Moesbergen TC, de Ryke RJ, Dunbar S, Wells JE, Anderson NG. Distal ureteral calculi: US follow-up. *Radiology.* 2011;260(2):575-80.
- Steinke K, Sanadgol B, Singh M. Mediastinal nodal angiomatosis: An unusual mass lesion in the superior mediastinum. *J Med Imaging Radiat Oncol.* 2011;55(2):195-8.

Medical Services



Medical Services

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 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 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 (METS)
- Centre for Palliative Care Research and Education
- Human Research Ethics Committee
- Safety and Quality Unit

Executive and directing staff

- **Dr Judy Graves**
Executive Director
- **Dr Amanda Dines**
Deputy Executive Director
- **Dr Humsha Naidoo**
Deputy Executive Director
- **Dr Graham Steel**
Director, Centre for Medical Officer Recruitment and Education
- **Prof. Patsy Yates**
A/Director, Palliative Care Service
- **Dr Conor Brophy**
Chair, Human Research Ethics Committee
- **Barbara Slaughter**
Director, Safety and Quality Unit



Dr Judy Graves
Executive Director
Medical Services



Dr Amanda Dines
Deputy Executive Director
Medical Services



Dr Humsha Naidoo
Deputy Executive Director
Medical Services



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

Centre for Palliative Care Research and Education



Prof. Patsy Yates

A/Director, Centre for 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, Queensland University of Technology, Karuna Hospice Service and General Practice Queensland.

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/specialities
Prof. Patsy Yates	RN, BA, DipAppSoc, MSocSci, PhD, FRCNA	A/Director, Centre for 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	Research Officer	end-of-life clinical pathways, improving access to palliative care education
Kym Griffin	RN, MN (Prac), Cert IV Leadership, Cert IV Frontline Management, MPCNA, MONG, MPCQ	Research Officer	improving access to palliative care, improving access to good quality end-of-life care for non-oncological clients

Supervised postgraduate students

Name	Current studies	Research topic
Boyd Orford C	PhD	Palliative care practices in high intensity transplant setting
Ranse K	PhD	Palliative care practices in ICU
Chan R	PhD	Understanding fatigue in advanced cancer patients; patterns, contributing factors and implications for supportive care
Huang Ya-Ling	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
Bista Sudeep R	PhD	Improving analgesia in cancer patients

Research staff

Investigators	Project title	Granting body	Amount awarded	Years of funding
Yates P	Program of Experience in the Palliative Approach (PEPA)	Australian Government Department of Health and Ageing	\$330,478	2010-2011
Hope C, Yates P	NHMRC Trip Fellowship 2010-2012	NHMRC	\$124,000	2010-2012
Yates P, Haberecht J, Griffin K	Syringe driver management in palliative care project	Palliative Care Australia	\$236,551	2010-2011
Yates P, Mitchell G, Connell S, Skerman H, Wilson A, Colquist S, Douglas C	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
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	2010-2011
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	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.	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.	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
Glare P, Hardy J	Randomised, double-blind control trial of megestrol acetate, dexamethasone and placebo in the management of anorexia in people with cancer	Australian Government Department of Health and Ageing	\$120,655	2007-2011
Hardy J, Norris B, O'Shea A, Charles B	An evaluation of the validity of measuring salivary oxycodone concentrations for pharmacokinetic studies in palliative care patients	NHMRC	\$49,135	2008-2011
Hardy J, Norris B, O'Shea A, Charles B	An evaluation of the validity of measuring salivary oxycodone concentrations for pharmacokinetic studies in palliative care patients	JP Kelly Mater Health Services Research Fund	\$15,000	2008-2011
Nikles CJ, 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 staff

Investigators	Project title	Granting body	Amount awarded	Years of funding
Nikles CJ, 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
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
Hardy J, McKeown C	A randomised trial of electroacupuncture versus sham acupuncture and no acupuncture for the control of acute and delayed chemotherapy induced nausea and vomiting: Pilot feasibility study	Smiddy Foundation	\$14,500	2010 - 2011
Sanderson C, Hardy J, Currow D	A randomised, double-blind, placebo-controlled study of subcutaneous ketamine in the management of cancer pain	NHMRC Developmental Grant	\$50,000	2009 -2011
Hardy J	Data management grant	Cancer Council Queensland	\$51,000	2010 -2011
Hardy J	PaCCSC infrastructure grant for research staff	Australian Government Department of Health and Ageing	\$331,226	2007 - 2011

Publications

- Griffiths M, Schweitzer R, Yates P. Childhood experiences of cancer: An interpretative phenomenological analysis approach. *Journal of Pediatric Oncology Nursing*. 2011;28(2):83-92.
- Turner J, Kelly B, Clarke D, Yates P, Aranda S, Jolley D, Chambers S, Hargraves M, McFadyen L. A randomised trial of a psychosocial intervention for cancer patients integrated into routine care: The PROMPT study (promoting optimal outcomes in mood through tailored psychosocial therapies). *BMC Cancer*. 2011;11(1):48.
- Rawlings D, Hendry K, Mylne S, Banfield M, Yates P. Using palliative care assessment tools to influence and enhance clinical practice. *Home Healthcare Nurse*. 2011;29(3):1-7.
- 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 in Cancer Journal*, 2011;Apr 15th. (E-pub ahead of print)
- Mathisen B, Yates P, Crofts P. Palliative care curriculum for speech-language pathology students. *International Journal of Language and Communication Disorders*. 2011;46(3):273-285.
- Connell S, Yates P, Barrett L. Understanding the optimal learning environment in palliative care. *Nurse Education Today*. 2011;31(5):472-476.
- Shenoy V, Lwin Z, Morton A, Hardy J. Ectopic adrenocorticotrophic hormone syndrome associated with poor prognosis in metastatic parotid acinic cell carcinoma. *Otolaryngology: Head and Neck Surgery*. 2011;May 3rd. [E-pub ahead of print]
- Beadle G, Mengersen K, Moynihan S, Yates P. Perceptions of the ethical conduct of cancer trials by oncology nurses. *European Journal of Cancer Care*. 2011;20:585-592.
- Hayes S, Rye S, Battistutta D, Yates P, Pyke C, Bashford J, Eakin E. Design and implementation of the Exercise for Health trial – A pragmatic exercise intervention for women with breast cancer. *Contemporary Clinical Trials*. 2011;32(4):577-585.
- Tramm R, McCarthy AL, Yates P. Dietary modification for women after breast cancer treatment: A narrative review. *European Journal of Cancer Care*. 2012;20:294-304.
- Anderson DJ, Yates P, McCarthy A, Lang CP, Hargraves M, McCarthy N, Porter-Steele J. Younger and older women's concerns about menopause after breast cancer. *European Journal of Cancer Care*. 2011;20:785-794.
- Shenoy V, Lwin Z, Morton A, Hardy J. Ectopic adrenocorticotrophic hormone syndrome associated with poor prognosis in metastatic parotid acinic cell carcinoma. *Otolaryngology/Head and Neck Surgery*. 2011;145(95):87-879 May 3. [E-pub ahead of print]
- Chan R, Yates P, McCarthy A. The aetiology, impact and management of cancer-related fatigue in patients with advanced cancer. *The Australian Journal of Cancer Nursing*. 2011;12(2):4-11.

Safety and Quality Unit

Overview

The Safety and Quality Unit is responsible for the provision of organisational services based on a commitment to continuous quality improvement aimed at enhancing patient-focused services.

The unit also provides support to the Safety and Quality Committee and all service lines to promote and facilitate service improvements to enhance patient outcomes. Research areas include falls prevention and acute care of the elderly.



Barbara Slaughter
Director, Safety and Quality

Research staff

Name	Qualifications	Position	Interests/specialities
Lisa Mitchell	RN , GradCert ONC MSSc (Health Practice)	Project Coordinator/ Nurse Researcher	health service improvement
Karen Kasper	RN, BN, MN (Leadership)	Project Coordinator/ Nurse Researcher	health service improvement
Prue McRae	BPhty, GradDipManip Therapy	EB/Falls Coordinator	gerontology, health service research
Satyan Chari	BOccThpy, MastersOccThpy, PhD candidate	Program Coordinator - Falls Risk	falls prevention

Supervised postgraduate students

Name	Current studies	Research topic
McRae P	MPhil	Interdisciplinary care needs of older surgical patients
Chari S	PhD	The role of extrinsic factors in causation and prevention of falls and injury from falls among older people in institutional care

Awards and achievements

Award	Event	Recipient
Office of Health and Medical Research Health Research Fellowship 2010-2015		Chari S

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
McRae P, Mudge A, Walker P, Dungleison N, Gardiner R, Williams H, de Ruiter C, Cruikshank M, Barnbrook C, Woollett K, Slaughter B	Identifying interdisciplinary care needs of older surgical patients	RBWH Research Grant	\$30,000	2011

Metro North Mental Health Services



Metro North Mental Health Services

Overview

Metro North Mental Health Services employs more than 800 staff and has an annual budget in excess of \$120 million. 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 at Fortitude Valley, Herston, Rosemount, Aspley, Cherside, Pine Rivers, Nundah, Caboolture and Redcliffe with outreach services to Kilcoy.

Metro North Mental Health provides services across the age spectrum from perinatal, child and adolescent, adult to older persons and a range of specialist services including consultation liaison, forensic, addiction, eating disorders and community mental health including an inner city homeless team. There are 300 inpatient beds including 164 acute inpatient beds with 75 beds at RBWH, 60 beds at TPCH and 29 beds at Caboolture, a 12-bed adolescent unit at RBWH, 20 medium secure beds at TPCH, 60 community care beds at Rosemount, Pine Rivers and Redcliffe, 24 long stay psycho-geriatric beds at Brighton and Redcliffe and 20 state-wide alcohol and drug detoxification beds at RBWH. A further 20 acute care beds and 23 medium secure beds are currently under construction at Caboolture Hospital and will be open early in 2012.

Metro North Mental Health - RBWH provides secondary and tertiary assessment treatment services. It is the busiest Mental Health Service in Queensland and boasts research and teaching links with The University of Queensland, Queensland University of Technology, Griffith University and Australian Catholic University.

We have strengthened our research base considerably this year, developing an interdisciplinary team with complementary expertise and skills. Professor Michael Breakspear (Chair of the QIMR/RBWH Mental Health Research) and Dr James Scott, (Senior Lecturer in Early Psychosis at The University of Queensland and Senior Staff Psychiatrist at RBWH) have been joined by Dr Sue Patterson and Ms Nicole Goulter. Sue who has been appointed as Principal Research Fellow (Mental Health) trained as a psychologist in Queensland and worked clinically and in management before taking up a research career. She comes to us after six years conducting health services research with Imperial College London, with expertise in mixed-methods and qualitative research. Nicole, a nurse educator with substantial mental health clinical experience, was appointed to the Nursing Clinical Academic Fellowship in December 2011. The fellowship is a joint appointment with QUT. Working collaboratively the team are promoting a culture of inquiry and continuous learning within the mental health services. As appropriate to their skills, the research team members are supporting managers and clinicians to incorporate evidence and evaluation in service development and delivery.

Moving into 2012, we will continue to explore opportunities to collaborate with other RBWH departments, staff and consumers and external partners to ensure Metro North Mental Health - RBWH plays a central role in development of services needed to meet the complex needs of our client group.

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 Daghish**
Director, Addiction Psychiatry
- **Dr Vickas 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



Assoc. Prof. Brett Emmerson
Executive Director



Lisa Fawcett
Nursing/Operations
Director (inpatient)

Department of Consultation Liaison Psychiatry

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unavailable

Dr John Linnane

Director, Consultation
Liaison Psychiatry

Overview

The Consultation Liaison Psychiatry Department of RBWH provides mental health services across the non-mental health divisions of the hospital. Staff in the department are actively involved in clinical research for Cancer Care Services and the Department of Neurology in particular.

Research relates to psychosocial aspects of cancer including the impact of maternal cancer on children. Other studies are randomised trials of psychosocial interventions to improve quality of life and mood in patients with cancer, or patients who have been treated for cancer and have high anxiety about recurrence of cancer.

Research staff

Name	Qualifications	Position	Interests/specialities
Jane Turner	MBBS, PhD, FRANZCP	Assoc. Prof. Discipline of Psychiatry, UQ	psycho-oncology
Dr Sally Matheson	MBBS, FRANZCP	Consultant Psychiatrist	perinatal psychiatry
Dr Rodney Marsh	MBBS, FRANZCP	Consultant Psychiatrist	neuropsychiatry
Dr Jennifer Taggart	MBBS, FRANZCP	Consultant Psychiatrist	neuropsychiatry, Hepatitis C
Jane Whitford	RN, RPN	Clinical Nurse Consultant	perinatal psychiatry

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
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, National Breast Cancer Foundation	\$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	\$718,021	2011-2014
Turner J, Kelly B, Clarke D, Yates P, Aranda S, Jolley D, Chambers S, Hargraves M, McFadyen L	PROMPT study (Promoting Optimal Outcomes in Mood through Psychosocial Therapies: A randomised trial) Application of tailored therapies to reduce distress in cancer patients: A randomised trial	Beyondblue	\$591,305	2010-2012
O'Connorm M, Monteresso L, Jiwa M, Turner J, Halkett G, Garton A	The experiences and psychosocial needs of young children who have a mother living with cancer: A qualitative study	Beyondblue	\$226,846	2010-2012
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 Beyondblue	\$594,310	2009-2012

Publications

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* 2011. DOI: 10.1111/j.1365-2354.2011.01288.

Turner J, Kelly B, Clarke D, Yates P, Aranda S, Jolley D, Hargraves M, Chambers S, McFadyen L. A randomised trial of a psychosocial intervention for cancer patients integrated into routine care: The PROMPT study (promoting optimal outcomes in mood through tailored psychosocial therapies). *BMC Cancer*. 2011;11:48 www.biomedcentral.com/1471-2407/11/48

Eating Disorder Service

Overview

The Eating Disorder Service is a tertiary service which serves as the peak service in Queensland for the treatment of eating disorders for adults. The RBWH Eating Disorder Service incorporates the Eating Disorders Outreach Service (EDOS) and is staffed by a multidisciplinary team that includes a psychiatrist, registrar, nurses, dietitians, psychologists, social workers, and assistants in nursing.

The service has five key aspects to service delivery:

- Five tertiary beds in the RBWH Mental Health Centre
- Outpatient assessment and treatment recommendations
- Outpatient treatment using cognitive behaviour therapy – enhanced (CBT-e)
- Statewide consultation/liaison services
- Education and professional development.

The service maintains a high regard for research and evaluation, and has embarked on an agenda to further develop a culture of research and evaluation among staff and across the service. The goal of this agenda is to support staff in the active participation, presentation, and publication of their work in an effort to share our activities and findings with the broader eating disorder community. Strategies for achieving this goal are as follows:

- Hold monthly research and evaluation meetings within the Service to maintain a research culture within the service, to support staff in their activities, and to identify key projects and funding opportunities.
- Establish and maintain an active relationship with the Principal Research Fellow in Mental Health.
- Support staff to actively participate in undertaking research in both clinical practice and service evaluation, and further encouraging this work to be presented at conferences and published in peer reviewed journals.
- Establish relationships and forge partnerships with a number of Queensland-based universities in an effort to further develop the opportunity and capacity to participate in research and evaluation.
- Develop processes that foster the engagement of students with higher level degrees to participate in research and evaluation through the Eating Disorder Service
- Forge collaborations with external agencies and non-governmental organisations for research and evaluation projects.

It is trusted that in working towards, and achieving these goals, the Eating Disorders Service will play a greater role in contributing to the knowledge base and literature in the field of eating disorder treatment.



Dr Warren Ward
Director, Eating Disorder Service

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Warren Ward	MBBS FRANZCP, GradCertMgmt	Director, Eating Disorder Service	eating disorders
Elaine Painter	BNSc, BA, MPHc	Team Manager, EDOS	eating disorders, national advocacy
Erin Anderson	BA (Hons Psych), MCLin (Psychology)	Senior Clinical Psychologist	eating disorders, cognitive behaviour therapy, metacognition
Rachel Bellair	BA (Hons Psych), PhD (Psychology)	Senior Clinical Psychologist	eating disorders, team functioning
Johanna Dalton	BNurs, MH (Nurs)	Clinical Nurse	eating disorders, supportive meal therapy
Amanda Davis	BSc, PGDipNutDiet	Senior Dietitian	eating disorders, patient management
Carmel Fleming	BSocWk (Hons), MSW	Educator; Senior Social Worker	eating disorders, cognitive behaviour therapy
Shane Jeffrey	BSc, GradDipNutrDiet	Senior Dietitian	eating disorders, weight management, service evaluation

Research staff

Name	Qualifications	Position	Interests/specialities
Kathryn Peisker	BSc (Nurs), DipFamIntWk	Nurse Unit Manger	eating disorders
Natalie Rhodes	BA (Psychology)	Senior Psychologist	eating disorders, cognitive behaviour therapy
Michelle Roberts	BSocWk, GradDipLaw	Senior Social Worker	eating disorders, families
Catherine Vellacott	BNurs	Clinical Nurse Consultant	eating disorders, inpatient management

Supervised postgraduate students

Name	Current studies	Research topic
Vann A	PhD	Metacognition in eating disorders

Hospital Alcohol and Drug Service

Overview

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

The inpatient arm of the Service comprises a 20-bed ward admitting approximately 1,200 admissions per year, with the majority being for alcohol detoxification. The consultation-liaison service provides advice and assistance to the whole of RBWH, with a similar number of referrals each year.

The Service has particularly close links with the Department of Emergency Medicine, the Psychiatric Emergency Clinic, the Chronic Pain Team and general Mental Health Services. It also provides 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.



Dr Mark Daghli
Director, Addiction Psychiatry

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Mark Daghli	BSc (MedSci), MBChB, MRCPsych, MD, FRANZCP	Director, Addiction Psychiatry; Senior Lecturer	addiction, neuroimaging
Assoc. Prof. Bruce Lawford	MBBS, FRANZCP, FChAM	Visiting Medical Officer; Assoc. Prof. QUT	addiction, anxiety, mood disorders, schizophrenia, genetics
Dr Robert Bell	BMed, FRANZCP, FChAM	Visiting Medical Officer; Senior Lecturer, UQ	nicotine addiction
Michael Wilson	BEd, RN, RPN	Research Clinical Nurse Consultant	nicotine addiction

Supervised postgraduate students

Name	Current studies	Research topic
Low J	DClin Neuropsych	Cognitive functioning during alcohol detoxification
Man-Choi Ho A	PhD	The interactions between personality, genetics, hormone responses and alcohol dependence
Dissabandara L	PhD	Genetics of heroin dependence

Publications

Dissabandara LO, Loxton N, Dias S, Daghli MRC, Stadlin A. Psychometric properties of three personality inventories translated to Sinhalese. *SLJ Psychiatry*. 2011;2(1):13-17.

Voisey J, Swagell CD, Hughes IP, Lawford BR, Young RM, Morris CP. A novel SNP in COMT is associated with alcohol dependence but not opiate or nicotine dependence: A case control study. *Behav Brain Funct*. 2011;7:51.

White MJ, Young RM, Morris CP, Lawford BR. Cigarette smoking in young adults: The influence of the HTR2A T102C polymorphism and punishment sensitivity. *Drug Alcohol Depend*. 2011;114(2-3):140-6.

Domschke K, Lawford B, Young R, Voisey J, Morris CP, Roehrs T, Hohoff C, Birosova E, Arolt V, Baune BT. Dysbindin (DTNBP1): A role in psychotic depression? *Journal of Psychiatric Research*. 2011;45(5):588-95.

Inner North Brisbane Mental Health Service



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

Overview

Inner North Brisbane Mental Health Service provides mental health assessment treatment services to the 300,000 adults who reside in the Metro North Mental Health - RBWH catchment areas. This 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 2,000 hostel/boarding house beds, three large homeless shelters and two private psychiatric hospitals who frequently refer behaviourally-disordered patients.

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/inpatient 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.

The Service has also established service-wide cognitive behaviour therapy, dialectic behaviour therapy, healthy living and psycho-education programs.

The recent focus has been on improving linkages with primary care, drug and alcohol service, employment services and non-government organisations, particularly those providing disability support, social networking and accommodation.

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Brett Emmerson	MBBS, MHA, FRANZCP, FRACMA	Executive Director	health services research
Dr Vickas Moudgil	MBBS, FRANZCP	Clinical Director, Inner North Brisbane Mental Health Service	health services research
Dr James Scott	MBBS, PhD, FRANZCP	Senior Lecturer in Early Psychosis; Senior Staff Specialist	psychosis, autism, psychological trauma
Ms Nicole Goulter	BN, MMHN, MASC (current)	Clinical Academic Fellow (Nurse Researcher)	mental health, nursing, models of care
Dr Sue Patterson	BSc (Hons), GradCertHlth, DIC, PhD	Principal Research Fellow (Mental Health)	health systems, service delivery, methodology
Dr Justin O'Brien	MBBS, FRANZCP	Consultant Psychiatrist	
Dr Maneesh Dhingra	MBBS, FRANZCP	Consultant Psychiatrist	
Dr Geoffrey Leong	MBBS, FRANZCP	Consultant Psychiatrist	
Dr Goran Zdral	MBBS, FRANZCP	Consultant Psychiatrist	acute care
Dr Vinit Sawhney	MBBS, FRANZCP	Consultant Psychiatrist	homelessness
Dr Anne Stark	MBBS, FRANZCP	Consultant Psychiatrist	acute care
Dr Michael O'Sullivan	MBBS, FRANZCP	Consultant Psychiatrist	
Dr Dilprassen De Silva	MBBS, FRANZCP	Consultant Psychiatrist	
Dr Hugh Levien	MBBS, FRANZCP	Consultant Psychiatrist	
Nathan Dart	RN, RPN, BNurse, MMHN	Nurse Manager	workforce
Glen Williams	BOccThy	Manager, Resource Team	
Kylie Carney	BHSc (OT) (Hons), GradCert (MH Administration)	Manager, Southern Team	
Dianne Tarrant	RPN, MHSc, PGDipMHNsg, BASocSci (Nsg & Psych), DipManagement, CertClinSup	Manager, Homeless Health Outreach Team	
Andrew Patrick	BNurse, PostGradDip (Mental Health)	Manager, Northern Team	
Helen Corbett	BNurse, RPN, PostGrad Dip (Community Mental Health), Credentialed Mental Health Nurse	Nurse Unit Manager, Community Care Unit and Mobile Intensive Rehabilitation Team	

Research staff

Name	Qualifications	Position	Interests/specialities
Marion Gibbons	RPN	Team Manager, Acute Care Team; Clinical Nurse Consultant	
Paul Ruffell	RMN	Clinical Nurse Consultant, Homeless Health Outreach Team	
Gerard McLernon	BNurse, RMN, RGN	Clinical Nurse Consultant, Southern Team	
Peter Turrell	BNurse, MMHN	Clinical Nurse Consultant, Northern Team	
Janis Parish	BSW	Advanced Social Worker	
Michelle Taylor	BOT, MA Research	A/Advanced Occupational Therapist	
Anne Gordon		Clinical Psychologist	social cognition and psychosis
Emily O'Leary	PhD (Psychology Science), Post GradDip (Clinical Psychology), BSc(Psychology)(Hons1)	Advanced Psychologist	

Supervised postgraduate students

Name	Current studies	Research topic
Castellini J	PhD	Emotional regulation in adolescents
Mills N	PhD	The role of cytokines in adolescent depression
Capra C	PhD	An internet-based treatment program for young people with odd or unusual thoughts and/or experiences
Wong A	PhD	Distinguishing dissociative identity disorder from schizophrenia

Achievements and awards

Award	Event	Recipient
Sir Ian McFarlane Award	2011 RBWH Healthcare Symposium	Goulter N

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Scott J, Dark F, Capra C, Stathis S, Turner K, McGrath J	Does exposure to childhood trauma alter the presentation and clinical outcomes of patients with early psychosis?	RBWH Foundation	\$36,000	2011
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 (AI)	Genetic and environmental contributions to the life course of common mental disorders	NHMRC	\$1,474,526.60	2011-2014

Publications

- Duhig MJ, Saha S, Scott JG. Efficacy of risperidone in children with disruptive behavioural disorders. *Journal of Paediatrics and Child Health*. 3 November 2011. (E-pub ahead of print)
- Emmerson B, Moudgil V, Woodbridge A, Burrows D, Kingswell B, Kubler P, McMahon K. A new clinical protocol for the 'Pharmacological management for acute behavioural disturbance'. *Australasian Psychiatry*. 2011;19(5):406-409.
- Emmerson, B., Norrie, P., Patton, M., O'Connor N. 'To be or not to be a Clinical Director'. *Australasian Psychiatry*. *Australasian Psychiatry*. 2011;19(5):415-419.
- Goulter N. *Simulation in Mental Health Education*, ANJ. October 2011.
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- McGee T, Scott J, McGrath J, Williams G, O'Callaghan M, Bor W, Najman, J. Young adult problem behaviour outcomes of adolescent bullying. *Journal of aggression, conflict and peace research*, 2011;3(2):115-120.
- Saha S, Scott J, Varghese D, McGrath J. Socio-economic disadvantage and delusional-like experiences: A nationwide, population-based study. (accepted 21/09/2011) *European Psychiatry*. 2011.
- Saha S, J Scott, A Johnston, T Slade, D Varghese, G Carter, J McGrath. The association between delusional-like experiences and suicidal thoughts and behaviour. *Schizophrenia Research*, 2011;132(2-3):197-202.
- Saha S, Scott JG, Varghese D, Degenhardt L, Slade T, McGrath JJ. The association between delusional-like experiences, and tobacco, alcohol or cannabis use: a nationwide population-based survey. *BMC Psychiatry*. 2011;11(1):202.
- Saha S, Scott J, Varghese D. & McGrath J. The association between general psychological distress and delusional-like experiences: A large population-based study. *Schizophrenia Research.*, 2011;127(1-3):246-251.
- Saha S, Scott J, Varghese D, McGrath J. The association between physical health and delusional-like experiences: a general population study *PLoS One*. 2011; 6 4:e18566-1-e18566-5.
- Saha S, Varghese D, Slade T, Degenhardt L, Mills K, McGrath J, Scott J. The association between trauma and delusional-like experiences *Psychiatry Research*. 2011;189(2):259-64.
- Varghese D, Scott J, Welham J, Bor W, Najman J, O'Callaghan M, Williams G, McGrath J. Psychotic-like experiences in major depression and anxiety disorders: A population-based survey in young adults. *Schizophrenia Bulletin*. 2011;37(2):389-393.
- Varghese D, Saha S, Scott J, Chan R, McGrath J. The association between family history of mental disorder and delusional-like experiences: A general population study. *American Journal of Human Genetics Part B: Neuropsychiatric Genetics*. 2011;156B 4:478-483.
- 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*. 2011.

Older Persons' Mental Health Service

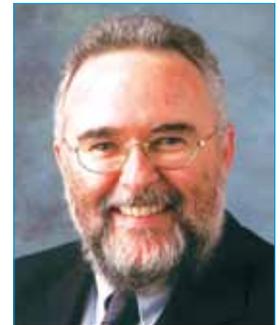
Overview

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 University of Queensland (UQ) Discipline of Psychiatry and is actively engaged in teaching students of several disciplines (medical, nursing, psychology, occupational therapy, social work).

Personnel of 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, NHMRC, the Wicking Trust, RBWH Foundation and several private benefactors. OPMHS Director, Professor Gerard Byrne, 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 Professor Byrne and Professor Nancy Pachana, has now been translated into more than a dozen languages and is in widespread use around the world.



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

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Gerard Byrne	BSc, MBBS, PhD, FRANZCP	Director, Older Persons' 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
Ms Liz Arnold	BNursing	Research Coordinator	Alzheimer's disease
Ms Lyn Isbel	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

Supervised postgraduate students

Name	Current studies	Research topic
Goncalves D	PhD	Anxiety in older people
Murphy J	PhD	Treatment resistant depression
Matheson S	PhD	Neonatal SSRI discontinuation syndrome
Lo HY	PhD	Lifestyle factors and cognitive decline
Higgs C	PhD	Vesicular glutamate & 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

Supervised postgraduate students

Name	Current studies	Research topic
Miloyan B	PhD	Executive function during normal ageing
Mills N	PhD	Genetics of cytokine activity in children and adolescents
Maguire P	PhD	Health literacy in people with chronic psychosis
McVie EN	PhD	An analysis of the decisions of the Queensland Mental Health Court
Yasky J	PhD	TBC
Laki P	MPhil	Physical health of dementia carers
Barton J	PhD	Neurophysiology of the blind spot

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
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
Lautenschlager N, Cox K, Almeida O, Flicker L, Ames D, Byrne G, Hill G	A multicentre randomised clinical trial of physical activity for the treatment of patients with mild Alzheimer's disease.	NHMRC 572563	\$687,100	2009-2011
Pachana N, Wilson, Byrne G, Tilse C	Validation of a competency assessment method for persons with dementia	NHMRC 511119	\$547,250	2009-2011

Publications

Almeida OP, Alfonso H, Pirkis J, Kerse N, Sim M, Flicker L, Snowdon J, Draper B, Byren GJ, Goldney R, Lautenschlager NT, Stocks N, Scazufca M, Huisman M, Araya R, Pfaff J. A practical approach to assess depression risk and to guide risk reduction strategies in later life. *International Psychogeriatrics*. 2011;23(2):280-291.

Broughton M, Smith ER, Baker R, Pachana NA, Angwin AJ, Humphreys MS, Mitchell L, Byrne GJ, Copland DA, Gallois C, Hegney D, Chenery HJ. Evaluation of a caregiver education program to support memory and communication in dementia: A controlled, pretest-posttest study with nursing home staff. *International Journal of Nursing Studies*. 2011;36(9):1436-1444. [E-pub ahead of print 2011 Jun 12]

Byrne GJ, Goncalves DC, Arnold E, Appadurai K. Case finding in dementia: Comparative utility of three brief instruments in the memory clinic setting. *International Psychogeriatrics*. Jan 12. [E-pub ahead of print 2011]

Cyarto EV, Cox KL, Almeida OP, Flicker L, Ames D, Byrne GJ, Hill KD, Beer CD, Logiudice D, Appadurai K, Irish M, Reneha E, Lautenschlager NT. The fitness for the ageing brain study II (FABS II): Protocol for a randomised, controlled, clinical trial evaluating the effect of physical activity on cognitive function in patients with Alzheimer's disease. *Trials*. 2010;11:120 [PMID: 21143943]

Frick A, Robins Wahlin T-B, Pachana NA, Byrne GJ. Relationships between the National Adult Reading Test and memory. *Neuropsychology*. 2011;25:397-403.

Goncalves DC, Guedes J, Fonseca AM, Pinto FC, Martin I, Pachana NA, Byrbe GJ. Attitudes, knowledge, and interest: Preparing university students to work in an aging world. *International Psychogeriatrics*. 2011;23(2):315-321.

Goncalves DC, Byrne GJ. Who worries most? Worry prevalence and patterns across the lifespan. *International Journal of Geriatric Psychiatry*. 2012 Feb 28. Doi: 10.1002/gps.3788. [E-pub ahead of print]

Goncalves DC, Byrne GJ. (2012) Sooner or later: Age at onset of Generalised Anxiety Disorder in older adults. *Depression and Anxiety* 29(1):1019-1029. [accepted for publication 02/09/2011] doi: 10.1002/da.20881 [E-pub 2011 Sep 2]

Goncalves DC, Byrne GJ. Interventions for Generalised Anxiety Disorder in older adults: Systematic review and meta-analysis. *Journal of Anxiety Disorders*. 2012;26(1):1-11. [E-pub ahead of print 19/08/2011].

Publications

Hollingworth S, Lie DC, Siskind DJ, BYRNE GJ, Hall WD, Whiteford HD. Psychiatric drug prescribing in elderly Australians: Time for action. *Australian and New Zealand Journal of Psychiatry*. 2011;45:705-708.

Hollingworth S, Byrne GJ. Prescribing trends in cognition enhancing drugs in Australia. *International Psychogeriatrics*. 2011;23(2):238-245.

Kavanagh DJ, Trembath M, Shockley N, Connolly J, White A, Isailovic A, Young RMcd, Saunders JB, Byrne GJ, Connor J. The drug check problem list: A new screen for substance use disorders in people with psychosis. *Addictive Behaviors*. 2011;36:927-932.

Lo AHY, Pachana NA, Byrne GJ, Humphreys MJ. Test-retest reliability and practice effects of the Wechsler Memory Scale-III. *Journal of Neuropsychology*. 2012; Jan 12. Doi: 10.1111/j.1748-6653.2011.02023.x [E-pub ahead of print]

Lo AHY, Pachana NA, Byrne GJ, Sachdev PS, Woodman RJ. Relationship between changes in body weight and cognitive function in middle aged and older women. *International Journal of Geriatric Psychiatry*. Oct 11. [E-pub ahead of print] DOI:10.1002/gps.2797

Maguire PA, Reay RE, Looi JCL, Cubis J, Byrne GJ, Raphael B. Neither the internist nor the internet: Use of and trust in health information sources by people with schizophrenia. *Australian and New Zealand Journal of Psychiatry*. 2011;5:489-497.

Murphy JA, Byrne GJ. Prevalence and correlates of the proposed DSM-5 diagnosis of Chronic Depressive Disorder. *Journal of Affective Disorders*. 2012;Feb 29. [E-pub ahead of print].

Pachana NA. Development and validation of a short form of the Geriatric Anxiety Inventory. *International Psychogeriatrics*. 2011;23(1):125-131.

Robins Wahlin T-B, Byrne GJ (2011) Cognition in Huntington's disease. In Tunali NE (Ed.) *Huntington's Disease*. Rijeka, Croatia: InTech [book chapter]

Smith ER, Broughton M, Baker R, Pachana NA, Angwin AJ, Humphreys MS, Mitchell L, Byrne GJ, Copland DA, Gallois C, Hegney D, Chenery HJ. Memory and communication support in dementia: Research-based strategies for caregivers. *International Psychogeriatrics*. 2011;23(2):256-263.

Robins Wahlin T-B, Byrne GJ. Personality change in Alzheimer's disease: A systematic review. *International Journal of Geriatric Psychiatry*. 2011; 26:1019-1029.

Sarris J, Goncalves DC, Robins Wahlin T-B, Byrne GJ. Complementary medicine use by middle-aged and older Australian women: Personality, mood and anxiety factors. *Journal of Health Psychology*. 2011;16:314-321.

Smith ER, Broughton M, Baker R, Pachana NA, Angwin AJ, Humphreys MS, Mitchell L, Byrne GJ, Copland DA, Gallois C, Hegney D, Chenery HJ. Memory and communication support in dementia: Research-based strategies for caregivers. *International Psychogeriatrics*. 2011;23(2):256-263.

Queensland Forensic Mental Health Service



Dr Ed Heffernan

Director, Queensland Forensic
Mental Health Service

Overview

The Queensland Forensic Mental Health Service (QFMHS) (RBWH) aims to be a leading research authority on people with a mental illness who are 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 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 (e.g. universities) and research bodies, and the service has strong relationships with universities such as The University of Queensland, 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 (e.g. 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.

Research staff

Name	Qualifications	Position	Interests/specialities
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	BSS (Psych), PgDipPsych, DPsych (Forensic)	Program Coordinator, Postgraduate Training	denial in child sexual offenders, quality of admission in child sexual offenders across the judicial system: offender, victim and offence characteristics
Dr Bob Green	BSocWk, MSW, PhD (Psych)	Program Coordinator, Statewide Community Risk Management Program	risk assessment, arson and reoffending
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, CertForensic Psych, GradDipForBehSci	Forensic Psychiatrist	court liaison assessment screen for stalkers
Tamara Smith	PhD candidate	A/Senior Psychologist	intellectual disability
Dr Sue Boyce	BSocSci, GrapDipPsych, DPsych-Forensic	Psychologist, Community Forensic Outreach Service	high-risk psychotic phenomena
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, GradDipMental Health, MSocialSc (Health)	Program Coordinator, Research and Evaluation	sedating psychotropic medication in custodial settings, forensic mental health
Robert Pedley		Continuity of Care Coordinator	transition of mentally ill prisoners returning to the community

Research staff

Name	Qualifications	Position	Interests/specialities
Bernadette McDermott	BSc, Hons (Psych), PGCE, GradDip Health Management	Team Manager, CFOS	national forensic benchmarking
Bruce Hamilton	BArts (Psych), Psych(Hons), CertIV WTA	Program Coordinator, Statewide DFLO Network	detachment from the workplace

Supervised postgraduate students

Name	Current studies	Research topic
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, Griffith University	Psychological detachment from workplace
Smith T	PhD	The development and validation of the intellectual and cognitive impairment screen
Denton M (on secondment)	PhD	Transition of mentally ill prisoners returning to the community

Publications

McEwan TE, Pathé M, Ogloff JRP. Advances in stalking risk assessment. BehSciLaw. 2011.DOI:10.1002/bsl

Meloy JR, James DV, Mullen PE, Pathé MT, Farnham FR, Darnley B, Preston LF. Factors associated with escalation and problematic approaches toward public figures. Journal of Forensic Sciences, 2011; Issue supplement S128-135.

Green B, Stedman T, Chapple B, Griffin C. Criminal justice outcomes of those appearing before the Mental Health Tribunal: A record linkage study. Psychiatry, Psychology and Law. 2011;18:573-587.

QIMR/RBWH Mental Health Research Division



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

Overview

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.

Beneath such lofty goals are a bunch of often gruelling, specific and highly technical details to which we are also happy to devote time and endless cups of coffee.

We are funded in national collaborations by the Australian Research Council (Thinking Systems), The National Health and Medical Research Council (NHMRC), the Rotary Foundation and in a international collaboration with the James S. McDonnell Foundation (BrainNRG).

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Michael Breakspear	BA (Hons), BSc (Hons), MBBS, 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 postgraduate students

Name	Current studies	Research topic
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
Karim M	PhD	Brain networks in perceptual decision making
Lord A	PhD	Biology of depression
Hyett M	PhD	Course and expression of melancholia

Achievements and awards

Award	Event	Recipient
Fullbright Scholarship	NA	Langdon A
Clinical Researcher Award, Australian Society for Medical Research	NA	Breakspear M

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Breakspear M	Autonomous systems and control of the hand	Australian Research Council	\$3.3 million	2006-2011
Breakspear M	Orientation-specific modulation in human visual cortex	Australian Research Council	\$279,250	2009-2011
Breakspear M	Brain Network Recovery Group	James McDonnell Foundation, USA	\$3 million	2011-2014
Breakspear M	Identifying determinants of both the origins and progression of the depressive and bipolar (mood) disorders	NHMRC program grant (CI)	\$ 7 million	2012-2016

Publications

- Breakspear M, McIntosh AR. Networks, noise and models: Reconceptualising the brain as a complex, distributed system. *NeuroImage*. 2011;58:293-295.
- Ehnvall A, Mitchell PB, Hadzi-Pavlovic D, Loo C, Breakspear M, Wright A, Roberts G, Frankland A, Corry J. Pain and rejection sensitivity in bipolar depression. *Bipolar Disorders*. 2011;13:59-66.
- Freyer F, Roberts JA, Becker R, Robinson PA, Ritter P, Breakspear M. Dynamic mechanisms of multistability in the human alpha rhythm. *Journal of Neuroscience*. 2011;31:6353-6361.
- Kochan NA, Breakspear M, Valenzuela M, Slavin MJ, Brodaty H, Wen W, Trowell JN, Turner A, Crawford JD, Sachdev PS. Cortical responses to a graded working memory challenge predict functional decline in mild cognitive impairment. *Biological Psychiatry*. 2011;70:123-130.
- Kochan NA, Valenzuela M, Slavin MJ, McCraw S, Sachdev PS, Breakspear M. Impact of load-related neural processes on feature binding in visual working memory. *PLoS ONE*. 2011;6:e23960.
- Langdon AJ, Boonstra TW, Breakspear M. Multi-frequency phase locking in human somatosensory cortex. *Progress in Biophysics and Molecular Biology*. 2011;105:58-66.
- Mehrkanoon S, Breakspear M, Daffertshofer A, Boonstra TW. Generalised time-frequency coherency for assessing neural interactions in electrophysiological recordings. *Nature Precedings*. 2011; doi:10.1038/npre.2011.6615.1.
- Mitchell P, Frankland A, Hadzi-Pavlovic D, Roberts G, Corry J, Wright A, Loo C, Breakspear M. A comparison of depressive episodes in bipolar disorder and major depressive disorder within bipolar disorder pedigrees. *British Journal of Psychiatry*. 2011;199:303-309.
- Parker G, Barrett M, Breakspear M, Rees AM. The impact of detecting bipolar disorder in previously diagnosed unipolar patients at a specialist depression clinic. *The Journal of Nervous and Mental Disease*. 2011;199:419-422.
- Rubinov M, Bassett DS. Emerging evidence of connectomic abnormalities in schizophrenia. *Journal of Neuroscience*. 2011;31:6263-6265.
- Rubinov M, Sporns O. Weight-conserving characterisation of complex functional brain networks. *NeuroImage*. 2011;56:2068-2079.
- Rubinov M, Sporns O, Thivierge J-P, Breakspear M. Neurobiologically realistic determinants of self-organised criticality in networks of spiking neurons. 2011 *PLoS Comput Biol* 7: e1002038.
- Schultze-Kraft M, Becker R, Breakspear M, Ritter P. Exploiting the potential of three dimensional spatial wavelet analysis to explore the nesting of temporal oscillations and spatial variance in simultaneous EEG-fMRI data. *Progress in Biophysics and Molecular Biology*. 2011;105:67-79.

Nursing and Midwifery Services



Nursing and Midwifery Services

Overview

Nursing and Midwifery Services at Royal Brisbane and Women's Hospital employs more than 3,450 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 at RBWH, ensuring at all times that nursing 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.

Under the direction of the Executive Director, these specialist units provide the pivotal infrastructure required to support Nursing and Midwifery Services across the organisation and whole-of-hospital operations twenty-four hours a day, seven days a week.



Adj. Assoc. Prof. Lesley Fleming OAM
Executive Director, Nursing and Midwifery Services

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-Watkins (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 innovative and investigation of advanced, practice nursing roles.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Glenn Gardner	RN, PhD, FRCNA	Director, Centre of Clinical Nursing; Professor of Clinical Nursing	health services research and innovative nursing roles
Adj. Assoc. Prof. Joan Webster	RN, BA	Nursing Director, Research	evidence-based practice, infection control
Dr Carol Reid	PhD, MAppSc (Research), GradCert (Health Studies) Sexual Health, BHSc (Nursing)	Nurse Researcher	alcohol and drug nursing, sexual health and HIV nursing, community nursing

Supervised postgraduate students

Name	Current studies	Research topic
Foxcroft K	Master of Applied Science (Research)	Development of a Pregnancy Symptoms Index (PSI)
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
Marsh N	Master of Advanced Practice (Health Care Research)	Peripheral venous dressings and securement devices for preventing intravenous complications
Fleming L	PhD	Effectiveness of an evidence-based leadership program: A cluster randomised controlled trial
Dunne L	PhD	A mixed-method study to investigate the relationship between the number of social support people present during labour, women's perceptions and birth outcomes
Avery J	PhD	Investigating the influence of health literacy on self management of chronic disease
Haydon D	PhD	Exploration of health service for the subacute population in emergency department
O'Connell J	PhD	An exploratory study for the development of emergency department nurse practitioner specialist competency standards
Adams M	PhD	Palliative care in primary care
Brown L	PhD	Palliative care in renal disease
Fox A	PhD	Practice influencing sustainability of emergency department nurse practitioner
Clifford S	PhD	Continuing educational needs of rural and remote nurse practitioners

Supervised postgraduate students

Name	Current studies	Research topic
Almutairi A	PhD	The influence of a culturally diverse workforce on patient care and safety in Saudi Arabia
Goulter N	PhD	Evaluation of mental health nursing model of healthcare
Fenech M	PhD	Investigating facilitators and barriers to implementing nurse practitioner service
Jennings M	PhD	Evaluating specific patient outcomes from emergency nurse practitioner service

Awards and achievements

Award	Event	Recipient
Cecelia Brazil Award for the Best Nursing Research Paper	RBWH Healthcare Symposium	Webster J
Publication Achievement Award	Griffith University Passionate about Practice Conference	Webster J
Best Overall Presentation	Griffith University Passionate about Practice Conference	Gardner G

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
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	2011-2013
Chaboyer W, Rickard C, Aitken L, Webster J, Cooke M, Lukman T, Skuffham P, Doran D, Cullum N.	Centre for Research Excellence in Nursing interventions for hospitalised patients	NHMRC	\$2,499,380	2011-2015
Gardner G, O'Connell J	Pilot study for emergency department nurse practitioner competency development	OCNO	\$32,925	2011
Gardner G, Gardner A, Middleton S, Considine J, Hurst C, Della P, FitzGerald G	Nurse practitioners in emergency departments	ARC Linkage Grant	\$500,00 & \$270,00 partner contribution	2011
Reid C, Fenech M, Beckman K	A smoking cessation intervention for people with hepatitis C: A randomised, controlled trial	Hepatology Trust Fund, RBWH	\$10,000	2011

Publications

Chan RJ, Webster J. A Cochrane review on the effects of end-of-life care pathways: Do they improve patient outcomes? *Australian Journal of Cancer Nursing*. 2011;12(2):26-30.

Stevenson J, Anderson S, Veach K, Hine BA, Webster J, Fleming L, Osborne S. Occupancy data: Unravelling the mystery. *AJAN* 2011;29(2):5-12.

Chan RJ, Webster J, Marquart L. Information interventions for orienting patients and their carers to cancer care facilities. *Cochrane Database of Systematic Reviews* 2011, Issue 12.

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*. 2011 Nov 2.

Webster J, Gilles D, O'Riordan E, Sherriff, K, Rickard C. Gauze and tape versus transparent polyurethane dressings for central venous catheters. (*Cochrane Database of Systematic Reviews* 2011, Issue 10).

Moore Z, Webster J. Dressings and topical agents for preventing pressure ulcers Protocol. *Cochrane Data base of Systematic Reviews* 2011, Issue 10

Webster J, Davies H, Stankewicz M, Fleming L. Estimating the time involved in managing the 'unoccupied bed': A time and motion study. *Nursing Economics* November-December 2011;29(6):317-322.

Publications

Webster J, Osborne S. Home-based preoperative chlorhexidine bathing cloths to prevent surgical site infection. *Infection Control and Hospital Epidemiology* 2011;32:1047.

Webster J, Connolly A, Paton F, Corry J. The effectiveness of protocol driven, nurse-initiated discharge in a 23-h post surgical ward: A randomised, controlled trial. *International Journal of Nursing Studies* 2011;48:1173-1179.

Webster J, Nicholas C, Vellacott C, Cridland N, Fawcett L. Quality of life and depression following childbirth: Impact of social support. *Midwifery*. 2011;27:245-749.

Webster J, Wallis M, Stankiewicz M, Scuffman P. Negative pressure wound therapy for clean surgery; Protocol. *Cochrane Database of Systematic Reviews* 2011, Issue 8.

Gavin N, Webster J. Frequency of dressing changes for central venous catheters on catheter related infections. *Protocol Cochrane Database of Systematic Reviews* 2011, Issue 7.

Chan R, Webster J. A national roll out of an insufficiently evaluated practice: How evidence-based are our end-of-life care policies? *Journal of Palliative Medicine* 2011;14(7):802.

Lee N, Coxeter P, Beckmann MA, Webster J, Wright V, Smith T, Kildea S. Randomised non-inferiority controlled trial of a single versus a four intradermal sterile water injection technique for relief of continuous lower back pain during labour. *BMC Pregnancy and Childbirth* 2011;11:21 doi:10.1186/1471-2393-11-21.

Webster J, Coleman K, Gardner G, Mudge A, Stankiewicz M, Kirby J, Vellacott C, Horton-Beshers M, McClymont A. Pressure ulcers: Effectiveness of risk assessment tools. A randomised, controlled trial (the ULCER Trial). *BMJ Quality and Safety in Health Care*. 2011 20(4):297-306.

Flint AL, Webster J. The use of the exit interview to reduce turnover amongst healthcare professionals. *Cochrane Database of Systematic Reviews* 2011, Issue 1.

Seib C, Daghli M, Heath R, Booker C, Reid C, Fraser J. Screening for drug and alcohol use in pregnancy. *Midwifery*. 2011;September.

Reid C, Hall J, Boys J, Goodwin S, Chang A. The effectiveness of interventions which promote self-management for people with End Stage Renal Disease undergoing haemodialysis, *Systematic Review, JBI Library of Systematic Reviews* 2011:9(3)69-103.

Duffield C, Gardner G, Chang A, Fry M, Stasa H. 2011 National regulation in Australia: A time for standardisation in roles and titles. *Collegian*. 2011;18(2):45-49.

Surgical and Perioperative Services



Surgical and Perioperative Services



Dr Barry O'Loughlin
Executive Director, Surgical
and Perioperative Services;
Director, General Surgery



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 Sharon Kelly**
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 Steven Yang**
Director, Orthopaedic Surgery
- **Dr Stuart Bade**
Director, Plastics and Reconstructive Surgery
- **Dr Michael Rudd OAM**
Director, Professor Stuart Pegg Adult Burns Centre
- **Assoc. Prof. Cliff Pollard**
Director, Trauma Service
and Director, Queensland Trauma Registry
- **Dr Nigel Dungleison**
Director, Urology
- **Dr Jason Jenkins**
Director, Vascular Surgery

Department of Anaesthetics and Perioperative Medicine

Overview

Our vision, which commenced in 2005, continues to significantly progress towards a department of academic and clinical excellence. Our research infrastructure and staff capability continue to be our growing focus for research and quality with ongoing significant achievements. Currently:

- Dr Paul Gray has completed his PhD and continues to work with pain research.
- Niall Higgins is close to completion of his PhD on an adult education project concerning foreign trained doctors.
- Our part-time Research Nurse, Heather Reynolds, is continuing her PhD studies with successful confirmation of candidature. Her project is investigating the use of tissue adhesive to secure peripheral arterial lines.
- Dr Keith Greenland continues his work with airway management research and teaching programs in collaboration with Dr Linda Beckmann and Dr Hau Tan.
- Dr David Belavy continues his project, with ANZCA funding, assessing neurotoxicity associated with ultrasound gel.
- Dr Marc Maguire and Dr David Belavy in conjunction with Department of Emergency Medicine and Department of Intensive Care Medicine colleagues continue with their project Thrombelastographic evaluation of a massive transfusion protocol, which is funded by a \$20,000 RBWH Foundation Grant.
- Dr Adrian Chin and Dr David Belavy have continued with RBWH involvement in the Aurora Regional Anaesthetic Registry national project.
- Dr Rajesh Brijball continues his obesity research and central neuraxial studies.
- Dr Kersi Taraporewalla continues with adult education of foreign trained doctors and teaching courses at the RBWH Skills Development Centre.
- Dr Victoria Eley, Dr Kate Donovan and Dr Rajesh Brijball, in conjunction with Associate Professor Diann Eley (The University of Queensland), evaluating the antenatal assessment of morbidly obese parturients.
- Dr Victoria Eley, Dr Tisha Searles and Dr Kate Donovan have developed a patient information video for caesarean-section patients for use in a randomised controlled trial.

Our other range of clinical research activities continue in the areas of regional anaesthesia, burn pain and trauma. We continue to collaborate with QPharm, Australian e-Health Research Centre/CSIRO ICT Centre, Queensland University of Technology, The University of Queensland (UQ), Griffith University and Victoria University. We are now strengthening our passion for an academic, clinical and research based department and look forward to a progressive future.



Assoc. Prof. Michael Steyn
Director, Anaesthetics and Perioperative Medicine

Research staff

Name	Qualifications	Position	Interests/specialities
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
Dr Keith Greenland	MBBS, MD, FANZCA, FHKCA	Senior Staff Specialist	difficult airway management
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 Anaesthetist	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
Niall Higgins	RN, GCerteH, GDipeH, PhD Candidate	Manager e-Learning Clinical Skills Development Service	international medical graduate specialists education

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Rudolf Van der Westhuizen	MBBS, FANZCA	Staff Specialist	QPharm drug trials
Dr Phil Cumpton	MBBS (Syd), 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
Dr Michelle Roets	MBChB, DA, FRCA, FANSCA, MSc	Staff Specialist	equipment design, intra-operative cell salvage
Dr Ben Zugai	MBBS, FANZCA	Staff Specialist	difficult airway management

Supervised postgraduate students

Name	Current studies	Research topic
Higgins N	PhD	Adult education of foreign trained doctors
Reynolds H	PhD	Tissue adhesive to secure peripheral arterial lines

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Maguire M, Paratz J, Hurn C, Belavy D, Samoilenko S	Thrombelastographic evaluation of a massive transfusion protocol	RBWH Foundation Grant	\$20,000	2011
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 \$115,000	2010-2011 2011-2012 2012-2013
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

Baker PA, Weller JM, Greenland KB, Riley RH, Merry AF. Education in airway management. *Anaesthesia* 2011;66:101–11.

Belavy D, Obermair A. Epidural anaesthesia and ovarian cancer survival. *Br J Anaesth Electronic letter*. 2011 www.bja.oxfordjournals.org/80/cgi/eletters/aer055v1#7341

Belavy D, Ruitenber M, Brijball R. A feasibility study of real-time three dimensional ultrasound for epidural catheter insertion. *British Journal of Anaesthesia*. 2011.

Douglas A, Altukroni M, Udy AA, Roberts MS, Taraporewalla K, Jenkins J, Lipman J, Roberts JA. The pharmacokinetics of cefazolin in patients undergoing elective and semi-elective abdominal aortic aneurysm open repair surgery. *BMC Anesthesiol*. 2011 Feb 22;11:5.

Greenland K, Brown AFT. Evolving role of video laryngoscopy for airway management in the emergency department. *Emerg Med Australas* 2011;23 Oct (5):521-524.

Greenland KB, Acott C, Segal R, Goulding G, Riley RH, Merry AF. Emergency surgical airway in life-threatening acute airway emergencies – why are we so reluctant to do it? *Anaesth Intens Care*. 2011;Feb;39:578-584.

Greenland KB, Acott C, Segal R, Riley RH, Merry A. Delayed airway compromise following extubation of adult patients who required surgical drainage of Ludwig's angina: A comment on three coronial cases. *Anaesth Intens Care*. 2011;39:506-8. (Correspondence)

Greenland KB. The ramped position and its relationship to the two-curve theory. *Anesth Analg*. 2011;113:1524-1525. (Letter)

Department of Ear Nose and Throat Surgery



Dr Sharon Kelly
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/specialities
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

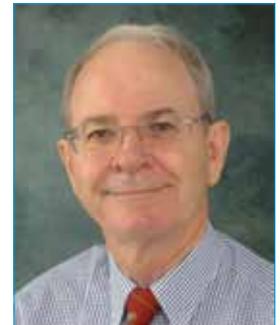
Overview

The Department of General Surgery is comprised of five units: breast/endocrine; laparoscopic/hepato-biliary-pancreatic; colorectal; upper GI and 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 the state of Queensland.

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Owen Ung	MBBS, FRACS	Assoc. Prof. Surgery (Head, Breast and Endocrine Unit)	breast and endocrine surgery



Dr Barry O'Loughlin
Executive Director, Surgical and Perioperative Services;
Director, General Surgery

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Gill G, Wetzig N, Collins J, Ung OA, Stockler M, Simes J	SNAC2: A randomised trial of extending sentinel node-based management to women with larger or multifocal breast cancers	NHMRC	\$1,185,213	2008-2012
Kilbreath SL, Refshauge KM, Simpson JM, Ward LC, Ung O, Beith J, French J, Koelmeyer L	Incidence and risk factors for lymphoedema secondary to breast cancer: A prospective cohort study.	Cancer Australia (and NBCF)	\$593,346	2009-2011

Publications

Lam A K-Y, Carmichael R, Buttner PG, Gopalan V, Ho Y-H, Siu SK. Clinico-pathological significance of synchronous carcinoma in colorectal cancer. *Am J Surg.* 2011;202(1):39-44.

Stillwell AP, Buttner PG, Siu SK, Russell RW, Stevenson ARL 2011. Preoperative risk stratification for mortality and major morbidity in major colorectal surgery. *Disease of Colon and Rectum.* 2011;52(7):1296-1303.

Nathanson LK, Brunott N, Cavallucci D. Adult esophagogastric junction distensibility during general anesthesia assessed with an endoscopic functional luminal imaging probe (EndoFLIP®). *Surg Endosc.* 2012;Apr;26(4):1051-5. E-pub 2011 Oct 25.

Bradbury R, Lambrianides A, O'Loughlin B, Manawwar S. Image of the Month - Quiz Case. *Arch Surg.* 2011;146(12):1445-1445.

O'Connell D, Kahn C, Simonella L, Sywak M, Boyages S, Ung O. Pathways to diagnosis do not explain all of the increase in thyroid cancer: Results of a population-based: A cross-sectional study. *Journal of Epidemiology and Community Health* Volume: 65 Pages: A283-A283 Aug 2011.

Tan M, Ung OA. Alternative approaches for oncoplastic. *Breast Surgery Ann Surg Oncol.* 2011;18:297-299.

Gough IR. The impact of reduced working time on surgical training in Australia and New Zealand. Review Article. *The Surgeon.* 2011;9:S1:8-9.

Gough IR, Collins JP, Wora-Urai N. A review of surgical education and training in Thailand – findings and recommendations. *The Thai Journal of Surgery. Special Article.* 2011;32:65-72.

Department of Neurosurgery



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, one university-appointed Neurosurgeon, five Registrars, four Residents, a specialised neurosurgical theatre and ward nursing staff, Physiotherapist, Occupational Therapist, Speech Pathologist, Dietician, Social Worker and Community Liaison Officer.

The neurosurgical ward has 30 beds.

Ongoing research includes:

- Blood brain barrier function in SAH and traumatic brain Injury (Winter C)
- Computational fluid dynamics for risk stratification in intracranial aneurysms (Russell J, Winter C)
- Remote tele-medicine in neurosurgery private practice (Johnson D)
- Advanced neuro-stimulation techniques for chronic lower back pain (Johnson D)
- Brain Cancer Research Group (Boyd A, Campbell S, Tolleson G, Winter C, Jeffree RL) - supply of clinical tissue and data
- Breast Cancer Research Group (Lakani S, Jeffree RL): Supply of clinical tissue and data and clinical input into translational research
- Biomedical imaging group. Australian e-Health Research Centre, CSIRO (Winter C, Jeffree RL) - patient recruitment and clinical input into translational research
- Family study of gliomas, Cancer Epidemiology Centre, Victoria (Severi G, Jeffree RL): Associate Investigator
- Australian Genetics and Clinical Outcomes of Glioma (Jeffree RL): Advisory Committee Member
- CATNON Phase III international clinical trial (Jeffree RL): Member of Australian Trial Committee.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Scott Campbell	FRACS	Director, Neurosurgery	neurosurgery
Dr Craig Winter	FRACS	Neurosurgery Staff	neurosurgery
Dr Gert Tolleson	FRACS	Neurosurgery Staff	neurosurgery
Dr Lindy Jeffree	FRACS	Neurosurgery Staff	neurosurgery
Dr Wendy Findlay	FRACS	Neurosurgery Staff	neurosurgery
Dr David Johnson	FRACS	Neurosurgery Visiting Medical Officer	neurosurgery
Dr Jason Papacostas		Senior Registrar	neurosurgery
Dr Norman Ma	MBBS	Senior Registrar	neurosurgery
Dr Ashish Jonathan		Fellow	neurosurgery
Dr Juliet Clayton		Fellow	neurosurgery
Dr Noman Zaheer	MBBS	Registrar	neurosurgery
Dr Holly Bernardi	MBBS	Registrar	neurosurgery

Publications

Pearce P, Tolleson G et al. Multifocal supratentorial diffuse glioma in a young patient with Olliers disease. *J Clin Neurosci.* 2011;19(3):477-8.

Siu T, Jeffree RL, Fuller J. Current strategies in the surgical management of cerebral metastases: An evidence-based review. *J Clin Neurosci.* 2011;18(11):1429-34.

Poulgrain K, Winter C, Lau Q et al. Papillary tumour of the pineal region. *J Clin Neurosci.* 2011;18(8):1007-17.

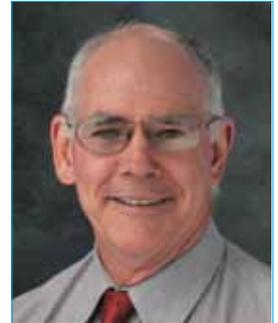
Department of Ophthalmology

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.



Dr John Harrison
Chair, Ophthalmology

Research staff

Name	Qualifications	Position	Interests/specialities
Dr John Harrison	MBBS (UQ), FRANZCO, FRACS	Chair, Ophthalmology	neuro-ophthalmogy
Assoc. Prof. Lawrence Lee	MBBS, FRACS, FRANZCO	Staff Specialist	medical and surgical etinal disease
Prof. Tim Sullivan	FRANZCO, FRACS, FRCOphth	Professor of Eyelid, Lacrimal and Orbital Disease	lithera study/thyroid eye disease

Publications

Vincent SJ, Vincent RA, Shields D, Lee GA. Comparison of intraocular pressure measurement between rebound, non-contact and Goldmann applanation tonometry in treated glaucoma patients. *Clinical and Experimental Ophthalmology*. 2011. E-pub

Lee GA. How adequate is your intraocular pressure? *Clinical and Experimental Ophthalmology*. 2011;39:95-96.

Liang S, Lee GA. Intrastromal injection of antibiotic in the management of recalcitrant phacoemulsification wound keratitis. *Journal of Cataract and Refractive Surgery*. 2011;37:960-962.

Fong A, Lee GA, ORourke P, Thomas R. Management of neovascular glaucoma with trans-scleral cyclophotocoagulation with diode laser alone versus combination trans-scleral cyclophotocoagulation with diode laser and intravitreal bevacizumab. *Clinical & Experimental Ophthalmology*. 2011;39:318-323.

Pappalardo J, Lee GA, Whitehead K (2011). Actinomycotic granule of the caruncle a case report. *Ophthalmic Plastic and Reconstructive Surgery*. 2011;27(4):e100-102.

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 Department over recent years. The consultants within the Department are frequently asked to lecture both locally, nationally and internationally.

Collaborations exist between the unit and the following research centres:

- The University of Queensland
- The University of Queensland Centre for Clinical Research
- Queensland University of Technology

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Frank Monsour	AM, RFD, FRACDS, PhD, MDSc, BDS (Hons)	Director, Oral and Maxillofacial Surgery	maxillofacial trauma, 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)	Staff Consultant	head and neck oncology, surgery, reconstruction
Dr Alan Gordon-Macleod	BDS (Lond), FDS RCS (Ed)	Staff Consultant	dentoalveolar surgery, 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, reconstructive surgery
Assoc. Prof. Neil Savage	MDSc, PhD, FFOP(RCPA), FICD	Oral Pathologist/Consultant	oral medicine, pathology
Prof. Patrick Warnke	DrMedHabil (MD, PhD, Germany), DrMedDent (DMD, Germany)	Fellow	tissue engineering and reconstructive surgery, trauma and infection
Dr Scott Borgna	MBBS, BDS	Registrar	
Dr Justin Collum	MBBS, BDS	Registrar	
Dr Phong To	MBBS, BDS	Registrar	
Pamela Pattel	RN, RM, BN (PostGrad), MPH	Clinical Nurse Consultant	
Su Smyth	RN		

Supervised postgraduate 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

Awards and achievements

Award	Event	Recipient
Best Consultant Presentation	ANZAOMS Annual Scientific Meeting	Batstone M
Best Poster	ANZAOMS Annual Scientific Meeting	Warnke PH

Research grants

Investigators	Project 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
Monsour FNT, Borgna S, Rahmel B	Road trauma-related head and neck injuries and outcomes -State two: A prospective study	RBWH Private Practice Trust Fund	\$50,000	2010-2014
Monsour FNT, Borgna S	Statewide maxillofacial surgery clinical audit and research database	Information Technology Services	TBC	2010-2011
Warnke PH	Multi-layered tissue engineering and nano-technology for stem cell delivery in degenerative diseases	Clem Jones Estate	\$3 million	2011-2015

Publications

Rahmel BB, Snow TM, Batstone MD. Fibular free flap with arteria peronea magna: The role of preoperative balloon occlusion. *J Reconstr Microsurg.* 2011;27(3):169-72.

Savage NW. Guest editorial. *Aust Dent J.* 2011;56(3):243.

Dudhia R, Monsour PA, Savage NW, Wilson RJ. Accuracy of angular measurements and assessment of distortion in the mandibular third molar region on panoramic radiographs. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2011;111(4):508-16.

Liu Q, Humpe A, Kletsas D, Warnke F, Becker ST, Douglas T, Sivananthan S, Warnke PH. Proliferation assessment of primary human mesenchymal stem cells on collagen membranes for guided bone regeneration. *Int J Oral Maxillofac Implants.* 2011 Sep-Oct; 26(5):1004-10.

Liu Q, Douglas T, Zamponi C, Becker ST, Sherry E, Sivananthan S, Warnke F, Wiltfang J, Warnke PH. Comparison of in vitro biocompatibility of NanoBone® and BioOss® for human osteoblasts. *Clin Oral Implants Res.* 2011;22(11):1259-64.

Vandrovcová M, Douglas T, Hauk D, Grössner-Schreiber B, Wiltfang J, Bačáková L, Warnke PH. Influence of collagen and chondroitin sulfate (CS) coatings on poly-(lactide-co-glycolide) (PLGA) on MG 63 osteoblast-like cells. *Physiol Res.* 2011;60(5):797-813. E-pub 2011 Aug 1

Pfeufer NY, Hofmann-Peiker K, Mühle M, Warnke PH, Weigel MC, Kleine M. Bioactive coating of titanium surfaces with recombinant human β -defensin-2 (rHu β D2) may prevent bacterial colonisation in orthopaedic surgery. *J Bone Joint Surg Am.* 2011;4;93(9):840-6.

Becker ST, Warnke PH, Behrens E, Wiltfang J. Morbidity after iliac crest bone graft harvesting over an anterior versus posterior approach. *J Oral Maxillofac Surg.* 2011;69(1):48-53. E-pub 2010 Oct 25.

Brady MA, Sivananthan S, Mudera V, Liu Q, Wiltfang J, Warnke PH. The primordium of a biological joint replacement: Coupling of two stem cell pathways in biphasic ultrarapid compressed gel niches. *J Craniomaxillofac Surg.* 2011;39(5):380-6.

Publications

Otto S, Abu-Id MH, Fedele S, Warnke PH, Becker ST, Kolk A, Mücke T, Mast G, Köhnke R, Volkmer E, Haasters F, Lieger O, Iizuka T, Porter S, Campisi G, Colella G, Ploder O, Neff A, Wiltfang J, Ehrenfeld M, Kreusch T, Wolff KD, Stürzenbaum SR, Schieker M, Pautke C. Osteoporosis and bisphosphonates-related osteonecrosis of the jaw: Not just a sporadic coincidence: A multicentre study. *J Craniomaxillofac Surg.* 2011;39(4):272-7.

Fischer J, Kolk A, Wolfart S, Pautke C, Warnke PH, Plank C, Smeets R. Future of local bone regeneration - Protein versus gene therapy. *J Craniomaxillofac Surg.* 2011;39(1):54-64.

Department of 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
- 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
- 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.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Steven Yang	MBChB, FRACS	Director, Orthopaedic Surgery	orthopaedics, spine
Prof. Kevin Tetsworth	MD, FRACS	Professor, Orthopaedic Surgery	orthopaedics, limb reconstruction
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

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Dr Steven Yang
Director, Orthopaedic Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
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

Department of Plastics and Reconstructive Surgery

Overview

The Department of Plastic and Reconstructive Surgery at the 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.



Dr Stuart Bade
Director, Plastics and Reconstructive Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
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	

Awards and achievements

Award	Event	Recipient
HJ Windsor Prize, Royal College of Surgeons England	NA	Potter M

Professor Stuart Pegg Adult Burns Centre

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Dr Michael Rudd OAM

Director, Professor Stuart
Pegg Adult Burns Centre

Overview

Research within the Professor Stuart Pegg Adult Burns Centre at the Royal Brisbane and Women's Hospital occurs as part of the Burns, Trauma and Critical Care Research Centre (BTCCRC), The University of Queensland.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Michael Rudd OAM	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, MMedSci	Deputy Director, Burns; Staff Specialist	physiologic response to burns/injury and its modulation
Dr Bhavik Patel	Surgical Registrar	MPhil student	blood stream infections in burns, antibiotic dosing in burns
Michelle Spermon	BOty	MSc student	scar maturation modulation
Anita Plaza	BPhty	Senior Physiotherapist	exercise and metabolism following burn injuries
Madonna Puglisi	BPhty	Physiotherapist	maximising function following burn injury
Brooke Hoskin	BPhty	Physiotherapist	investigation of modalities for improving compliance with phyiotherapy
Sharon Forbes	BSc, GradDipNutDiet	Dietician	energy and nutritional requirements during recovery from burns
Teresa Matthews	Administration Officer	Database Manager	database
Allison Hill	Registered Nurse	Audit Manager	audit
Lauren Moody	Registered Nurse	Audit Manager	audit

Supervised postgraduate students

Name	Current studies	Research topic
Patel B	MPhil	Therapeutic drug monitoring of beta lactam antibiotics in burn patients and 10-year retrospective study of blood stream infections in burns patients
Spermon M	MSc	Burns donor site scarring and compression garment therapy

Achievements and awards

Award	Event	Recipient
Neville Davis Prize	Surgical research at the RACS state meeting	Patel B
Merit Award for Best Presentation	ANZBA Annual Scientific Meeting	Patel B

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Muller M, Paratz J, Rudd M, Lipman J, Plaza A, Boots R	Metabolism and exercise post-burn injury	RBWH Foundation/ Wormald	\$40,000	2011
Puglisis M, Plaza A, Muller M, Mellor R	Is cutaneous electrical stimulation (TENS) useful in the management of donor site pain and improvement of function following a split skin graft	RBWH Foundation	\$30,000	2011
RuddM, Spermon M, Muller M	Improving donor site epithelialisation and scar maturation times following split skin grafting in burns patients: A novel research study using compression therapy	RBWH Foundation/ Wormald	\$40,000	2011
Muller M, Paratz J, Dulhunty J	Development and evaluation of an adult burns prevention program	Statewide Trauma Clinical Network	\$8,000	2010-2011
Paratz J, BootsR, Paterson D, Lipman, J, Muller M	Diagnostic markers of sepsis in burns	RBWH Foundation/ Wormald	\$18,000	2011
Paratz J, Druery M Plaxa A, Cohen J, Muller M Stockton K Younger J	IMPACT Improving psychological health and decreasing cardiovascular risk in patients post burns		\$40,000	2011
Muller M, Paratz J, Roberts J, Towsey K, Younger J, Dhanani J	Beta adrenergic blockade in burns patients	RBWH Foundation	\$35,000	2011
Lipman J, Paratz J, Muller M, Brown A	Improving outcomes post major trauma	UQ/NHMRC major equipment and infrastructure grant	\$52,000	2011

Publications

Rumbach AF, Ward EC, Cornwell PL, Bassett LV, Spermon ML, Plaza AL, Muller MJ. Dysphagia rehabilitation after severe burn injury: An interdisciplinary and multidisciplinary collaborative. *Journal of Medical Speech-Language Pathology*. 2011;19(1):25-34.

Adnan S, Paterson DL, Lipman J, Kumar S, Li J, Rudd M, Roberts JA. Pharmacokinetics of beta-lactam antibiotics in patients with intra-abdominal pathologies. A structured review. *Surg Infect SUR*. 2011-046R.

Trauma Service



Assoc. Prof. Cliff Pollard
Director, Trauma Service
and Director, Queensland
Trauma Registry

Overview

The Trauma Service coordinates and integrates the care of seriously injured patients between the multiple disciplines and services within RBWH. The Service was established in February, 2008. In critical situations, the Service may direct the immediate care of the patient, in liaison with the admitting team.

The Trauma Service provides a continuum of care to the severely injured by daily rounds, radiological reviews and the performance of tertiary surveys. This process results in the identification of missed injuries.

The Service will conduct in association with the Queensland Trauma Registry, the monthly Trauma Review Committee meeting, multidisciplinary quality assurance activity, and it also contributes to mortality and morbidity meetings within the various surgical disciplines.

Education is provided to RBWH, The University of Queensland (UQ) medical students, Metro North Health Service District, Central Zone and statewide, via hospital in-services, grand rounds, regional workshops and the annual Queensland Trauma Symposium.

The Trauma Service initiated the Kenneth Jamieson Trauma Oration in 2009 during the RBWH Healthcare Symposium. In 2011, the Kenneth Jamieson Trauma Oration lecture 'The Third Eye' was presented by Professor Bruce McPhee, Orthopaedic Surgeon, RBWH.

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Cliff Pollard	BD, MBBS, FRACS, FRCS, FACS	Director, Trauma Service; Director, Queensland Trauma Registry	trauma systems, chest injury, inter- hospital transfer of trauma patients, liver trauma, trauma registries, performance indicators
Assoc. Prof. Michael Muller	MBBS, FRACS, MMedSci	Deputy Director, Trauma Service; Deputy Director, Burns	facial burns, trauma system, wound healing
Dr Cath Hurn	MBBS, BMedSci, FACEM	Staff Specialist	trauma management, massive blood transfusion and trauma resuscitation
Dr Keith Towsey	BMedSci, MBBS (Hons), FRACS	Consultant	burns, trauma, disaster care, military surgery, abdominal trauma
Dr Richard Bryant	MBBS, FRACS	Consultant	trauma management, abdominal trauma, liver trauma
Dr Steve Rashford	MBBS, FACEM	Medical Director, Queensland Ambulance Service (QAS)	pre-hospital trauma care, early trauma management, trauma system
Dr Perry Cleland	MBBS, FRANZCR, PhD	Staff Specialist	trauma and emergency radiology
Dr Kong Goh	MBBS (Singapore), FAFMRACP, FACRM, FRACGP, MCGP (Singapore)	Staff Specialist	trauma rehabilitation
Dr Martin Wullschleger	MBBS (Zurich), FMH Surgery, EBSQ Trauma, MD, PhD	Trauma Registrar	trauma system, multitrauma management, abdominal, thoracic and pelvic trauma, soft tissue trauma, fracture healing
Dr Kasmira Wilson	MBBS	JHO General Surgery	cardiac trauma
Dr Brendan Perry	MBBS	PHO General Surgery	trauma management (prehospital FAST)
Dr Jennifer Paratz	MPhty, FACP, GradCertEd, PhD	Chair BTCCRC, Research Fellow	trauma system, critical care, burns
Dale Dally-Watkins	BN, GradCertHealth Management	Assistant Nursing Director	trauma system, trauma education and prevention
Michael Handy	BN, GradCertCritCare, AsDip Business Management	Trauma CNC	trauma system, trauma education, advancement of trauma practise

Research staff

Name	Qualifications	Position	Interests/specialities
Jodie Ross	BN	Trauma CNC	health promotion and prevention, orthopaedic trauma management
Kerena Grant	BN, GradCertEmergency Medicine	Trauma CNC	consumer engagement, emergency care, trauma education
Tracey Daelman	BN, GradCertHealth Management	Trauma CNC	health promotion and prevention, trauma education
Li-Jun Thean	MBBS	Research student	abdominal trauma
Bavahuna Manoharan	BSc, Medical student	Research student	pelvic trauma, soft tissue trauma
Fabienne Robertson	Med Student	Research student	thoracic trauma

Achievements and awards

Award	Event	Name
Best Poster Presentation	2011 Queensland Trauma Symposium	Thean L-J, Wullschleger M, Pollard C
Quality Awards for P.A.R.T.Y. at the Royal	2011 QuARRIES Judges' Award for Community Engagement	Trauma Service
Quality Awards for 'Red Blanket' Protocol	2011 QuARRIES Winner (Projects)	Trauma Service
Quality Improvement Awards for 'Red Blanket' Protocol	2011 Australian Council on Healthcare Standards	Handy M, Dally-Watkins D, Wullschleger M, Muller M

Publications

Schmutz B, Wullschleger ME, Meek J, Noser H, Barry M, Schuetz MA. Fit optimisation of a distal medial tibia plate. *Comput Methods Biomech Biomed Engin.* 2011;14(4):359-64.

Ueno M, Urabe K, Naruse K, Uchida K, Minehara H, Yamamoto T, Steck R, Gregory L, Wullschleger ME, Schuetz MA, Itoman M. Influence of internal fixator stiffness on murine fracture healing: Two types of fracture healing lead to two distinct cellular events and FGF-2 expressions. *Exp Anim.* 2011;60(1):79-87.

Wansbrough G, Boyne N, Pollard CW. Re-ossification of the pelvis following hemipelvectomy for trauma. *JBJS(Br).* 2011;93-B:269-72.

Steck R, Ueno M, Gregory L, Rijken N, Wullschleger ME, Itoman M, Schuetz MA. Influence of internal fixator stiffness on murine fracture healing as Characterised by mechanical testing and microCT imaging. *J Orthop Res.* 2011;29(8):1245-50.

Irie F, LeBrocq R, Kenardy J, Bellamy N, Tetsworth K, Pollard CW. Epidemiology of traumatic epidural hematoma in young age. *J Trauma.* 2011;71(4):847-53.

Department of Urology



Dr Nigel Dunglison
Director, Urology

Overview

The Department of Urology's major research focus has been directed to the ongoing randomised study of open and robotic prostatectomy. Following a pilot study of 69 patients, the trial proper began in October 2010 and has now enrolled and treated over 150 patients of a total of 400 required.

There are a number of aspects to this study which include oncological and psychosocial endpoints together with evaluations of health economic parameters and cardiovascular risk profiling. Molecular and metabonomic profiling of ejaculate also is continuing as part of this Cancer Council supported study and as part of the PCFA grant (below) which also examined the biology of the BMCC1 protein. As a member of our group, Professor Martin Lavin in 2009 redefined the PCA3 gene which is sited in an intron of BMCC1 so we have been studying the role of both genes in prostate cancer from the time of that notable finding.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. RA ('Frank') Gardiner	MD, MBBS, FRCS, FRACS	Consultant Urologist	prostate cancer
Dr John Yaxley	MB BS, FRACS	Consultant Urologist	prostate cancer
Dr Geoff Coughlin	MB BS, FRACS	Consultant Urologist	prostate cancer
Dr Troy Gianduzzo	MB BS, FRACS	Consultant Urologist	prostate cancer
Dr Janelle Hancock	BS, PhD	Research Officer	prostate cancer
Marion Buck	BS	Research Assistant	prostate cancer
Robyn Medcraft	RN	Clinical Trials Coordinator	prostate cancer
Betty Scells	EN	Clinical Trials Coordinator	prostate cancer
Dr Nigel Bennett	BS, PhD	Data Entry Officer	prostate cancer
Matthew Roberts	BS	MPhil candidate	prostate cancer

Supervised postgraduate students

Name	Current studies	Research topic
Roberts M	Masters of Philosophy	A systems biology approach to the early detection and management of prostate cancer
Gianduzzo T	Masters of Philosophy	Laser robotic-assisted laparoscopic radical prostatectomy

Achievements and awards

Award	Event	Recipient
Prof William Egerton Surgical Research Award 2011	RBWH Healthcare Symposium	Roberts M

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Gardiner RA, Chambers SK, Dunglison N, Yaxley J, Occhipinto S, Carter R, Williams S, Lavin M	A randomised trial of robotic and open prostatectomy: Integrated multidisciplinary studies to guide patient management	Cancer Council Queensland Strategic Partnership Grant	\$1.25 million	2009-2014
Gardiner RA, Clarke RA, Lavin MF	The relationship between PCA3 and BMCC1 in prostate cancer development and detection	Prostate Cancer Foundation of Australia	\$394,390	2009-2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Gardiner RA, Schirra HJ	Towards concurrent imaging of primary and secondary prostate cancers	RBWH Foundation	\$25,000	2011
Hodges PW, Ashton-Miller JA, Christantinou CE, Gardiner RA, Coughlin GD, Sapsford R	Urinary continence and incontinence in men: New insights through new technologies	Australian Research Council	\$285,000	2010-2013
Clements J, Sutherland R, Tilley W, Risbridger G, Marshall V, Roder D, Stahl J, Gardiner RA	Australian Prostate Cancer Collaboration (APCC) Bio-resource	NHMRC Enabling Grant	\$2 million	2010-2014

Publications

Foley CL, Greenwell TJ, Gardiner RA. Urethral diverticula in females. BJUI. 2011; 108 (suppl 2):20-3.

Zenzmaier C, Heitz M, Klocker H, Buck M, Gardiner RA, Berger P. Elevated levels of Dickkopf-related protein 3 in seminal plasma of prostate cancer patients. Journal of Translational Medicine 2011, 9:193. www.translational-medicine.com/content/9/1/193

Batra J, Lose F, O'Mara T, Marquart L, Stephens C, Alexander K, Srinivasan S, Eeles RA, Easton DF, Al Olama AA, Kote-Jarai Z, Guy M, Muir K, Lophatananon A, Rahman AA, Neal DE, Hamdy FC, Donovan JL, Chambers S, Gardiner RA, Aitken J, Yaxley J, Kedda M-A, Clements JA, Spurdle AB. Association between Prostateinogen (KLK15) genetic variants and prostate cancer risk and aggressiveness in Australia and a meta-analysis of GWAS data. Plos 1. 2011;6(11):e26527.

Chambers SK, Shover L, Halford K, Ferguson M, Gardiner RA, Occhipinti S, Dunn J. ProsCan for Couples: A feasibility study for evaluating peer support within a controlled research design. Psycho-oncology, 2011; DOI: 10.1002/pon.2110

Chambers SK, Newton RU, Girgis A, Nielsen L, Lepore S, Mihalopoulos C, Gardiner RA, Galvao DA, Occhipinti S. Living with prostate cancer: A randomised, controlled trial of a multimodal supportive care intervention for men with prostate cancer. BMC Cancer. 2011; 11:317.

Kote-Jarai Z, Olama AA, Giles GG, Severi G, Schleutker J, Weischer M, Campa D, Riboli E, Key T, Gronberg H, Hunter DJ, Kraft P, Thun MJ, Ingles S, Chanock S, Albanes D, Hayes RB, Neal DE, Hamdy FC, Donovan JL, Pharoah P, Schumacher F, Henderson BE, Stanford JL, Ostrander EA, Sorensen KD, Dörk T, Andriole G, Dickinson JL, Cybulski C, Lubinski J, Spurdle A, Clements JA, Chambers S, Aitken J, Gardiner RA, Thibodeau SN, Schaid D, John EM, Maier C, Vogel W, Cooney KA, Park JY, Cannon-Albright L, Brenner H, Habuchi T, Zhang HW, Lu YJ, Kaneva R, Muir K, Benlloch S, Leongamornlert DA, Saunders EJ, Tymrakiewicz M, Mahmud N, Guy M, 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, Christmas T, Ogden C, Cooper CS, Lophatananon A, Southey MC, Hopper JL, English DR, Wahlfors T, Tammela TL, Klarskov P, Nordestgaard BG, Røder MA, Tybjærg-Hansen A, Bojesen SE, Travis R, Canzian F, Kaaks R, Wiklund F, Aly M, Lindstrom S, Diver WR, Gapstur S, Stern MC, Corral R, Virtamo J, Cox A, Haiman CA, Le Marchand L, Fitzgerald L, Kolb S, Kwon EM, Karyadi DM, Orntoft TF, Borre M, Meyer A, Serth J, Yeager M, Berndt SI, Marthick JR, Patterson B, Wokolorczyk D, Batra J, Lose F, McDonnell SK, Joshi AD, Shahabi A, Rinckleb AE, Ray A, Sellers TA, Lin HY, Stephenson RA, Farnham J, Muller H, Rothenbacher D, Tsuchiya N, Narita S, Cao GW, 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, Easton DF, Eeles RA. Seven prostate cancer susceptibility loci identified by a multi-stage genome-wide association study. Nat Genet. 2011;43(8):785-91.

Chambers SK, Newton RU, Girgis A, Nielsen L, Lepore S, Mihalopoulos C, Gardiner RA, Galvão DA, Occhipinti S. Living with prostate cancer: A randomised, controlled trial of a multimodal supportive care intervention for men with prostate cancer. BMC Cancer. 2011, 11:317.

Batra J, Lose F, Chambers S, Gardiner RA, Aitken J, Yaxley J, Yeardon T, Clements J, Spurdle A. A replication study examining novel common single nucleotide polymorphisms identified through a prostate cancer genome wide association study (GWAS) in a Japanese population. Am J Epidemiol. 2011;174(12):139-5.

Woo HH, Gillman MP, Gardiner RA, Marshall V, Lynch WJ, A practical approach to the management of male lower urinary tract symptoms (LUTS). MJA. 2011;195:34-9.

Baade PD, Youlden DR, Coory MD, Gardiner RA, Chambers SK. Urban-rural differences in prostate cancer outcomes in Australia: What has changed? MJA. 2011;194(6):293-6.

Chen AC, Waterboer T, Keleher A, Morrison B, Jindal S, McMillan D, Nicol D, Gardiner RA, McMillan NA, Antonsson A. Human papillomavirus in benign prostatic hyperplasia and prostatic adenocarcinoma patients. Pathol Oncol Res. 2011;17(3):613-7.

Roberts MJ, Schirra HJ, Lavin MF, Gardiner RA. Invited manuscript - Metabolomics: A novel approach to early and non-invasive prostate cancer detection: invited review. Korean J Urol. 2011;52(2):79-89.

Publications

Gardiner RA, Gwynne RA, Roberts S. Perinephric abscess. *BJU Int.* 2011;107 Suppl 3:20-3.

Lose F, Batra J, O'Mara T, Fahey P, Marquart L, Eeles RA, Easton DF, Al Olama AA, Kote-Jarai Z, Guy M, Muir K, Lophatananon A, Rahman AA, Neal DE, Hamdy FC, Donovan JL, Chambers S, Gardiner RA, Aitken JF, Yaxley J, Alexander K, Clements JA, Spurdle AB, Kedda MA; Australian Prostate Cancer BioResource. *Urol Oncol.* 2011 Jul 7. [E-pub ahead of print]

Patel VR, Coelho RF, Rocco B, Orvieto M, Sivaraman A, Palmer KJ, Kameh D, Santoro L, Coughlin GD, Liss M, Jeong W, Malcolm J, Stern JM, Sharma S, Zorn KC, Shikanov S, Shalhav AL, Zagaja GP, Ahlering TE, Rha KH, Albala DM, Fabrizio MD, Lee DI, Chauhan S. Positive surgical margins after robotic assisted radical prostatectomy: A multi-institutional study. *J Urol.* 2011 Aug;186(2):511-6.

Chauhan S, Patel MB, Coelho R, Liss M, Rocco B, Sivaraman AK, Palmer KJ, Coughlin GD, Ferrigni RG, Castle EP, Ahlering TE, Parra-Davila E, Patel VR. Preliminary analysis of the feasibility and safety of salvage robot-assisted radical prostatectomy after radiation failure: Multi-institutional perioperative and short-term functional outcomes. *J Endourol.* 2011 Jun;25(6):1013-9.

Patel VR, Sivaraman A, Coelho RF, Chauhan S, Palmer KJ, Orvieto MA, Camacho I, Coughlin G, Rocco B. Pentafecta: a new concept for reporting outcomes of robot-assisted laparoscopic radical prostatectomy. *Eur Urol.* 2011 May;59(5):702-7.

Department of Vascular Surgery

Overview

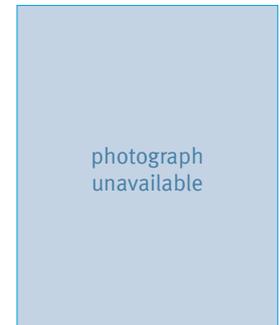
During 2011, under the supervision of Professor Philip Walker, in cooperation with The University of Queensland (UQ), RBWH and with the assistance of a number of postgraduate research students, the Department of Vascular Surgery participated in a variety of research projects in the area of vascular disease.

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 Golledge's group at The James Cook University Vascular Biology Unit, Dr Chris Askew at the Queensland University of Technology, 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 Michel Hoenig completed his PhD at The University of Queensland with his thesis titled 'Studies in cholesterol metabolism: Relationship to statin efficacy, obesity and lipoprotein fractions.'

A number of publications reporting the department members' work were concluded, highlighted by Brendan Wisniewski's publication in The Journal of Vascular Surgery reporting on 'Elective endovascular aneurysm repair at the Royal Brisbane and Women's Hospital: Predictors of outcome after elective endovascular abdominal aortic aneurysm repair and external validation of a risk prediction model.'

The Department had important presentations at the Australian and New Zealand Society of Vascular Surgery's annual national scientific meeting including presentations reporting on 'Long term survival following AAA repair: A single institute experience' and 'Experience with TEVAR at the Royal Brisbane and Women's Hospital: The 1st decade.' Professor Walker delivered the ANZSVS Oration at the Society's Annual Scientific Meeting titled 'Challenges for Consideration for Vascular Surgery in Australasia.'



Dr Jason Jenkins
Director, Vascular Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
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 of Surgery and Head of Discipline, UQ School of Medicine; Discipline of Surgery, Royal Brisbane Clinical School 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
Dr 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/specialities
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 postgraduate students

Name	Current studies	Research topic
Hoening M	PhD	Studies in cholesterol metabolism: Relationship to statin efficacy, obesity and lipoprotein fractions
McRae P	MPhil	Identifying interdisciplinary care needs in older surgical patients
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
Haigh K	MBBS (Hons)	Barriers to the diagnosis and screening of peripheral arterial disease by general practitioners
Stefanovic B	PhD	Muscle fatigue in peripheral arterial disease: the roles of blood flow and muscle metabolism

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Askew CD, Vautin A, Walker PJ, Hobson-Powell A	The QUT-RBWH Vascular Rehabilitation Teaching Clinic: A new model for integrating patient care and student training in exercise physiology	QUT 2011 Engagement Innovation Grants	\$29,789	2011
Golledge J, Rush C, Walker PJ, Fitridge R, Muller R	The role of the clotting cascade in aortic aneurysm and associated cardiovascular events	NHMRC 1003707	\$619,911	2011-2015
Nataatmadja M, West M, Walker PJ, Russell F	Aortic aneurysm and atherosclerosis is associated with the presence of abnormal renin-angiotensin regulation	TPCH Foundation Main Strategic Grant MS2010-2019	\$89,650	2011
McRae P, Mudge A, Walker PJ, Dungleison N, Gardiner RA, Williams H, de Ruiter C, Cruikshank M, Barnbrook C, Woollett K, Slaughter B	Identifying interdisciplinary care needs in older surgical inpatients	RBWH Foundation	\$30,000	2011
Walker PJ, Askew CD, West MJ, Green S, Russell FD, Leicht AS, Golledge J (AI)	Improving exercise capacity and cardiovascular risk after peripheral arterial disease surgery	RBWH Private Practice Trust Fund NHMRC Grant #1008031	\$30,000	2011
Fleming J, Williams B, Silcock R, Walker PJ, Kubler P	Annual intra-brachial arterial GUANETHIDINE injection as prevention against painful ischaemia of the hands in winter, in patients with Raynaud's phenomenon	Australian and New Zealand Society of Anaesthetists	\$5,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Golledge J, Kingwell B, Norman P, Tonkin A, Fitridge R, Reid C, Walker PJ, Hankey G, Fletcher J, Nelson M	National Centre of Research Excellence to improve management of Peripheral Arterial Disease	NHMRC Centre for Research Excellence APP1000967	\$2,499,250	2010-2014
Golledge J, Kingwell B, Ahimastos A, Walker PJ, Norman P, Tonkin A, Reid C, Bourke B, Quigley F	National Small AAA Trial	BUPA Health Foundation Award	\$250,000	2011-2013
Golledge J, Fitridge R, Norman P, Walker PJ, Herbert B	International Alliance to find and use biomarkers to develop diagnostic, prognostic and management pathways for abdominal aortic aneurysms	Queensland Government Smart Futures Fund National and International Research Alliances Program	\$2,510,498	2009-2012
Boyne N, Walker PJ, Jenkins J, Kruger A	ENGAGE: The Endurant Stent Graft Natural Selection Post market Registry	Medtronic Bakken Research Center	€1700 per patient	2009-ongoing
Golledge J, Norman P, Walker PJ, Rush C, Dalman R, Ott J	Association between obesity, TGFB, 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 PJ (A)	Evaluating a decision-making model for EVAR	NHMRC 565335	\$1,036,925	2009-2013

Publications

Ahimastos AA, Pappas EP, Buttner PG, Walker PJ, Kingwell BA, Golledge J. A meta-analysis of the outcome of endovascular and non-invasive therapies in the treatment of intermittent claudication. *J Vasc Surg J Vasc Surg.* 2011;54:1511-21.

Wisniewski B, Barnes M, Jenkins J, Boyne N, Kruger A, Walker PJ. Elective endovascular aneurysm repair at the Royal Brisbane and Women's Hospital. Predictors of outcome after elective endovascular abdominal aortic aneurysm repair and external validation of a risk prediction model. *J Vasc Surg.* 2011;Sep;54(3):644-53.

Belch J, Hiatt WR, Baumgartner I, Driver IV, Nikol S, Norgren L, Van Belle E, on behalf of the TAMARIS Committees and Investigators. Effect of fibroblast growth factor NV1FGF on amputation and death: a randomised placebo-controlled trial of gene therapy in critical limb ischaemia. *Lancet.* 2011;377:1929-37.

Biros E, Norman PE, Walker PJ, Nataatmadja M, West M, Golledge J. A single nucleotide polymorphism in exon 3 of the kallikrein 1 gene is associated with large but not small abdominal aortic aneurysm. *Atherosclerosis.* 2011;Aug;217(2):452-7.

Weber M, Bhatt DL, Brennan DM, Hankey GJ, Steinhubl SR, Johnston SC, Montalescot G, Mak KH, Fox KA, Easton DJ, Topol EJ, Hamm CW; for the CHARISMA Investigators. High-sensitivity C-reactive protein and clopidogrel treatment in patients at high risk of cardiovascular events: a substudy from the CHARISMA trial. *Heart.* 2011;97(8):626-631.

Hankey GJ, Johnston SC, Easton JD, Hacke W, Mas JL, Brennan D, Mak KH, Bhatt DL, Fox KA, Topol EJ; CHARISMA trial investigators. Effect of clopidogrel plus ASA vs. ASA early after TIA and ischaemic stroke: a substudy of the CHARISMA trial. *Int J Stroke.* 2011;6(1):3-9.

Brightwell RE, Walker PJ. Lower limb arterio-venous fistula as a late complication of phlebectomy in a patient with Ehlers-Danlos Type IV. *Eur J Vasc Endovasc Surg* 2011;42:696e-698.

Hoening MR, Walker PJ, Gurnsey C, Beadle K, Johnson L. The C3435T polymorphism in ABCB1 influences atorvastatin efficacy and muscle symptoms in a high-risk vascular cohort. *J Clinical Lipidology.* 2011;5:91-96.

Women's and Newborn Services



Women's and Newborn Services

Overview

Challenges faced by Women's and Newborn Services have centred on balancing activities with available finances in an environment of an increasingly complex and demanding service load, research activities and the provision of multiple education programs for undergraduate and postgraduate health service professionals.

Despite these diverse challenges research activities have continued with an increased number of published papers being achieved during the year.

Key departments

- Betty Byrne Henderson Women's Health Research Centre
- Centre for Breast Health
- Grantley Stable Neonatal Unit
- Department of Gynaecology
- Department of Maternity Services
- Perinatal Research Centre
- Queensland Centre for Gynaecological Cancer

Executive and directing staff

- **Prof. Ian Jones**
Executive Director, Women's and Newborn Services
- **Tami Photinos**
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
- **Professor Paul Colditz**
Director, Perinatal Research Centre
- **Assoc. Prof. James Nicklin**
Clinical Director, Gynaecological Oncology



Prof. Ian Jones
Executive Director, Women's
and Newborn Services



Tami Photinos
Nursing Director, Women's
and Newborn Services

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 which commenced in 2001 is now in its third phase of another five years. In this phase, the primary objective is to continue an annual follow-up of the remaining women in the original cohort. The return response in 2011 was still high at about 75 per cent.

The low incidence of serious health outcomes in the cohort over the last 12 years has delayed analysis. The aims of the clinically-based study are to link the measurements and their changes in function of the women with respect to heart, arterial stiffness, cognition, balance and posture, bone, and endocrine to lifestyle factors and subsequent development of serious medical conditions as the women undergo the process of ageing.

The vast master database which is accumulating has been used by students in research studies for postgraduate degrees, and to date, eight degrees have been awarded.

Research staff

Name	Qualifications	Position	Interests/specialities
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
Adj. Dr Sheila O'Neil	MB, ChB, BAO	Associate	women's health
Dr Justin Oughton	MBBS	Registrar	imaging

Supervised postgraduate students

Name	Current studies	Research topic
Wang T	MBBS (Hons)	Relationship between echocardiographic parameters and arterial stiffness in women aged 40-80
O'Neill S	PhD	Arterial stiffness during menopause transition and beyond: An assessment of hormonal and sociodemographic factors
Andrews M	DPsych	Causal relationships between potentially modifiable risk factors and cognitive decline in older women
Hegarty S	MPsych	Relationship between cognitive decline, depression and health behaviour
Lo A	PhD	Lifestyle and health variables in predicting white matter lesions and cognitive trajectory in ageing
Oughton J	PhD	Relationship between hyperintensity lesions in the brain and central arterial stiffness in ageing women
Boughen J	MPhil	Factors contributing to the habitual positioning of the centre of pressure in women aged 40-80 and relationship to fall risk
Stock L	Hons	Whether weight is predictive of osteoporosis and fall-related fractures in women over 40

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Khoo S-K	LAW Study	RBWH Foundation	\$330,000	2007-2012

Grantley Stable Neonatal Unit

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. It's 30 intensive care beds makes it the 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 2011, there were seven full-time Neonatologists, and two Visiting Medical Officers. There were two Nurse Unit Managers, one Nurse Manager, two Clinical Nurse Consultants, one and half position full-time Nurse Educators, approximately 200 Nurses (130 full-time equivalents), of whom 85 per cent hold neonatal certificates or transition, 15 registrars and two Senior House Officers.

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 Hospital (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.



Dr David Cartwright
Director, Neonatology

Research staff

Name	Qualifications	Position	Interests/specialities
Dr David Cartwright	MBBS, BSc, FRACP	Director, Neonatology; Associate Professor, UQ	general neonatology, neonatal follow-up, perinatal data systems
Dr Pieter Koorts	MBChB, FRACP	Deputy Director, Neonatology; Senior Staff Specialist; Senior Lecturer, UQ	general neonatology, milk banking, bedside echocardiography
Tim Donovan	MBBS, FRACP, MPH	Senior Staff Specialist; Senior Lecturer, UQ	neonatal nutrition, gastroschisis, telehealth
Dr Mark Davies	MBBS, DCH, PhD, FRACP	Senior Staff Specialist, Neonatology; Associate Professor, Neonatology	neonatal research, paradigms in neonatology
Dr Garry Inglis	MBBS, FRACP	Staff Specialist; Senior Lecturer, UQ	general neonatology
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 Margo Pritchard	RN, RMNMC, BA, PhD	Principal Clinical Research Trialist; Honorary Research Consultant, School of Nursing and Midwifery and School Medicine, UQ	screening and surveillance, neuro-developmental and family outcomes, clinical trials

Supervised postgraduate students

Name	Current studies	Research topic
Armfield N	PhD	Remote assessment and management of critically ill infants by telemedicine: A novel approach to supporting the care of a vulnerable patient group
Cumin M	PhD	Pre-term growth and body composition evaluation
Davies MW	PhD	Partial liquid ventilation and cerebral blood flow
New K	PhD	Transfer of pre-term infants from incubator to open cot at lower versus higher body weight.
Jardine LA	PhD	Predicting outcomes following pre-term birth using qualitative assessment of movement
Hutchinson F	FRACP	Toys in cots

Supervised postgraduate students

Name	Current studies	Research topic
Armfield N	PhD	Remote assessment and management of critically ill infants by telemedicine: A novel approach to supporting the care of a vulnerable patient group
Cumin M	PhD	Pre-term growth and body composition evaluation
Davies MW	PhD	Partial liquid ventilation and cerebral blood flow
New K	PhD	Transfer of pre-term infants from incubator to open cot at lower versus higher body weight
Jardine LA	PhD	Predicting outcomes following pre-term birth using qualitative assessment of movement
Hutchinson F	FRACP	Toys in cots
Parry M	FRACP	LBW infant morbidity
McLaughlin L	FRACP	Contamination rates in neonatal blood culture
Dixon K	FRACP	Feasibility study for the time-off-with-cares (TOWC) test for assessing suitability for stopping respiratory support
Sidhu R	BPsych (Hons)	The influence of reflective functioning on maternal stress and depression in a pre-term infant parent population
Jardine C	B Psych (Hons)	The influence of maternal stress, depression and reflective functioning capacity during NICU admission on quality of pre-term infant-parent relationship at six months

Awards and achievements

Award	Event	Recipient
Queensland Health Innovations Award: Category for Improving Patient Outcomes for 'Neonatal Telemedicine'	Queensland Health Innovations Forum	Armfield N, Donovan T, Cogill K, Smith A
Health Minister's Award for the Best Innovation in Queensland Health for 'Remote assessment and management of the critically ill infant by telemedicine: A novel approach to care of a vulnerable patient group'	Queensland Health Innovations Forum	Armfield N, Donovan T, Cogill K, Smith A
The University of Queensland Dean's Commendation for Outstanding Research Higher Degree Theses for 'Remote assessment and management of critically ill infants by telemedicine: A novel approach to supporting the care of a vulnerable patient group'	The University of Queensland Dean's Awards	Armfield N

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Moxon-Lester L, Donovan T, Koorts P	Urinary creatine in asphyxiated infants	RBWH Research Advisory Committee	\$20,000	2011
Donovan T, Bjorkman T, Robertson T, Colditz P	Perinatal Brain Bank Development	RBWH Private Practice Trust Fund	\$40,000	2011
Davies, MW, Dunster KR	Optimising ventilation in VLBW infants	Medical Advances Without Animals Trust (MAWA) Research Grant	\$29,108.90	2010-2011
Davies, MWDunster KR	Optimising ventilation in VLBW infants	RBWH Private Practice Trust Fund Research Grant	\$48,900	2009-2012
Colditz P, Boyd R, Sanders M, Pritchard MA, Gray P, O'Callaghan M, Slaughter V, Whittingham K	Prem Triple P - parenting program for very pre-term infants to improve neurodevelopmental outcome: a RCT	RBWH National Health Medical Research Council (NHMRC) near-miss funding	\$30,000	2010-2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Pritchard MA	Examining psychosocial risks for parenting children born ≤ 32 weeks gestation	Neonatal Nursing Association of Queensland (NNAQ) Inc Scholarship Scheme Research Grant	\$3,000	2010-2011
Pritchard MA, Cartwright D, de Dassel T, Beller E, Johnston L, Bogossian F, Callan S	Developmental and autism surveillance in high-risk children	RBWH Foundation	\$20,000	2010-2011

Research grants

New K, Flenady V, Davies MW. Transfer of pre-term infants from incubator to open cot at lower versus higher body weight. *Cochrane Database Syst Rev* 2011, Issue 9. Art. No.: CD004214. DOI: 10.1002/14651858.CD004214.pub4.

Jardine LA, Inglis GDT, Davies MW. Strategies for the withdrawal of nasal continuous positive airway pressure (NCPAP) in pre-term infants. *Cochrane Database Syst Rev* 2011, Issue 2. Art. No.: CD006979. DOI: 10.1002/14651858.CD006979.pub2.

Davies MW, Dunster KR. Gas Exchange during perfluorocarbon liquid immersion. Esquinas AM Editor. *Applied technologies in pulmonary medicine*. Basel: Karger. 2011:15–18.

Davies MW. Partial liquid ventilation and cerebral blood flow: The effects of the administration of a dose of perfluorocarbon liquid, when starting partial liquid ventilation, on cerebral blood flow [PhD Thesis]. St Lucia, Qld: University of Queensland. 2011.

Schmidt B, Seshia M, Shankaran S, Mildenhall L, Tyson J, Lui K, Fok T, Roberts R, TIPP Collaborator Group (Pritchard MA). Effects of prophylactic indomethacin in extremely low-birth-weight infants with and without adequate exposure to antenatal corticosteroids. *Arch Pediatr Adolesc Med*. 2011 Jul;165(7):642-6.

Brocklehurst P, Farrell B, King A, Juszcak E, Darlow B, Haque K, Salt A, Stenson B, Tarnow-Mordi W. INIS Collaborative Group, (Pritchard MA, Cartwright D) Treatment of neonatal sepsis with intravenous immune globulin. *N Engl J Med*. 2011 Sep 29;365(13):1201-11.

Webster J, Pritchard MA. Gowning by attendants and visitors in newborn nurseries for prevention of neonatal morbidity and mortality. *Cochrane Database of Systematic Reviews* 2003, Issue 2. Art. No.: CD003670. DOI: 10.1002/14651858.CD003670. Update 2011.

Department of Gynaecology



Dr David Baartz
Clinical Director, Gynaecology

Overview

The Department of Gynaecology at Royal Brisbane and Women's Hospital 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 multidisciplinary service is supported by specialists from the Royal Children's Hospital and Dr David Baartz, Director, Gynaecology. Reproductive Endocrinology and Infertility is a division of the Department of Obstetrics and Gynaecology. This division pertains to all aspects of human reproduction, fertility preservation and reproductive endocrinology.

Dr David Baartz is the Executive Officer of the Australasia International Society of the Study of Trophoblastic Diseases.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRANCOG, FRCOG, PhD	Executive Director, Women's and Newborn's Services	medical conditions and their effect on pregnancy, medical education, general obstetrics and gynaecology
Dr David Baartz	MBBS, FRANZCOG	Clinical Director, Gynaecology; Director, Queensland Trophoblastic Centre	gynaecology, urogynaecology, gestational trophoblastic disease
Assoc. Prof. Rebecca Kimble	MBBS, FRANZCOG, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service; Assoc. Prof. UQ School of Medicine; Queensland Founder and Director, Queensland Maternity and Neonatal Clinical Guidelines Program; Chair, Statewide Maternity and Neonatal Clinical Network; Co-Chair, Central Maternity and Neonatal Network	clinical governance, maternity emergencies in a simulated environment, paediatric and adolescent gynaecology, Member of North American Society for Paediatric and Adolescent Gynaecology
Assoc. Prof. Mark Erian	LRCP, LRCS, LRCPS, DObstRCPI, MD, FRANZCOG, FRCOG, FACOG, GradCert Education	Senior Consultant; Obstetrician and 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, Obstetrics and Gynaecology; Senior Lecturer, UQ	perinatology, incontinence, medical audit, health services research
Dr Lee Minuzzo	MBSS, FRANZCOG, GradCert Education	Staff Specialist, Obstetrics and Gynaecology	general obstetrics and gynaecology
Dr Wai Lum Yip	MBBS, FRANZCOG	Staff Specialist, Obstetrics and Gynaecology	general obstetrics and gynaecology, medical education, high risk obstetrics
Assoc. Prof. Anusch Yazdani	MBS (Hons), FRANZCOG, CREI	Visiting Gynaecologist	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

Research staff

Name	Qualifications	Position	Interests/specialities
Cathy Nichols	RN	Registered Nurse	urogynaecology
Dr Owen Ung	FRACS	Director, Centre for Breast Health	breast health
Dr Benjamin Kroon	FRANZCOG	Fertility and Reproductive Fellow	fertility and endocrinology
Melissa Wright	RN	Case Manager (Continence)	urogynaecology
Shona Morrison	RN	Case Manager (Trophoblastic Disease)	gynaecology

Supervised postgraduate students

Name	Current studies	Research topic
Kroon B	Certificate in Reproductive Endocrinology and Infertility, Royal Australian and New Zealand College of Obstetricians and Gynaecologists	Reproductive Endocrinology and Infertility

Awards and achievements

Award	Event	Recipient
DRG's in Gynaceology	2011 RBWH QuARRIE Awards	Khalil A

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Khalil A	RBWH Gynaecology Laparoscopic Workshops	Covidien	\$6,000	2011
Khalil A	RBWH Laparoscopic Training	RBWH Private Practice Fund	\$53,000	2008-ongoing
Khalil A, Khoo S	Multicentre, 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	\$200,000	2009 -2012
Yazdani A, Kroon B, Kwapil K, Chan W	A randomised controlled trial of the impact of fatigue on surgeon performance in long procedures	Australasian Gynaecological Endoscopy and Surgical Society	\$12,000	2010-2011
Khalil A, Knack B	Research award in gynaecology robotics	RBWH Foundation	\$20,000	2011

Publications

Smith SD, Jones AD. Organ donation. *N Engl J Med.* 2011;657:230-5.

Showell MG, et al. Antioxidants for male subfertility. *Cochrane Database Syst Rev.* 2011. 1: p. CD007411.

Kroon B, et al. Consensus statement on fibroids in infertility. *ANZ J Obstet Gynecol.* 2011.

Kroon B, Hart RJ, Wong BMS, Yazdani A. Antibiotics prior to embryo transfer in ART (Protocol). *Cochrane Database of Systematic Reviews* 2011. 2: CD008995.

Kroon B, Harrison K, Martin N, Wong B, Yazdani A. Miscarriage karyotype and its relationship with maternal body mass index, age, and mode of conception. *Fertil Steril.* 2011 Apr;95(5):1827-9.

Erian M, McLaren G, Baartz D. The wandering mirena: Laparoscopic retrieval. *Journal of Society of Laparo-Endoscopic Surgery.* 2011;15:127-130.

Department of Maternity Services



Assoc. Prof. Rebecca Kimble
Clinical Director,
Obstetric Services

Overview

Maternity Services at Royal Brisbane and Women's Hospital encompasses many major multidisciplinary services and 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 multicentre research projects.

Maternal Fetal Medicine (MFM) combines tertiary fetal imaging, fetal diagnosis and treatment, maternal (ADD everything as was in the 2010 report on MFM).

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/funds.

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 superspecialty 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 superspecialty.

The Commonwealth Department of Health and Aging (DoHA) has granted the Service 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 the Director-General, Queensland Health. This should allow the establishment of a Statewide Telehealth Service.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRACOG, FRCOG, PhD	Executive Director, Women's and Newborn's Services	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	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service; Assoc. Prof. UQ School of Medicine; Queensland Founder and Director, Queensland Maternity and Neonatal Clinical Guidelines Program; Chair, Statewide Maternity and Neonatal Clinical Network; Co-Chair, Central Maternity and Neonatal Network	clinical governance, maternity emergencies in a simulated environment, paediatric and adolescent gynaecology, Member of North American Society for Paediatric and Adolescent Gynaecology
Dr Yogesh Chadha	FRANZCOG, MSc, FRCOG	Senior Staff Specialist	obstetrics and gynaecology
Dr Karin Lust	MBBS, FRACP	Clinical Director, Obstetric Medicine; General Physician	medical disorders in pregnancy, preconception counselling, contraception
Assoc. Prof. Leonie Callaway	MBBS, FRACP	General and Obstetric Physician; Head, Royal Brisbane Clinical School	obstetric medicine, obesity
Prof. Nicholas Fisk	MBA, PhD, MBBS, FRCOG, FRANZCOG, CMFM, DDU	University Specialist	monochorionic twins pregnancy, fetal stem cell biology, fetal therapy
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 (part-time)	maternal fetal medicine
Dr Renuka Sekar	MBBS, FRANZCOG, CMFM	Maternal Fetal Medicine Staff Specialist	talipes, ventriculomegaly
Dr Narelle Fagermo	MBBS, FRACP	General 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 Post-Doctoral Researcher, UQCCR	obesity pregnancy complications and pregnancy outcomes
Katie Foxcroft	RN, RM	Coordinator Nurse Research	obstetric medicine, clinical trials
Dr David Danon	MD, DGO, UDG	Maternal Fetal Medicine, Registrar/ Researcher Fellow	twin-twin transfusion syndrome
Dr Allison Pettit	PhD, BSc (Hons)	Lecturer	osteoimmunology
Dr Liza-Jane Raggat	PhD, BSc (Hons)	Lecturer	bone biology
Dr Jatin Patel	PhD	Post-Doctoral Researcher	fetal endothelial progenitor cells
Dr Susan Millard	PhD	Post-Doctoral Researcher	intrauterine stem cell transplantation for osteogenesis imperfecta
Dr Rebecca Pelekanos	PhD	Post-Doctoral Researcher	manufactured mesenchymal stem cells, growth hormone regulation of stem cells

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Edwige Roy	PhD	Post-Doctoral Researcher	chronic fetal maternal microchimerism
Dr Vincent Chen	PhD	Post-Doctoral Researcher	induced pluripotent stem
Rebecca Ellis	BSc (Hons)	Research Assistant	transgenic models for stem cell assays
Samuel Jesuadian	MSc	Research Assistant	fetal stem cell culture

Supervised postgraduate students

Name	Current studies	Research topic
Constantini K	PhD	Role of C5a in fetal and maternal health
deJersey S	PhD	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy
Barrett H	PhD	Lipids in gestational diabetes
Harris L	PhD	The preconception metabolome as a predictor for complications of pregnancy
Kilgour K	PhD	Electronic record keeping in pregnancy
Achong N	PhD	Glucose levels in T1D in pregnancy
Peter-Przyborowska B, Kimble RMN	Postgraduate Specialist Fellowship Trainee	Knowledge of correct use of seat belts in pregnancy: A survey of pregnant women at RBWH
Bagchi T	Fellow, Paediatric and Adolescent gynaecology; Postgraduate Specialist Trainee	A five year review of management of all patients through the PAG service presenting with a request for ammenorrhoea
Sepannan E	PhD	The contribution of microchimeric fetal stem cell sub-populations to maternal tissue repair
Heazlewood C	PhD	Comparison of fetal and maternal mesenchymal stromal cells derived from term placenta
Legrand J	PhD	Mesenchymal-epidermal interactions in wound regeneration

Awards and achievements

Award	Event	Recipient
QuARRIE Award for 'Third and fourth degree perineal tears (Is ethnicity an issue?)'	2011 RBWH QuARRIE Awards	Kimble R, Calabro K
Graz Clock Award, Best Scientific Presentation	Australasian Diabetes in Pregnancy Society	Callaway L
Best Poster Award	Society of Obstetric Medicine of Australia and NZ	Callaway L
Andrew Phippard Prize for Best Scientific Presentation	Society of Obstetric Medicine of Australia and NZ	Callaway L

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Kimble RMN, Upton Z, Croll T, Cao Y, Knack B, Cuttle L, Kimble R	Toward tissue engineering a complete vaginal graft for clinical applications. Collaboration with QUT Tissue repair and regeneration Program	RBWH Foundation	\$35,000	2011-2013
Kimble RMN	Development of audit and implementation tools for clinical guidelines	Southern Area Maternity Clinical Network	\$25,000	2011
Kimble RMN	Audit and education project of three statewide clinical guidelines across Queensland	Queensland Health Centre for Healthcare Improvement	\$50,000	2011

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Kimble RMN	Development of statewide clinical guidelines	Queensland Health Centre for Healthcare Improvement	\$500,000 per annum	2011-2014
Kimble RMN	Sustaining Queensland maternity and neonatal clinical guidelines program	Primary, Community and Extended Care Branch, Queensland Health	\$50,000	2011
Kimble RMN	Support for Paediatric and Adolescent Gynaecology Fellow for service and research	Policy, Strategy and Resourcing Division, Queensland Health	\$60,000	2011
Kimble RMN	Newly established Statewide Paediatric and Adolescent Gynaecology Fellow's position for service and research.	Commonwealth Department of Health and Aging (DoHA)	\$110,000 per annum	2011-2013
Kimble RMN	Site specific grant for Statewide Paediatric and Adolescent Gynaecology Service	Queensland Health	\$428,000	2011-2012
Kimble RMN	Support for providing Paediatric and Adolescent Gynaecology superspecialty training to RANZCOG trainees	Commonwealth DoHA	\$20,000	2011-2012
Kimble RMN	Implementation of statewide pregnancy health record	Queensland Health Centre for Healthcare Improvement	\$20,000	2011-2012
Kimble RMN	Implementation of statewide pregnancy health record across Queensland through the Statewide Maternity and Neonatal Clinical Network	Queensland Health Centre for Healthcare Improvement	\$500,000	2011-2012
Harris L	Predictors of pre-eclampsia, a longitudinal study	NHMRC scholarship		2011-2012
Taylor SM, Woodruff TM, Callaway LK, Finnell RH	Complement C5a receptors, placental inflammation and reproductive impairment	NHMRC Project grant	\$967,750	2009-2013
Callaway L	Postdoctoral Fellowship	RBWH Foundation	\$150,000	2009-2011
Barrett H	Medical and dental research scholarship	NHMRC	\$96,000	2011-2014
Callaway L	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies?	RBWH Foundation	\$150,000	2010-2011
Weinstein P, Fisk NM, 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
Fisk NM, Pettit A, Khosrotehrani K, Raggatt L	Preslinal opetimisation of intrauterine transplantation of fetal mesenchymal stem cells for osteogenesis imperfecta	NHMRC	\$579,000	2010-2012
Fisk NM, 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 MA, Fisk NM	Generation of highly osteogenic bone tissue-engineering graft for treatment of clinical bone defects	NHMRC (Singapore)	\$1.4 million	2011-2013
Cooper-White J, Fisk NM, Grondahl L, Wolvetang EJ	Scalable, high throughput microfluidic platforms for rissue specific biomaterials development and tissue genesis	Australian Research Council (ARC)	\$400,000	2010-2013
Wolvetang EJ, Harvey R, Verma P, Laslett A, Fisk NM, Grimmond S, Mackay-Sim A, Gronthos S	Reprogramming and induction of pluripotency	Australian Stem Cell Centre (ASCC)	\$2.5 million	2010-2011

Publications

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- Jones I, Crandon A, Sanday K. Paget's disease of the vulva: Diagnosis and follow up the key to management: A retrospective study of 50 cases from Queensland. *Gyne Oncology*. 2011;122:42-44.
- Jones I. Demystifying malignant vulvar skin lesions. *Medicine Today*. 2011;12(11):43-48.
- Mooring C, O'Rouke, Kimble RMN. Large loop excision of transformation zone procedures used in the management of cytological abnormalities of the cervix. Article first published online: 31 Jan 2011. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2011;51(2):109-113.
- Shannon G, Sekar R, Kimble RMN. Septic Shock following cervical cerclage for advanced cervical dilatation. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2011;51(5):469-470.
- Kimble RMN and Queensland Maternity and Neonatal Clinical Guidelines Program: Publication of following Guidelines on NHMRC Portal www.clinicalguidelines.com.au
- QHEPS website www.health.qld.gov.au/qcg
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Early pregnancy loss
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Stillbirth care
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Induction of labour
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Neonatal resuscitation
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Neonatal seizures
- Queensland Maternity and Neonatal Clinical Guideline and Supplement Neonatal stabilisation
- Queensland Maternity and Neonatal Clinical Guidelines Program Operational Framework: Non-urgent transfer for antenatal transfer care
- Queensland Maternity and Neonatal Clinical Guidelines Program Operational Framework : Shared antenatal care
- Scott K, Rutherford N, Fagermo N, Lust K. Use of imaging for investigation of suspected pulmonary embolism during pregnancy and the postpartum period. *Obstet Med*. 2011;4:20-23.
- Dekker Nitert M, Foxcroft KF, Lust K, Fagermo N, Lawlor DA, O'Callaghan M, Mcintyre HD, Callaway LK. Overweight and obesity knowledge prior to pregnancy: A survey study. *BMC Pregnancy and Childbirth*. 2011;11:96.
- Mallett M, Lynch M, John GT, Healy H, Lust K. Ibuprofen-related renal tubular acidosis in pregnancy. *Obstet Med*. September 2011 4:122-124.
- Barrett H, Lust K, Callaway L, Fagermo N, Portmann C. Termination of pregnancy for maternal medical indications: Failings in delivery of contraceptive advice. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2011;51(6):532-535.
- Ennis M, Callaway C, Lust K. Adherence to evidence-based guidelines for the management of pyelonephritis in pregnancy. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2011;51(6):505-509.
- Barrett H, Lust K Fagermo N, K Callaway LK, Minuzzo L. Moyamoya disease in pregnancy: Maintenance of maternal blood pressure *Obstet Med om*. 2011.110046; published ahead of print 8 December 2011.
- O'Rourke KM, McMaster S, Lust KMC. A case of hepatitis attributable to repeated exposure to methoxyflurane during its use for procedural analgesia. *MJA*. Volume 194; Number 8; 18 April 2011.
- McLeod DSA, Scott KA, Lust KMC and McIntyre HD. Routine screening for vitamin D deficiency in early pregnancy. *Med J Aust*. 2011; 195(7):384-385.
- Byrne NM, Groves AM, McIntyre HD, Callaway LK. Changes in resting and walking energy expenditure and walking speed during pregnancy in obese women. *Am J Clin Nutr*. 2011;94(3):819-30.
- Callaway LK, David MH, Williams GM, Najman JM, Lawlor DA, Mamun A. Diagnosis and treatment of hypertension 21 years after a hypertensive disorder of pregnancy. *Aust N Z J Obstet Gynaecol*. 2011;51(5):437-40.
- Callaway LK (created in conjunction with Lindy McAllister and Jodie Atkin). Online education modules for clinical teaching, enhancing the skills of clinicians in their interactions with students through the course of clinical placements. June 2011.
- Foxcroft KF, Rowlands IJ, Byrne NM, McIntyre HD, Callaway LK, Colditz PBapog. Exercise in obese pregnant women: the role of social factors, lifestyle and pregnancy symptoms. *BMC Pregnancy Childbirth*. 2011;11:4.
- Lingwood BE, Henry AM, d'Emden MC, Fullerton AM, Mortimer RH, Colditz PB, Cao KL, Callaway LK. Determinants of body fat in infants of women with gestational diabetes differ with fetal sex. *Diabetes Care*. 2011;34(12):2582-5.
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- Mamun AA, Callaway LK, O'Callaghan MJ, Williams GM, Najman JM, Alati R, Clavarino A, Lawlor DA. Associations of maternal pre-pregnancy obesity and excess pregnancy weight gains with adverse pregnancy outcomes and length of hospital stay. *BMC pregnancy and childbirth*. 2011;11:62.
- 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*. 2011 Apr 21.
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- Vanleene M, Saldanha Z, Cloyd K, Jell G, Bou-Gharios G, Bassett JHD, Williams G, Fisk NM, Oyen M, Stevens M, Guillot P, Shefelbine S. Transplantation of human fetal blood stem cells in the osteogenesis imperfecta mouse leads to improvement in multi-scale tissue properties. *Blood* 117:1053-60, 2011.
- Fisk NM, McKee M, Atun R. Addressing global disease burden in maternal and perinatal health requires investment in RD. *Tropical Medicine and International Health*. 2011;16:662-8.
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- 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*. (e-pub) 2011.

Perinatal Research Centre



Prof. Paul Colditz
Director, Perinatal
Research Centre

Overview

2011 was an exciting year for the Perinatal Research Centre with major new research underway towards our goal of improving perinatal health outcomes. Eleven clinical trials are ongoing, keeping Dr Margo Pritchard and her team very busy. Two major new multicentre randomised clinical trials planned from the PRC and funded by NHMRC are commencing including 'Starting well positive parenting for pre-term infants' and a trial on neonatal seizure treatment. The centre looks forward to determining the results from these trials as it is anticipated they will provide vital support to parents at times of extreme stress in their lives.

During 2011 our Research Team received further valuable support from many philanthropists who share our vision. The RBWH Auxiliary has provided generous donations to replace a very well used analogue cerebral function monitor (CFM) for a new digital version. We will be donating the old monitor to the hospital's museum as it is now an antique that has been essential for our research into seizures in pre-term and term babies.

This vital piece of new equipment will be used to further our knowledge in this area, providing a state-of-the-art tool for our dedicated research team keen to develop new treatment strategies to protect the brains of newborn babies. It has been a pleasure having the support of the RBWH Foundation, the Lions Medical Research Foundation and the public in sharing our mission to advance the health of mothers and babies.

Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Paul Colditz	MBBS, MBiomedE DPhil, FRACPm FRCPCH	Director, Perinatal Research Centre; Deputy Director (Clinical) UQCCR	clinical neonatology, neuroscience, biomedical signal processing
Prof. David McIntyre	MBBS, FRACP	Director, Endocrinology and Obstetric Medicine; Head, Mater Clinical School, UQ; PRC Senior Research Fellow, Mater Health Services	medical disorders of pregnancy, regulation of fetal growth and intensive therapy of Type 1 Diabetes
Prof. Glenda Gobe	PhD, MSc, GradDipEd	Centre for Kidney Disease Research Administrative Director, University of Queensland. Honorary PRC Senior Research Fellow	Prenatal insults and their effects on brain damage and chronic kidney disease
Prof. David Pow	BSc, PhD	Deputy Director and Group Leader, UQCCR	neurotransmitter homeostasis in the normal and pathogenic brain
Prof. Boualem Boashash	BEBS, MSc, Drlng (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	Professor of Pharmacology at SBMS, UQ PRC Senior Honorary Research Fellow	the role of the complement system in inflammatory disease
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

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Tim Donovan	MB, BS, MPH, FRACP (Paed)	Neonatologist; PRC Senior Honorary Research Fellow; Neonatal Paediatrician; Senior Lecturer, UQ	improving outcomes for pre-term 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
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 pre-term infant
Dr Ghazem Azemi	PhD	Research Fellow	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Dr Janet Hammill	AM, PhD, MTH, RN	Research Fellow	fetal alcohol spectrum disorders
Dr Kathryn Buller	PhD	Senior Research Fellow	neuroinflammation and brain injury in premature neonates exposed to hypoxia-ischemia
Dr Layne Wright	PhD	Research Fellow	cardiovascular system of pre-term infants in order to reduce hypoxic/ischemic brain injury
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, Perinatal Research Centre; Honorary Research Consultant, School of Nursing and Midwifery QUT; 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 Mostefa Mesbah	BSc, MSc, PhD	Research Fellow	biomedical signal processing, time-frequency signal processing, and statistical signal processing
Dr Nigel Barnett	MSc, DPhil (Oxon)	Senior Research Fellow	effects of hypoxia/ischaemia in visual development and disease
Dr Simon Finnigan	PhD	Senior Research Fellow	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 pre-term and term infants
Dr Yvonne Eiby	BSc (Hons), PhD	NHMRC Research Officer	cardiovascular system of pre-term infants in relation to hypoxic/ischemic brain injury
Amir Omidvarnia	BSc, MSc	Research Assistant	medical signal processing, image processing, pattern recognition
Mohammed Khlif	BSc, MSc	Research Assistant	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Nicholas Ward	BSc (Hons)	Research Assistant	preventing hypoxia/ischaemia in the newborn
Siamak Layeghy	BSc, MSc	Research Assistant	digital signal processing, digital image processing, biomedical signal processing, pattern recognition, time frequency signal analysis
Anna Pritchard	BSc	Research Assistant	clinical trials
Brooke Dougan	BComm BA (Hons I), AssocMAPS	Registered Psychologist; PhD student	psychometric assessment of children involved in the long-term follow-up phase of several multi-site clinical studies

Research staff

Name	Qualifications	Position	Interests/specialities
Donna Hovey	RN, NNC, BN (Hons I)	Research Assistant	clinical trials
Karen Taylor	RN, Endorsed Midwife, Neonatal Intensive Care	Research Nurse	clinical trials group supporting 'Enhanced parenting to improve developmental outcomes in pre-term infants'
Leisa Brooks	BNurs and Hlth Serv Mgmt (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, BHlthScNursing, 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 postgraduate students

Name	Current studies	Research topic
Kalanjati V	PhD	GABA-A receptor subunits in normally grown and IUGR piglet brain across the perinatal period
Davies M	PhD	Partial liquid ventilation (PLV) optimisation for use in pre-term infants
Nisbet J	PhD	Effects of 11 beta HSD phenotypic and genotypic variations in obesity and glucose metabolism
Constantini K	PhD	The role of C5a in pathophysiology
De Jersey S	PhD	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy
Kim M	PhD	Cardiac maturation and local renin angiotensin systems in pre-term birth in pigs
Cumin M	PhD	The Premie GRACE (Pre-term Growth And body Composition Evaluation) Study
Knight B	PhD	Effects of the DAFNE programme on dietary composition in patients with Type 1 Diabetes
Awabdy D	PhD	AMPA-KA receptor expression after hypoxic-ischaemia in the neonatal piglet
Jardine L	PhD	Development of early predictors of long term neurodevelopmental outcome for pre-term infants
Khlif M	PhD	Neonatal seizure characterisation: Detection, localisation, study of seizure site synchrony and seizure propagation
Barrett H	PhD	Maternal lipids in pregnancy
Omidvarnia A	PhD	Theoretical development and necessary concepts of nonstationary multivariate connectivity measures for newborn EEG analysis
Odebae M	PhD	EEG source localisation: Refining a non-invasive method for measuring brain activity
Reinebrant H	PhD	The central serotonergic system in the pre-term neonate following hypoxic-ischemic brain injury
Wixey J	PhD	Aetiology of low systemic blood flow in the pre-term neonate
Yamada M	PhD	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxia/ischaemia-injured neonatal brain
Miller S	PhD	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Dong S	PhD	Biomedical signal processing of ECG and EEG using time-frequency analysis in babies exposed to hypoxic/ischaemic episodes
Pannek K	PhD	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain
Carty M	PhD	Neuroanatomical changes underpinning functional deficits after hypoxic-ischaemic injury in the pre-term brain
Ma N		Developmental changes in expression of KCC2 and NKCC1 in normal and hypoxic ischaemic neonatal piglet brain
Sam S	PhD	Investigation of the early cardiovascular system function of very premature infants and its relationship to neurodevelopmental outcome

Awards and achievements

Award	Event	Recipient
Q-Factor Top 10, Research Inputs Award	The University of Queensland Inaugural Q-Index Awards	Colditz P
Graz Clock Award for Best Scientific Presentation, Australasian Diabetes in Pregnancy Society		Callaway L, Lingwood B
Best Poster Award, Society of Obstetric Medicine of Australia and New Zealand		Callaway L
Andrew Phippard Prize for Best Scientific Presentation, Society of Obstetric Medicine of Australia and New Zealand		Callaway L
Early Researcher Career Travel Grant, Australian Neuroscience Society		Wixey J
Early Researcher Career Travel Grant, Perinatal Society of Australia and New Zealand		Wixey J
Best Poster Presentation	RBWH Healthcare Symposium	Miller S

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
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
Donovan T, Bjorkman S, Robertson T, Colditz P	Queensland perinatal brain bank	RBWH Foundation	\$40,000	2011
Callaway L, Humphrey M	Prospective study of validity of an obstetric risk score revision	Queensland Health	\$100,000	2011
Douglas H, Hammill J, Hall W	FASD within the criminal justice sector in Queensland	Alcohol Education and Rehabilitation Foundation Ltd	\$71,340	2011
Callaway L	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies	RBWH Foundation	\$150,000	2010-2011
De Jersey S, Daniels L, Callaway L, Nicholson J, Ross L	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy	The University of Queensland	\$28,000	2011
Colditz PB, Boyd R, Rose S, Finnigan S	Ischaemia as a causal pathway to cerebral palsy in the pre-term baby: Advances in prognostication, treatment and prevention	Cerebral Palsy Institute	\$50,000	2010-2011
Colditz PB, Vanhatalo S	Brain diagnostics and monitoring in the early neonatal period	University of Helsinki	\$51,137	2010-2011
Hunt R, Colditz PB, 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 PB, 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 PB, 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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Colditz PB, Sanders M, Boyd R, Pritchard M, Gray P, O'Callaghan M, Slaughter V, Whittingham K	A parenting program for infants born very pre-term	RBWH	\$30,000	2011
Finnegan S	Protecting newborn brains via innovative monitoring technology	NHMRC	\$370,000	2010-2012
Mesbah M, Colditz PB, East CE, 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 NL, Lingwood B, Bjorkman S, Buller KB, Colditz PB	Astrocyte regulation of ammonia and glutamate in neonatal hypoxia/ischaemia	NHMRC	\$532,629	2010-2012
Mamun A, O'Callaghan M, Najman J, Alati R, Williams G, Clavarino A, McIntyre DH	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 SM	Complement activation in experimental epilepsy	NHMRC	\$303,750	2010-2012
Johnson D, Gobe GC, West M, Brown L, Vesey D	Enhancing erythropoietin therapy in ischaemia-reperfusion injury of heart and kidney	NHMRC	\$348,750	2010-2012
Buller KM, Colditz PB, Gobe GC	Targeting neuroinflammation to prevent progressive neuronal loss after hypoxic-ischemic injury in the pre-term neonate brain	NHMRC	\$413,375	2009-2011
Sullivan S	Astrocytes: A possible target to treat hypoxic brain damage	NHMRC	\$285,000	2009-2012
Taylor SM, Woodruff TM, Callaway LK, Finnell RH	Complement C5a receptors, placental inflammation and reproductive impairment	NHMRC	\$967,750	2009-2013
Pow DV, Barnett NL, Provis J, Taylor S, Woodruff T, Kwan AS	Characterising novel therapeutic interventions in a new model of focal retinopathy	NHMRC	\$516,250	2009-2011
Pow D, Poronnik P, Colditz PB	A novel marker of distressed neurons in the hypoxic brain: Regulation, function and potential clinical utility	NHMRC	\$514,719	2009-2011
Lingwood B, Colditz PB, Lumbers ER, Evans N, Osborn DA	Improving outcomes for premature infants through effective maintenance of systemic blood flow	NHMRC	\$758,750	2009-2011
Bjorkman ST	GABA excitotoxicity neuroprotection and the perinatal brain	NHMRC	\$526,500	2009-2012
Callaway LK	Foundation Fellowship	RBWH Foundation	\$150,000	2009-2011

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Queensland Centre for Gynaecological Cancer

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.

It is the vision of QCGC Research to achieve financial stability by 2013, through the forming of strategic partnerships. 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 focus 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.



Assoc. Prof. James Nicklin
Clinical Director
Gynaecological Oncology

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. James Nicklin	MBBS, FRANZCOG, CGO	Clinical Director, Gynaecological Oncology	gynaecological oncology
Prof. Andreas Obermair	MD, FRANZCOG, CGO	Director, Research	gynaecological oncology
Dr Russell Land	MBBS, FRANZCOG, GradDip (Palliative Care), CGO	Visiting Medical Officer	gynaecological oncology
Dr Andrea Garrett	MBBS, FRANZCOG, DipPallCare, CGO	Staff Specialist	gynaecological oncology
Dr Jason Tan	MD, DO	Clinical Fellow	gynaecological oncology
Dr Neven Chetty		Clinical Fellow	gynaecological oncology
Judith Eddy	RN, RM	Gynaecological Oncology Case Manager	gynaecological oncology
Karen Sanday	BSc, HIM	Gynaecological Oncology Data Manager	gynaecological oncology
Dr Srinivas Kondalsamy-Chennakesavan	MBBS, MPH	Senior Research Fellow	gynaecological oncology
Trudi Cattley	BAppSc, GradCert (Clinical Trial Management)	Clinical Research Manager	clinical trials
Merran Williams	MHSc, Health Science/ Health Promotion	Project Manager; Volunteer Coordinator	gynaecological oncology
Fiona Menzies	BSc, DipPharmacy 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
Kate Russell	BSc	Clinical Trial Coordinator	clinical trials
David Hickey	BAppSc	Clinical Trial Coordinator	clinical trials
Kerry Millgate	BNurse, GradDip (Respiratory Sc)	Clinical Trial Coordinator	clinical trials
Genevieve Skinner	RN	Clinical Trial Coordinator	clinical trials
Anne Hughes	BSc	Clinical Trial Coordinator	clinical trials
Noel Lipscombe	BNurs, GradDip	Clinical Trial Coordinator	clinical trials
Samantha Gray	BBiotech	Clinical Trial Coordinator	clinical trials
Yen Tan	BSc, MSc (Epidemiology)	Clinical Trial Assistant	clinical trials

Supervised postgraduate students

Name	Current studies	Research topic
Tan Y	PhD	Australian Cancer Genetics - Motivators and barriers of referral
Noon L	PhD	Factors influencing uptake of genetic services

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Obermair A, Janda M, Forder P	LACE - Laparoscopic approach to carcinoma of the endometrium	Cancer Australia	\$585,250	2010-2012
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	National Gynaecological Cancers Service Delivery and Resources Framework	Cancer Australia	\$200,000	2009-2011
Obermair A, Janda M, Forder P	LACE - Laparoscopic Approach to Carcinoma of the Endometrium	RBWH - Near Miss	\$100,000	2011
Obermair A, Graves N	Analysis of cost effectiveness of total laparoscopic hysterectomy (TLH) relative to total abdominal hysterectomy (TAH) in early stage endometrial cancer	Ages	\$10,000	2011

Publications

Kondalsamy-Chennakesavan S, Gordon LG, Sanday K, Bouman C, De Jong S, Nicklin J, Land R, Obermair A. Hospital costs associated with adverse events in gynecological oncology. *Gynecol Oncol*. 2011 Apr;121(1):70-5. Times cited = 0; Impact Factor = 3.76

Obermair A, Mileschkin L, Bolz K, Kondalsamy-Chennakesavan S, Cheuk R, Vasey P, Wyld D, Goh J, Nicklin JL, Perrin LC, Sykes P, Janda M. Prospective, non-randomised phase 2 clinical trial of carboplatin plus paclitaxel with sequential radical pelvic radiotherapy for uterine papillary serous carcinoma. *Gynecol Oncol*. 2011 Feb;120(2):179-84. Times cited = 1; Impact Factor = 3.76.

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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*. 2011 Dec 3. [E-pub ahead of print] Impact Factor = 3.76.

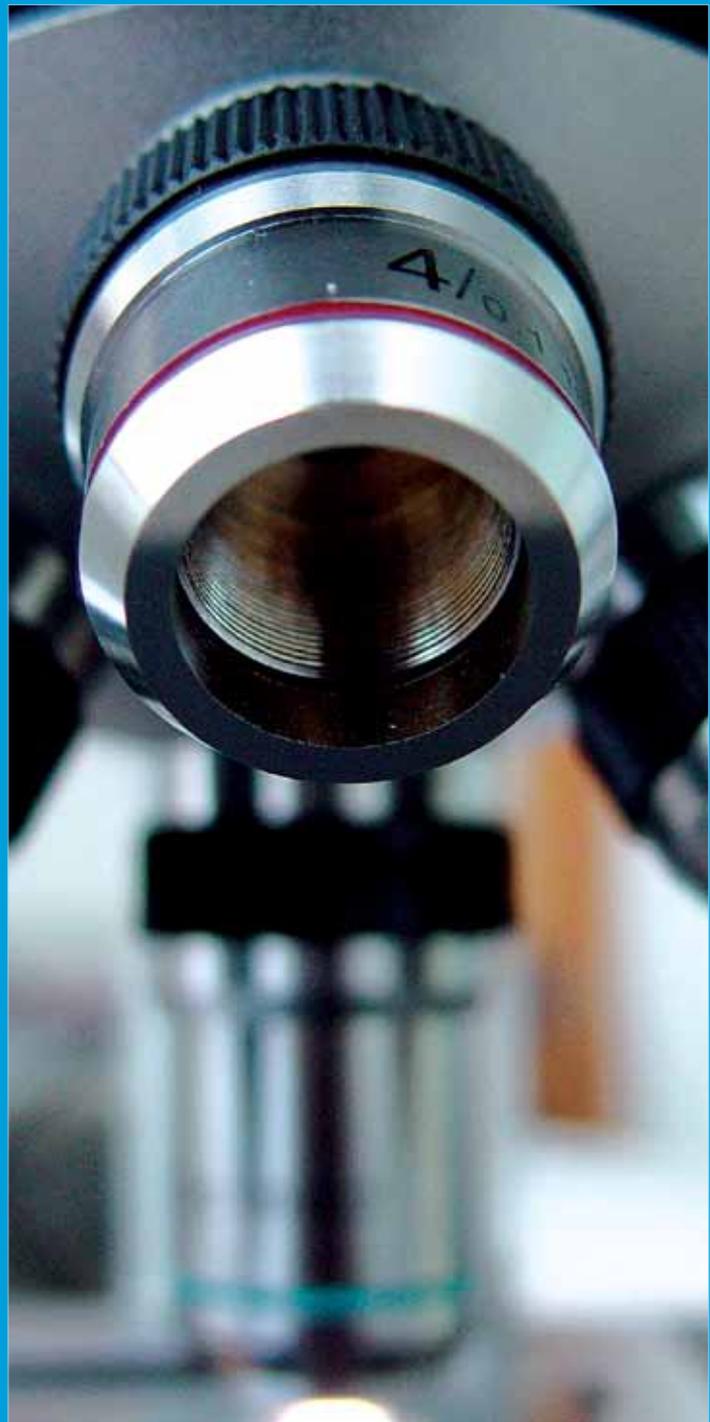
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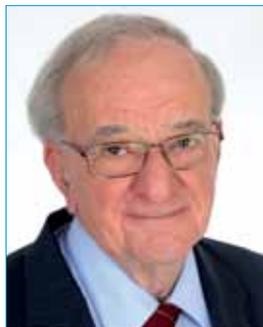
Finnane A; Hayes SC; Obermair A; Janda M. Quality of life of women with lower-limb lymphedema following gynecological cancer. Expert review of pharmacoeconomics and outcomes research. 2011;11(3):287-97. Times cited = 0; Impact Factor = unknown.

Harter P, Sehouli J, Reuss A, Hasenburg A, Scambia G, Cibula D, Mahner S, Vergote I, Reinthaller A, Burges A, Hanker L, Pölcher M, Kurzeder C, Canzler U, Petry KU, Obermair A, Petru E, Schmalfeldt B, Lorusso D, du Bois A. Prospective validation study of a predictive score for operability of recurrent ovarian cancer: The Multicenter Intergroup Study DESKTOP II. A project of the AGO Kommission OVAR, AGO Study Group, NOGGO, AGO-Austria, and MITO. *Int J Gynecol Cancer*. 2011 Feb;21(2):289-95. Times cited = 2; Impact Factor = 1.558.

Centre for the Advancement of Clinical Research



Centre for the Advancement of Clinical Research



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

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 programmes 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).

In accordance with the National Statement on Ethical Conduct in Human Research (2007), RBWH has separated the functions of ethical and scientific review, which is undertaken by the RBWH Human Research Ethics Committee (HREC) from those activities which fall into the realm of research governance. This is the framework by which an 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 2011, 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 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 2011 is 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 Pat)**, MBL, FRCPA, A/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, 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; Former Director, Sir Albert Sakzewski Virus Research Centre, RCH and Clinical Medical Virology Centre, The University of Queensland

Research staff

Name	Qualifications	Position	Interests/specialities
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	Administration Officer	financial management
Estelle Ellis		Personal Assistant to the Director	

Research grants

Investigators	Project 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 GJ, Walter P, Powell LW, Ramm GA, Subramaniam VN	Assessment of oxidant stress and mitochondrial dysfunction in young adults with iron loading diseases	NHMRC Project Grant 613689	\$591,525	2010-2012
Gurrin LC, Olynyk JK, Powell LW	Environmental risk factors for iron overload-related disease in a cohort study of hereditary haemochromatosis	NHMRC Project Grant 628697	\$149,013	2010-2011

Publications

Bertalli NA, Allen KJ, McLaren CE, Turkovic L, Osborne NJ, Constantine CC, Delatycki MB, English DR, Giles GG, Hopper JL, Anderson GJ, Olynyk JK, Powell LW, Gurrin LC and for the HealthIron Study Investigators. A comparison of self-reported and record-linked blood donation history in an Australian cohort. *Transfusion*. 2011;10:1537-1549.

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Eng KG, Powell LW, Olynyk JK. Natural history and management of HFE hemochromatosis. *Seminars in Liver Disease*. 2011;31(3):293-301.

Skoien R, Powell LW. HFE-associated Hereditary Hemochromatosis (Chapter 19). In *Iron Physiology and Pathophysiology in Humans*. Eds: Anderson GJ and McLaren G. Springer, New York. 2011;385-398.

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