

# Internal Medicine Services



**Kate Mason**  
Executive Director  
Internal Medicine Services

## Overview

Internal Medicine Services has a commitment to academic medicine, and translational research with areas of outstanding research productivity throughout our services and partnerships.

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

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

We continually improve our research profile by an increase in higher degrees, research presentations, research publications and 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.



**Sandy Jamieson**  
Nursing Director  
Internal Medicine Services

## Key departments

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

## Executive and directing staff

**Kate Mason**  
Executive Director, Internal Medicine Services

**Sandy Jamieson**  
Nursing Director, Internal Medicine Services

**Assoc. Prof. John Atherton**  
Director, Cardiology

**Dr Roger Prentice**  
Director, Clinical Immunology and Allergy

**Dr Paul Kubler**  
Director, Clinical Pharmacology

**Dr Ivan Robertson**  
Director, Dermatology

**Assoc. Prof. Michael d'Emden**  
Director, Endocrinology

**Dr Mark Appleyard Director**  
Gastroenterology and Hepatology

**Assoc. Prof. Julie McGaughan**  
Director, Genetic Health Queensland

**Assoc. Prof. Tony Allworth**  
Director, Infectious Disease

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

**Dr Andrew Wong**  
Director, Neurology and Stroke Services

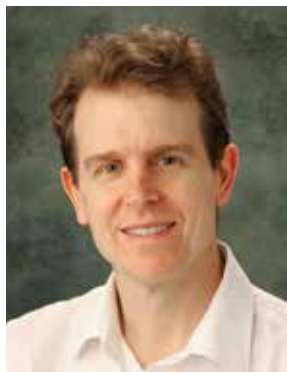
**Dr Carol Douglas**  
Clinical Director, Palliative Care

**Assoc. Prof. Ian Coombes**  
Director, Pharmacy

**Dr Helen Healy**  
Director, Renal Medicine

**Dr Paul Kubler**  
Director, Rheumatology

# Department of Cardiology



**Assoc. Prof. John Atherton**  
Director  
Cardiology

## Overview

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

**Highlights of 2014:** The evaluation of chest pain has involved a collaboration with the emergency department and internal medicine, and resulted in numerous collaborations internationally, successful grant funding, and industry partnerships. We have unique cardiac obstetric (collaboration with Internal Medicine and Obstetric Medicine) and cardiac genetic (collaboration with Genetic Health Queensland) clinics that receive state-wide referrals. We have steering committee membership on the European Cardiac Obstetric Registry (as the only Australian representative), and the Australian National Genetic Heart Disease Registry. We co-convened the inaugural International Clinical Cardiovascular Genetics Conference in 2014, and plan to convene the second meeting in 2016. We have a strong clinical trials research program and have been the lead national and global recruiting site for a number of multicentre trials.

**Benefits for clinical practice:** Research into the evaluation of patients presenting with chest pain is being actively translated into clinical practice throughout Queensland by the Health Innovation Fund supported Accelerated Chest pain Risk Evaluation (ACRE) clinical redesign project. This research is informing the evaluation of chest pain across Queensland and internationally. We have developed pathways to investigate families who have suffered a sudden death at a young age, which involves collaboration with clinical genetics, forensic pathology and the Coroner's office.

We have commenced a Cardiac Catheter Laboratory database with comprehensive mandatory complication tracking, which will inform the Queensland Cardiac Outcomes Registry and the Australian Cardiac Outcomes Registry. We informed the development of the state-wide heart failure outcomes reporting (HERO) database, which was commenced in January 2015. This will track process and outcome measures of healthcare for all patients referred to heart failure nursing services in Queensland.

We are investigating the role of training echocardiography-naïve nursing staff to assess LV function. This could allow a paradigm shift of echocardiography to affordable population screening and disease monitoring. We are collaborating with a QUT-based group of researchers to investigate the role of salivary biomarkers in heart failure and cardiovascular disease detection. This may allow non-invasive and cost-effective early disease detection and monitoring in heart failure.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>A/Prof John Atherton</b>	MBBS, PhD, FRACP, FCSANZ	Director of Cardiology	Heart failure, cardiac genetics, cardiac rehabilitation, economics
<b>Dr Anthony Brazzale</b>	MBBS	Cardiology Registrar	
<b>Dr Loretta Carr</b>	MBBS	Cardiology Registrar	
<b>Dr Charles Chao</b>	MBBS, FRACP	Cardiologist	Cardiac Imaging
<b>Dr Karin Chia</b>	MBBS, FRACP	Staff Cardiologist and Electrophysiologist	Electrophysiology
<b>Dr Julie Ch'ng</b>	MBBS, FRACP	Staff Cardiologist	Echocardiography
<b>Dr Claudia Cosgrove</b>	MBBS	Cardiology Registrar	
<b>Dr David Cross</b>	MBBS, FRACP, FCSANZ	Visiting Senior Cardiologist	Clinical trials, acute coronary syndromes
<b>Dr Arun Dahiya</b>	MBBS, FRACP	Staff Cardiologist	Multimodality imaging including echocardiography, cardiac CT and cardiac MRI
<b>Dr Mark Dooris</b>	MBBS (Hons Class 2) FRACP Grad Dip Sci (Mathematics), FCSANZ	Staff Interventional Cardiologist and Director of Cardiac Catheterisation Laboratory	Interventional cardiology, clinical audit, mathematics
<b>Ms Gae Goodman</b>	BN	Clinical trials coordinator	Clinical trials
<b>Dr Christopher Hammett</b>	BHB, MBChB, MD, FRACP, FCSANZ	Staff Interventional Cardiologist	Interventional cardiology, clinical trials, acute coronary syndromes

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Sam Hayman</b>	MBBS	Cardiology Registrar	
<b>Dr Samuel Hillier</b>	MBBS, M Phil	Cardiology Fellow	
<b>Ms Linda Hindom</b>	BN	Clinical trials coordinator	Clinical trials
<b>Dr Cleonie Jayasuriya</b>	MBBS, FRACP	Staff Cardiologist	Echocardiography
<b>Dr Katherine Lau</b>	MBBS	Cardiology Registrar	
<b>Ms Lydia Lilwall</b>	BN	Clinical trials coordinator	Clinical trials
<b>Dr Andrew Lin</b>	MBBS	Cardiology Registrar	
<b>Ms Ada Lo</b>	Grad Dip Appl Sci, Masters	Senior Echocardiographer	Echocardiography, cardiomyopathies, novel echocardiographic imaging techniques
<b>Dr Paul Martin</b>	MBBCh, MRCPI, FRACP, PhD, FCSANZ	Staff Cardiologist and Electrophysiologist	Electrophysiology, atrial fibrillation
<b>Dr Iman Mohasseb</b>	MBBS	Cardiac Imaging Fellow	
<b>Ms Leeanne Palethorpe</b>	BN	Clinical trials coordinator	Clinical trials
<b>Dr William Parsonage</b>	BMedSci (Hons) MBBS DM MRCP(UK) FRACP	Staff Cardiologist	Echocardiography, cardiac obstetrics, chest pain assessment, Fabry disease
<b>Dr Rohan Poulter</b>	MBBS, FRACP	Interventional Cardiology Fellow	Cardiac CT
<b>Dr Sandy Prasad</b>	MBBS, FRACP	Staff Cardiologist	Echocardiography
<b>Prof Adam Scott</b>	BSc PhD	Director of Cardiac Sciences	Exercise physiology, heart failure, clinical redesign, chest pain assessment, depression, non-physician led stress testing
<b>Dr Rajesh Shetty</b>	MBBS, MD (Internal Medicine), DM (Cardiology), FRACP	Staff Interventional Cardiologist	Interventional cardiology, pulmonary hypertension
<b>Dr Peter Stewart</b>	MBBS, FRACP	Staff Interventional Cardiologist	Interventional cardiology
<b>Dr Roger Wilkinson</b>	MBBS, FRACP, FCSANZ	Visiting Cardiologist	
<b>Dr John Younger</b>	MB BCh MRCP FRACP	Staff Cardiologist	Multimodality imaging including echocardiography, cardiac CT and cardiac MRI

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Guppy-Coles, K.	PhD, UQ, (2013-2016)	Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening.
Poulter, R.	PhD, UQ, (2012-2017)	Evaluating the diagnostic performance of dual energy cardiac computed tomography.
Lo, A.	PhD, UQ, (2012-2017)	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression.

## Awards and achievements

Award	Event	Recipient
Australian Postgraduate Award (APA) Scholarship Support	PhD	Guppy-Coles, K
Fellowship, Cardiac Society of Australia and New Zealand		Scott, A
Fellowship, American College of Cardiology		Scott, A
Fellowship, European Society of Cardiology		Scott, A
QuARRIES Award "Overall Superior Quality Achiever" – Non-physician led exercise stress testing, Royal Brisbane and Women's Hospital		Scott, A
QuARRIES Award "Access" – Non-physician led exercise stress testing, Royal Brisbane and Women's Hospital		Scott, A
Runner-up, Practitioner Award	Exercise and Sports Science Australia Conference, Adelaide, South Australia.	Scott, A
Australia Day Award, Metro North Hospital and Health Service, Queensland Health.		Scott, A

## Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Cullen, L.*, Parsonage, W.*, Than, M.*, Pemberton, C.*	Relationship between patient delay distribution and 12-month health outcomes.	National Heart Foundation of Australia, Project Grant	\$98 436 (2013-2014)
Dahiya, A.*, Atherton, J.*, Prasad, S.*	Evaluation of a training protocol for novice health professionals to evaluate left ventricular function using real-time, 3-dimensional echocardiography to allow screening for left ventricular systolic dysfunction in high-risk populations.	GE Healthcare Global Research, Investigator	\$36,454 (2013-2014)
Wu, J., Atherton, J.*, Chang, A., Courtney, M., Clark, A., Strodl, E., McPhail, S.	Improving delivery by Ehealth- Assurance for life for cardiac-diabetic patients.	Royal Brisbane and Women's Hospital 2013 Research grant Awards, Project Grant	\$36,000 (2013-2014)
Courtney, M., Wu, J., McPhail, S., Atherton, J.*	The Cardiac/Diabetes TRANS-CARE Program.	Australian Catholic University, Program	\$1,900,000 (2014-2017)
Cullen L,* Parsonage W.*	Accelerated Chest pain Risk Evaluation (ACRE) clinical redesign project	Health Innovation Fund, Project Grant	\$1,000,000 (2014-2016)

# Department of Clinical Immunology and Allergy



**Dr Roger Prentice**  
Director  
Clinical Immunology  
and Allergy

## Overview

**About this service:** 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.

## Research staff

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



# Department of Clinical Pharmacology



**Dr Paul Kubler**  
Director  
Clinical Pharmacology

## Overview

**About this service:** 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.

Clinical research projects focus on improving the quality of medication use, therapeutic drug monitoring and developing strategies to optimise the use of medicines in individuals. The unit is also involved in translating research into clinical practice to improve the quality of prescribing and administration.

## Research staff

Name	Qualifications	Position	Interests/specialities
Karen Davies	B Nursing	CNC Medication Safety	
Paul Kubler	MBBS FRACP	Director Clinical Pharmacology	





# Department of Endocrinology



**Assoc. Prof. Michael d'Emden**  
Director  
Endocrinology

## Overview

**About this service:** About this service: The Department of Endocrinology and Diabetes is staffed by 13 medical, two administrative officers, four allied health professionals, four research nurses, two diabetes nurse educators, one podiatrist, one dietitian and three scientists. Clinical services provided include in-patient consultative services at RBWH and specialised out-patient clinics at RBWH and Bundaberg Hospital.

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

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

Associate Professor Emma Duncan has a major role within the Department to promote and undertake research. There are now 3 doctoral students. The department has developed strong links with several research departments and has started major clinical studies in several areas including: HIV disease and bone, 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.

**Highlights of 2014:** Dr Don McLeod has joined the Department and is pursuing research in aspects of the epidemiology of Thyroid Cancer.

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

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Assoc Prof Michael d'Emden</b>	PhD, FRACP	Director Endocrinology	clinical trials, chronic disease, thyroid hormone action, testosterone transport
<b>Assoc Prof Emma Duncan</b>	PhD, FRACP	Senior Staff Specialist	genetics of endocrinology, clinical bone disease
<b>Dr Don McLeod</b>	BSc, MPH, PhD, FRACP	Staff Endocrinologist	thyroid disease
<b>Dr Maree Mungomery</b>	FRACP	Visiting Medical Officer	chronic disease, diabetes telehealth project
<b>Dr Kerry Richard</b>	PhD	Senior Scientist	thyroid hormone, iodine and placenta
<b>Dr Huika Li</b>	MB	Researcher	testosterone transport
<b>Dr Kelly Landers</b>	PhD	Research Assistant	thyroid hormone, iodine and placenta
<b>Erika Tapp</b>	BHlthSc	Research Assistant clinical trials	
<b>Helen Legg</b>	BNurs	Research Assistant clinical trials	
<b>Liz Lahz</b>	BNurs	Research Assistant clinical trials	

## Awards and achievements

Award	Event	Recipient
Best Clinical, Education, & Health Services Oral Presentation	23rd Annual RBWH Healthcare Symposium	Dr Don Mcleod



# Department of Gastroenterology and Hepatology



**Dr Mark Appleyard**  
Director  
Gastroenterology  
and Hepatology

## Overview

**About this service:** The RBWH endoscopy research program continues to have interests in endoscopy outcomes, novel imaging techniques in endoscopy, diagnostic and therapeutic small bowel endoscopy and endoscopic management of Barrett's oesophagus. The unit is one of the first sites in Australia to use the new digital platform for endoscopic examination of the biliary tree.

**Highlights of 2014:** In the past 12 months, the Inflammatory Bowel Diseases programme has developed novel strategies to study patient outcomes by using existing longitudinal laboratory data and in silico analysis. This has been successfully piloted in a Crohn's disease inception cohort by Dr James Irwin as part of his MPhil degree with the University of Queensland. The clinical and scientific programmes are coordinated by Associate Professor Graham Radford-Smith together with clinical and scientific colleagues. The group continues to coordinate the ANZ IBD Consortium with a major goal being the development of bespoke software for IBD management – to be launched in 2016. As part of our ongoing educational programme in clinical research, the IBD group continues to supervise medical students from the University of Queensland across a range of clinical and scientific projects. One of our previous students will be returning to the Gastroenterology unit at RBWH as a second year advanced trainee. A more extensive summary of the programme and achievements in 2014 is available through the QIMR Berghofer website or by contacting one of the team.

The colorectal cancer research group led by Professor Leggett is investigating how to prevent and treat bowel cancer by understanding the types of bowel polyps that it arises in and how different cancer subgroups respond to chemotherapy. We have identified that approximately 20% of bowel cancers arise in serrated polyps which were previously not targeted for removal at colonoscopy. The importance of this work has been recognised by Prof Leggett being invited to speak on the "Serrated neoplasia pathway: implications for screening and surveillance" at the World Endoscopy Organisation Colorectal cancer Screening Meeting, Digestive Diseases Week in Chicago in May 2014 and on "Serrated polyps and colorectal cancer" at the Brisbane Cancer Conference in December 2014. This work is reducing the risk of developing a colorectal cancer despite having undergone a colonoscopy which should provide protection from cancer.

The liver trials research group led by Professor Leggett and Dr Skoien conducts trials of new therapy for liver disease. During 2014 we had the opportunity to participate in trials of several of the new therapies for Hepatitis C. These therapies no longer include interferon injections and are proving to have a very high rate of cure with very few side effects. These treatments will revolutionise the management of Hepatitis C and reduce the burden of cirrhosis and hepatocellular carcinoma. Prof Leggett gave an invited presentation about the clinical impact of these therapies at the 18th GE Society of Queensland Annual Update at Noosa in May 2014.

Dr Skoien also leads a growing clinical and scientific research programme in the broader field of chronic liver diseases. He is a Visiting Scientist at QIMR Berghofer Medical Research Institute where, in collaboration with Prof Grant Ramm of the Hepatic Fibrosis group, he is investigating the role of microRNA as a novel diagnostic test of early hepatocellular carcinoma and potential non-invasive biomarker of fibrosis and predictor of cirrhosis-related complications. The Liver Unit has also developed a number of new clinical initiatives, including the development of a dedicated research database and serum bank of patients with chronic liver disease and a new model of surveillance for Hepatoma and Compensated Cirrhotic Follow-Up (the HACC-FOL programme), which delivers more efficient clinical resource utilisation and improved cost-effectiveness.

Dr Grimpen's ongoing research interests include AUSFAP study, development of 2D visibility map as evaluation tool in colonoscopy (collaboration with CSIRO), development of colonoscopy simulator, colonoscopy preparation for capsule endoscopy (multicentre), and a multicentre study into adenoma detection rate.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Mark Appleyard</b>	MBBS, FRACP	Director of Gastroenterology and Hepatology	Small Bowel Endoscopy
<b>A/Prof Graham Radford-Smith</b>	DPhil FRACP	Senior Staff Specialist (Pre-eminent), Honorary Group Leader, QIMR Berghofer	Inflammatory Bowel Disease, TPN, intestinal biomarkers
<b>Prof Barbara Leggett</b>	MD FRACP	Pre-eminent Staff Specialist	Colorectal Cancer, Hepatology
<b>Dr Richard Skoien</b>	BA, LLB, BSc, MBBS, FRACP, PhD	Staff Specialist – Hepatology	Viral hepatitis, non-alcoholic fatty liver disease, non-invasive assessment of liver disease, liver cancer
<b>Prof Lawrie Powell</b>	AC, MD, PhD, DUniv, FRACP, FRCP, FRCPT	Director of Research; Senior Staff Specialist	Haemochromatosis
<b>Dr Florian Grimpen</b>	MD FRACP	Staff Specialist – Endoscopy/GE	Interventional Endoscopy
<b>Dr Mariko Howlett</b>	MBBS, FRACP	Senior Staff Specialist – IBD/GE	Inflammatory Bowel Diseases

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Georgia Hume</b>	MBBS (Hons), FRACP, PhD	Staff Specialist	Inflammatory Bowel Diseases
<b>Dr John Croese</b>	MBBS, FRACP	Staff Specialist – Gastroenterology	Gastroenterology
<b>Dr Matthew Remedios</b>	MBBS, FRACP	Staff Specialist – Endoscopy	Interventional Endoscopy
<b>Dr Marnie Wood</b>	MBBS, FRACP	Staff Specialist – Hepatology	Clinical Hepatology
<b>Dr Andrew Hallam</b>	MBBS, FRACP	Visiting Medical Officer – Hepatology	Clinical Hepatology
<b>Dr Ben Devereaux</b>	MBBS, FRACP	Visiting Medical Officer – Endoscopy	Interventional Endoscopy
<b>Dr Patrick Walsh</b>	MBChB, FRACP	Visiting Medical Officer – Endoscopy	Interventional Endoscopy
<b>Dr James Irwin</b>	MBBS, FRACP	IBD Research Fellow, MPhil student	Inflammatory Bowel Diseases
<b>Dr Phoebe Thwaites</b>	MBBS	Medical Registrar	Inflammatory Bowel Diseases research
<b>Dr Jason Hwang</b>	MBBS, FRACP	Endoscopy Registrar	Interventional Endoscopy
<b>Dr Estella Johns</b>	MBBS, FRACP	Endoscopy Fellow	Interventional Endoscopy
<b>Ms Yoon An</b>	MBBS	Medical Intern	Clinical Endoscopy Research
<b>A/Prof Vicki Whitehall</b>	PhD	Supervising Scientist	Colorectal Cancer
<b>Dr Catherine Bond</b>	PhD	Postdoctoral Scientist	Colorectal Cancer
<b>Dr Winnie Fernando</b>	PhD	Postdoctoral Scientist	Colorectal Cancer
<b>Troy Dumenil</b>	MAppSci	Research Assistant	Colorectal Cancer
<b>Sally Pearson</b>	Diploma Laboratory Techniques	Research Assistant	Colorectal Cancer
<b>Diane McKeone</b>	Diploma Laboratory Techniques	Research Assistant	Colorectal Cancer
<b>Tracie Corish</b>	BNurs	Research Assistant	Colorectal Cancer
<b>Deborah D’Arcy</b>	BNurs	Clinical Nurse Consultant	Liver Trials
<b>Rita Marangone</b>	BNurs	Clinical Nurse	Liver Trials
<b>Jo Mina</b>	BNurs	Clinical Nurse	Liver Trials
<b>Olivia Cullen</b>	BNurs, BSc	Clinical Nurse Consultant	HCC Surveillance, HACC-FOL
<b>Mrs Katherine Hannigan</b>	BSc (Public Health)	Senior Research Assistant	Inflammatory Bowel Diseases
<b>Ms Lisa Simms</b>	BSc (Hons)	Senior Scientist	Inflammatory Bowel Diseases
<b>Ms Kylie Mesquita</b>	BSc	Research Assistant	Inflammatory Bowel Diseases
<b>Ms Krupa Krishnaprasad</b>	BSc	Senior Research Assistant	Inflammatory Bowel Diseases (ANZIBDC)
<b>Ms Madonna McIntyre</b>	BNurs	Clinical Nurse	Inflammatory Bowel Diseases
<b>Ms Allison Brown</b>	BNur	Clinical Nurse	Inflammatory Bowel Diseases
<b>Mrs Chantal Tabrett</b>	BNurs	Clinical Nurse	Interventional Endoscopy

## Supervised post-graduate research students

Name	Current studies University ; (duration)	Research topic
Dr Mark Bettington	PhD	Identification of molecular features of high risk colorectal polyps
Dr Catherine Bond	PhD submitted 2014	Molecular features distinguishing microsatellite stable versus microsatellite instability high serrated pathway tumours
Dr Winnie Fernando	PhD awarded 2014	Molecular pathogenesis of serrated carcinoma of the colon
Ms Anna Weiss	PhD	Using biomarkers and liver stiffness to detect stage and progression of disease and identify patients at highest risk of cirrhosis-related mortality
Dr James Irwin	MPhil	Longitudinal Predictors of Poor Outcome in Crohn's Disease

## Awards and achievements

Award	Event	Recipient
Young Investigator Award - Second Prize	Gastroenterology Society of Queensland	James Irwin
Investigator Award - Finalist	Gastroenterology Society of Queensland Young	Mark Bettington
Australian Gastroenterology Week Poster of Merit		Mark Bettington
Best Basic Science Oral Presentation	RBWH Healthcare Symposium	Vicki Whitehall
Australian Gastroenterology Week Poster of Merit		Vicki Whitehall

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Appleyard M	The effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients	Cancer Council	\$200,000 (2014-2016)
Whitehall V and Leggett B	KRAS- and BRAF-Mediated Methylation Signatures in Colorectal Cancers and Polyps	NHMRC	\$425,636 (2013-2015)
Whitehall, Leggett, Bettington	Wnt and MAPK Signalling in the Determination of Colorectal Neoplasia Pathway	NHMRC	\$383,447 (2014-2016)
Leggett, Whitehall, Bond	Down-regulation of the Tumour Suppressor PRDMS in Sporadic Colorectal Cancer and Precursor Subgroups	RBWHRF	\$64,600 (2014)
Burge, Whitehall, Leggett, Wyld	The Royal Brisbane and Women's Hospital and The Prince Charles Hospital Metastatic Colorectal Cancer Database: A prospective Observational Cohort Study Examining Clinical and Molecular Biomarkers	RBWHRF	\$50,000 (2014)
Van der Pols J, Leggett B, Bain C, Hewett D, Whitehall V	Risk factors for sessile serrated adenoma	Cancer Council Qld	\$200,000 (2014-2015)
Radford-Smith G, Montgomery G, Lawrance I	Genomic Medicine: Predictors of refractory UC and response to treatment	NHMRC	\$849,261 (2014-2015)
Radford-Smith G, Keely S	Serum hypoxia markers as biomarkers for IBD	RBWHRF	\$58,000 (2014)
Radford-Smith G, Simms L	Optimizing the use of colonoscopy in Queensland	QIMR Berghofer RTRCC	\$103,500 (2013-2014)





# Department of Genetic Health Queensland



**Assoc. Prof. Julie McGaughran**  
Director  
Genetic Health Queensland

## Overview

**About this service:** Genetic Health Queensland is a state-wide service which provides clinical genetics services for the whole 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, Rockhampton, Bundaberg, Toowoomba, Nambour and Gold Coast.

**Highlights of 2014:** There are 6 consultant staff positions (currently only 5 occupied), 2 advanced trainees and an intern on elective placement. As a state-wide service, GHQ contributes to education and grand rounds both at RBWH and LCCH 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 have undertaken their practical training in the department. The Queensland Familial Cancer Registry is also part of the department. There are 2 research nurses who are part of the KConFab cancer research group. There is a research assistant employed by the ICCOn familial cancer project. There is a weekly in service, journal club and clinical review meeting. Research interests include dysmorphology, prenatal genetics, cardiac genetics, renal genetics and cancer genetics.

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

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>A/Prof Julie McGaughran</b>	BSc (Hons), MB ChB (Hons), MD, FRCP, FRACP	Director	Dysmorphology, cardiac genetics
<b>A/Prof Michael Gabbett</b>	MBBS, MMedSc, FRACP, AFRACMA	Senior Staff Specialist	Prenatal genetics, paediatric genetics
<b>Dr Michael Gattas</b>	MB BS, FRACP	Senior Staff Specialist	
<b>Dr Rachel Susman</b>	BSc MBBS MRCP FRACP	Staff specialist	Cancer genetics
<b>Dr Chirag Patel</b>	MD, MRCPCH, FRACP	Staff Specialist	Paediatric genetics, renal genetics
<b>Dr Helen MarFan</b>	MBBS, MMedSc, FRACP	Staff Specialist	Cancer genetics
<b>Jennifer Berkman</b>	BSc (Hons), MSc, FHGSA	Senior Genetic Counsellor	Cancer and general genetics
<b>Lauren Hunt</b>	BSc, MSc (Hons), FHGSA	Genetic Counsellor	Prenatal screening, cardiac genetics
<b>Jan Wakeling</b>	BSc (Hons), MSc	Associate Genetic Counsellor	Cancer genetics
<b>Pauline McGrath</b>	MNursL, FHGSA	Senior Genetic Counsellor	Prenatal diagnosis/screening
<b>Vicki Fenelly</b>	BN	Research nurse	
<b>Allison Wicht</b>	BN	Research nurse	
<b>Rachel Austin</b>	MSc (Hons)	Clinical research assistant	ICCon State co-ordinator

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Rutstein, A.	Masters (genetic counselling), Griffith University, (2013 -2014)	Optimising genetic counselling support for individuals and families affected by Alport Syndrome - a qualitative study

## Awards and achievements

Award	Event	Recipient
Churchill Fellowship	Winston Churchill Memorial Trust	McGrath, P.
Investigator Finalist	International Clinical Cardiovascular Genetics Conference	Hunt, L.

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Julie McGaughran	The Inherited Cancer Connect (Iccon) Partnership. Chief Investigator (16).	Cancer Council of NSW, Strategic Research Partnership Grant	\$1,964,769 (2013-2018)
Helen Mar Fan, Rachel Susman, Barbara Leggett, Vicki Whitehall	Study into hereditary flat adenoma syndrome	RBWH Foundation, Research Initiative Grant	\$31,800 (2014-2015)
Pauline McGrath	To review the delivery of counselling support for women undergoing new prenatal technology	Winston Churchill Memorial Trust, Research Grant	\$22,000 (2014)
Jennifer Berkman, Julie McGaughran, Jan Wakeling, Julie White, Val Hyland, John Rowell, Glenn Francis	Indirect BRCA1/2 gene testing: development of a protocol for testing in families without a living cancer-affected family member	RBWH Private Practice Trust Fund, Research Grant	\$30,000 (2013-2014)

# Department of Infectious Diseases Unit



**Assoc. Prof. Tony Allworth**  
Director  
Infectious Disease

## Overview

**About this service:** The Infectious Diseases Unit is a broad based multi-disciplinary Unit providing a range of services both across the RBWH campus and beyond. It has a major role as a consultative service for the clinical management of patients with infectious diseases problems across all disciplines. The inpatient activity of the Unit is focused on care of patients with complex infectious diseases such as HIV, and other specialised infectious diseases such as malaria, melioidosis, encephalitis, and meningitis. The Unit is also an isolation ward for patients colonised with multiresistant organisms, those infected with airborne pathogens such as tuberculosis, varicella, SARS and influenza, and it includes the high containment unit for the management of organisms such as those causing viral haemorrhagic fevers, a facility that was utilised successfully on a number of occasions in the context of concerns regarding potential cases of Ebola virus disease. 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 out-patient therapy and the placement of peripherally inserted central catheters (PICCs). The Unit also is the hub for the RBWH Hospital in the Home Program, and the Antimicrobial Stewardship Program of RBWH. 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 Vascular Access Surveillance and Education Unit focuses on education and support of clinical areas regarding the insertion, management and care of vascular access in inpatients throughout the hospital. The service continues to conduct a twice-yearly IV cannulation course for both Queensland Health and external clients, including Graduate Medical Course students. The Health Care Worker Vaccination Service contributes to the health and wellbeing of our staff by providing advice and vaccinations for health care workers, and has a major role in the annual Influenza immunisation program.

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. Professor McCarthy's research group investigates how parasites such as the malaria parasite, hookworm, threadworm and scabies cause disease and how they become resistant to drugs used to treat them. The group also identifies new drugs and drug targets, and develops novel diagnostic techniques. The focus of this group is to apply modern techniques in microbiology, molecular biology and immunology to study clinical problems associated with infectious diseases in tropical environments. A particular interest in this laboratory is the study of drugs and drug resistance in a range of parasites, and the development of novel diagnostic techniques.

**Highlights of 2014:** The research interests of the unit are diverse including antimicrobial therapies and resistance, epidemiology especially in the nosocomial setting, parasitology and its overlap with other disciplines including HIV medicine, and immunological diseases and zoonotic infections.

The major focus of Professor McCarthy's group in 2014 was to evaluate the activity of experimental antimalarial drugs. Particular highlights have included: The discovery that the experimental antimalarial DSM265 has very promising antimalarial activity; Successful completion of a Pre-IND with the USA FDA for a genetically modified malaria vaccine, and; the finding that certain antimalarial drugs likely make people treated with them infectious to mosquitoes.

The major focus of Professor Paterson's group in 2014 was to initiate randomised controlled trials in hospital-based infectious diseases. The MERINO trial (a multicountry study of meropenem versus piperacillin/tazobactam for bacteremia due to ESBL producing organisms) was initiated in February 2014, with the first patients enrolled worldwide coming from the RBWH.

**Benefits for clinical practice:** Our research aims to provide optimum care for patients with infections across the spectrum of pathologies. This is exemplified by Prof McCarthy's group who work testing new antimalarial drugs is playing a key role in advancing new treatments for malaria into the clinic, and Prof Paterson's group performing investigator-initiated randomised trials searching for the best ways to treat multiresistant bacteria.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Associate Professor, Tony Allworth</b>	MBBS (Hons 1), FRACP, FRCPA, FACTM, MASM	Director, Infectious Diseases, Visiting Scientist, UQ CCR	HIV/AIDS, antibiotic resistance, influenza, therapeutic trials
<b>Dr Krispin Hajkowicz</b>	MBBS, FRACP	Consultant Physician, Infectious Diseases Unit and Internal Medicine & Aged Care	Hospital in the Home, Antimicrobial Stewardship, Viral hepatitis

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Professor James McCarthy MD</b>	FRACP, DH&TM (Lon)	Consultant Physician, Infectious Diseases Unit, Visiting Scientist QIMR, Infectious Diseases	Parasitology, Malaria, Vaccine trials
<b>Prof David Paterson</b>	MBBS, FRACP, FRCPA	Consultant Physician, Infectious Diseases Unit, Microbiologist, Pathology Queensland, Professor Infectious Diseases, UQ	Antimicrobial resistance, Infections in ICU
<b>Dr Andrew Redmond</b>	MBBS, FRACP	Consultant Physician, Infectious Diseases Unit, Visiting Scientist QIMR Berghofer, Infectious Diseases	HIV and sexually transmitted infections
<b>Associate Professor Marion Woods MD,</b>	MPH, FRACP, FACP, FAFPHM	Consultant Physician, Infectious Diseases Unit, Visiting Scientist QIMR, Infectious Diseases	Clinical epidemiology, HIV, Disease Pathogenesis
<b>Mr Geoff McQueen</b>	Bach Nurs	Nurse Unit Manager, Wattlebrae	
<b>Ms Michelle Doidge</b>	Bach Nurs	CNC, Infection Control	
<b>Mr Michael Terry</b>	Bach Nurs	CNC, Infection Control	
<b>Stacey Llewellyn</b>	BAppSc(hons)	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	Intestinal parasites/molecular detection methods
<b>Ryan Farid</b>	BSc, GCEcon	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	Cell biology, biochemistry, PCR
<b>Rebecca Pawliw</b>	B App Sci, B App Sci (hons)	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	Virology, Rickettsiology
<b>Melanie Rampton</b>	B BiomedSc(hons), BMedHealthSci	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	Molecular Biology
<b>Romal Stewart</b>	B BiomedSc(hons)	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	
<b>Katharine Trenholme</b>	BSc, MSc, PhD	Senior Research Fellow, Clinical Tropical Medicine, QIMR Berghofer MRI	
<b>Cielo Pasay</b>	BHLthSc, MPH, PhD	Research Officer, Clinical Tropical Medicine, QIMR Berghofer	
<b>Mallory King</b>	B BiomedSc(hons)	Research Assistant, Clinical Tropical Medicine, QIMR Berghofer	

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Britton, S.	PhD UQ (2011-2015)	Plasmodium vivax high-throughput loop mediated isothermal amplification (LAMP): improving the diagnostic repertoire for malaria elimination
Butterworth, A.	PhD UQ (2011-2014)	Targeting Plasmodium falciparum gametocytes
Griffin, P.	MPhil UQ (2014-2016)	Clinical trial of antimalarial drugs
Aghazadeh, M.	PhD UQ (2012-2015)	Angiostrongyloidiasis in Brisbane
Rogers, B.	PhD UQ (2012-2015)	Risk factors for ESBL producing organisms
Harris, P.	PhD UQ (2014-2017)	Optimal therapies for ESBL producing organisms
McCarthy, K.	PhD UQ (2012-2017)	Pseudomonas aeruginosa bloodstream infections
Zowawi, H.	PhD UQ (2012-2015)	Multiresistant organisms in the Gulf Cooperation States



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## Awards and achievements

Award	Event	Recipient
QIMRB MRI Higher Degrees Committee Travel Award	International Conference on Research into Plasmodium vivax (ICRPV5) 2015	Britton, S.
Elsevier Clinical Research Award	ASTMH	Griffin, P.



# Department of Internal Medicine and Aged Care



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

## Overview

**About this service:** The Internal Medicine Research Unit supports a broad range of investigator initiated research across the lifespan, from pre-conception to old age. Our main areas of research investigate the care and outcomes of acutely hospitalised older people; people with chronic disease; and pregnant women.

**Highlights of 2014:** We continue to develop skilled postgraduate researchers, enhancing our capacity to conduct large scale collaborative trials and developing increasing national and international links. We are proud of our record in translation of research findings into practice, emphasising the role of strong clinical-academic partnerships. For example, in 2014 Dr Mudge and collaborators obtained a \$1.5 million Queensland Accelerate Partnership grant to investigate the scalability and transferability of a successful pilot model for improving care of hospitalised elders; Ms Adsett helped lead development of an enhanced web resource for health care providers in cardiovascular disease; and Dr Lust led review of state-wide guidelines in obstetric medical practice.

**Benefits for clinical practice:** Our health services research programme continues to deliver directly measureable benefits to older patients, with documented improvement in clinical outcomes (geriatric syndromes and discharge home) and length of stay for older inpatients.

Our clinical trials are testing a variety of clinical interventions, including new drugs, bioactive supplements, and non-pharmacological interventions which offer the potential to improve health and/or reduce costs in a range of health conditions.

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

We are developing strong national and international collaborations which will enhance the generalisability and impact of our research.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Adj Prof Alison Mudge</b>	PhD, FRACP, MBBS (Hons), Grad Cert Health Ec	Health and Medical Research Fellow; Clinical Director Research and Education, IMAC	Health services research, geriatrics
<b>Assoc Prof Charles Denaro</b>	MD, FRACP, MBBS	Director, Internal Medicine and Aged Care	Clinical pharmacology
<b>Peter Donovan</b>	MBBS FRACP BAppSc Grad Cert(Pharmacoeconomics)		
<b>Prof. Leonie Callaway</b>	MBBS(Hons), FRACP, PHD, GCE Lead	Head RBWH Clinical School Staff Specialist General & Obstetric medicine	Obstetric medicine
<b>Dr Karin Lust</b>	MBBS, FRACP	Clinical Director of Obstetric Medicine & Staff Specialist General medicine	Obstetric medicine
<b>Dr Narelle Fagermo</b>	MBBS, FRACP	Staff Specialist General & Obstetric medicine	Obstetric medicine
<b>Dr Penny Wolski</b>	MBBS, FRACP	Staff Specialist Endocrinology & Obstetric medicine	Obstetric medicine
<b>Dr Helen Barrett</b>	BSc(Hons)MBBS(Hons) FRACP	Staff Specialist Endocrinology & Obstetric medicine	Obstetric medicine
<b>Dr Marloes Dekker Nitert</b>	MSc, Med Lic, PhD, GCE (clinical trials)	Senior Research Fellow, Royal Brisbane Clinical School	
<b>Julie Adsett</b>	BPhy (Hons)	Senior Physiotherapist, Heart Failure Service	Exercise training and chronic disease
<b>Jessica Suna</b>	BN, B App Sci, M Hlth Sci (Res)	Project coordinator/Nurse Researcher	Clinical trials, health services research
<b>Diane Bookless</b>	BN, Grad Dip (Community Health), RM	Research Assistant	Clinical trials, health services research
<b>Katie Foxcroft</b>	RN, RM, MApp Sc (Research)	Coordinator Nurse Research	Obstetric medicine, clinical trials
<b>Lisa Mitchell</b>	RN, MSc(Health Practice)	Project coordinator / Nurse Researcher	Health service improvement
<b>Xanthe Sansome</b>	B Phy	Research Assistant	Clinical trials

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Naomi Achong	PhD, UQ, (2012-)	Insulin requirements in the Peripartum period in type 1 diabetes mellitus
Julie Adsett	PhD, Griffith Uni, (2012-2017)	Aquatic exercise for patients with stable heart failure
Luisa Gomez Arango	PhD, UQ, (2014-2017)	The gut microbiome in overweight and obese pregnancy
Helen Barrett	PhD, UQ, (2011-2014)	Maternal Lipids in Pregnancy
Fiona Britten	PhD, UQ, (2015-2018)	Breastfeeding in Type 2 diabetes mellitus
Jill Campbell	PhD, QUT (2013-2016)	Candida colonisation and incontinence associated dermatitis
Susan deJersey	PhD, QUT, (2011-2014)	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy
Lisa Harris	PhD, UQ, (2012-)	Pre-Eclampsia: Early identification of at-risk patients and clinical implications
Kristine Matusiak	MPhil, UQ, (2012-2016)	Periconceptional weight loss and the HPA axis in neonates
Prue McRae	M Phil, UQ, (2012-2015)	Understanding the occurrence of geriatric syndromes in older surgical patients
Brooke Myers	PhD, UQ, Upgraded to PhD studies 2014, expected completion 2017	Role of the pharmacist on the post-take medical ward round
Helen Robinson	PhD, UQ, (2015-2018)	Carbohydrate restriction and ketones in pregnancy

## Awards and achievements

Award	Event	Recipient
Heart Foundation Collaboration and Exchange Award	Travel and attendance to a research group in France and European Society of Cardiology Heart Failure Congress in Athens	Julie Adsett
Professor William Burnett Research Fellowship,	UQ, School of Medicine 2013-2015	Prue McRae
Patricia Dukes Postdoctoral Fellowship		Alison Mudge
Health and Medical Research Fellowship		Alison Mudge

## Research grants

Investigators *RBWH researcher	Project title	Granting body and scheme	Amount awarded (years)
Adsett J*, Mudge A*, Morris N	Effect of aquatic exercise on physiological parameters for patients with stable heart failure	RBWH, Foundation Grant 2014	\$8527.50 (2014-2015)
Adsett J*, Mudge A*, Morris N	Safety and efficacy of aquatic exercise in patients with stable heart failure	National Heart Foundation of Australia, Post graduate scholarship	\$71,439.50 (2012-2017)
Callaway L*, Dekker Nitert M,* Barrett HL*, Morrison M	How important is a mother's touch?	RBWH Foundation, Project	\$40,000 (2014)
Callaway LK, McIntyre HD, Dekker Nitert M,	Spring : Can administration of probiotics prevent gestational diabetes: a randomised controlled trial.	NHMRC, Project	\$828,717 (2012-2016)

## Research grants

Investigators *RBWH researcher	Project title	Granting body and scheme	Amount awarded (years)
Czovek D, Sly P, Callaway L*, McIntyre HD, Dekker Nitert M*	Longitudinal effects of probiotic supplementation during pregnancy on the body composition and growth of infants	Queensland health Strategic Health Initiatives, Project	\$78,000 (2014)
Donald McLeod, Peter Donovan*, Michael Keogh	Treat to target TRAb in Graves' disease	RWBH Foundation, Project	\$41,170 (2014)
Donovan P*, Duncan E, Mudge A*, Rowlands C, Tesar P	Teriparatide for pelvic fracture healing	RBWH Foundation, New specialist grant	\$50,000 (2013-2014)
Douglas C, Blaber C, Mudge A* and EOLC committee	Point prevalence survey of end of life predictors and care in a major tertiary hospital	MNHHS, SEED	\$75,000 (2014-2015)
Hickey A, Adsett J*	HEART Online enhancement project	Clinical access and redesign unit, Contracted	\$136,000 (2014-2015)
Lust K*, Matusiak K, Callaway L K*, Dekker Nitert M*, Barrett HL*	Periconception weight loss and the epigenetic regulation of stress and growth in the infant	RBWH foundation, Project	\$40,000 (2014)
Mudge A*, McRae P	Improving care of older orthopaedic patients: Eat Walk Engage	MNHHS, SEED	\$90,000 (2013-2014)
Mudge A, Banks M, Barnett A, Blackberry I, Chang A, Graves N, Hubbard R, Inouye S, Kurrle S, Lim K, McRae P, Peel N, Young A	CHERISH: Collaborative for Hospitalised Elders Reducing the Impact of Stays in Hospital	Queensland Government, Accelerate Partnership	\$1,600,000 (2014-2017)
Thoms LM, Sly P, Callaway L*, Dekker Nitert M*, Barrett H*	Study of environmental pollutants—transfer from mother to fetus	QCMR and QUT collaborative seeding grants scheme, Project	\$25,000 (2014)
Young A, Mudge A*, Banks M, Isenring E, Ross L, Kimble R, Whiting E	Hospital to home outreach for malnourished elders (HHOME)	Australian Centre for Health Service Innovation, Strategic Grant	\$75,000 (2013-2014)



# Department of Neurology



**Dr Andrew Wong**  
Director  
RBWH Neurology and Stroke  
Snr Neurologist, TPCH

## Overview

**About this service:** The RBWH Neurology Department provides general neurology and subspecialty care to RBWH, Metro North HHS and many areas within Queensland. We have a strong interest in research in the fields of stroke, multiple sclerosis, motor neuron disease, epilepsy, movement disorders, neuropathy and neuroimmunology.

**Highlights of 2014:** Many of our staff members engage in university-based clinician-led research and research higher degree supervision, especially with the University of Queensland. We also collaborate with researchers around Australia and internationally in large multi-centre studies.

Members of the epilepsy group won the international seizure prediction contest, beating 504 other international groups. This was a competition hosted by the American Epilepsy Society, NIH and NINDS.

after stroke. Our epilepsy work includes prediction of seizures, imaging of the neurological structures involved in epilepsy and studying the complications of epilepsy. We research mood disorders (e.g. anxiety and depression) in Parkinson's disease including diagnosis, management with psychotherapy and understanding the neuropsychology of the processing of emotion in Parkinson's disease. The results of our research change clinical practice both at a local level and through contributing evidence for the development of national guidelines.

**Benefits for clinical practice:** We research neurological conditions to investigate why disease occurs in the nervous system, how it causes illness and how we might diagnose and treat these conditions better. Our research includes understanding the mechanisms behind motor neuron disease and identifying biomarkers for disease onset and progression. We study advanced imaging in the emergency diagnosis of stroke and how this may guide experimental therapies applicable within the first few hours

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Professor Pamela McCombe</b>	BSc, MBBS (Hons), PhD, FRACP	Senior Neurologist	Motor Neuron Disease (MND), immune responses in Stroke/ Inflammatory Neuropathy
<b>Professor David Reutens</b>	MBBS, MD, FRACP	Senior Neurologist	Epilepsy
<b>Assoc Prof John O'Sullivan</b>	MBBS, PhD, FRACP	Senior Neurologist	Movement disorders
<b>Assoc Prof Lata Vadlamudi</b>	MBBS, PhD, FRACGP, FRACP	Senior Neurologist	Epilepsy
<b>Dr Stefan Blum</b>	Dr. Med, FRACP	Neurologist	Neuroimmunology
<b>Dr Robert Henderson</b>	MBBS, PhD, FRACP	Senior Neurologist	Motor Neuron Disease (MND)
<b>Dr Andrew Wong</b>	MBBS (Hons), PhD, FRACP	Senior Neurologist, Director, RBWH Neurology and Stroke	Stroke
<b>Dr Stephen Read</b>	MBBS, PhD, FRACP	Honorary Neurologist	Stroke
<b>Dr Rodney Marsh</b>	MB BS FRANZCP	Visiting Psychiatrist	Neuropsychiatry
<b>Dr Philip Mosley</b>	MB BS	Neuropsychiatry Fellow	Neuropsychiatry
<b>Dr Zara Ioannides</b>	MBBS, BSc (Hons)	Advanced Trainee, Neurology	
<b>Dr Annemarie Van Heuven</b>	MBBS	Advanced Trainee, Neurology	
<b>Dr Kimberley Forrest</b>	BSc MB BS	Research Fellow	Movement Disorder, Neuromuscular
<b>Genevieve Skinner</b>	RN	Stroke Research Coordinator	Stroke
<b>Tennille Rowland</b>	BOccThy, MPhil	Occupational Therapist	Stroke
<b>Amy Jones</b>	BN	Clinical Research Nurse	Movement disorders, Parkinson's disease
<b>Anna Nolan</b>	BN	Clinical Research Nurse	Huntington's disease Friedreich's Ataxia
<b>Professor Alan Coulthard</b>	BMedSci, MBBS, FRCSEd, FRCR, FRANZCR	Deputy Director Medical Imaging Research; Senior Interventional Neuroradiologist	Collaborator

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr John Clouston</b>	MBBS, FRANZCR	Director, Department of Medical Imaging; Senior Interventional Neuroradiologist	Collaborator
<b>Dr Ken Mitchell</b>	MBBS, DRANZCR, FRANZCR	Senior Interventional Neuroradiologist	Collaborator
<b>A/Prof David Copland</b>	BSpPath, PhD	ARC Future Fellow and UQ Principal Research Fellow, UQCCR & School of Health & Rehabilitation Sciences	Collaborator
<b>Dr Nadeeka Dissanayaka</b>	BSc (hons 1), PhD	Lions Medical Research Fellow	Neuropsychiatry in Parkinson's disease
<b>Tiffany Au</b>	BSc (hons)	Research Assistant	Parkinson's disease
<b>Dr Simon Finnigan</b>	BSc, PhD	Senior Research Fellow, UQCCR	Collaborator
<b>Dr Kimberley Forrest</b>	MBBS, B Sc	Research Fellow, RBWH	MND/ movement disorders
<b>Dr Shyuan Ngo</b>	B Sc, Ph D	Research Fellow, UQ	Metabolic dysfunction in MND / biomarkers in MND
<b>Assoc Professor Peter Noakes</b>	B Sc(Hons), Ph D	Associate Professor, UQ	Neuromuscular junctions in MND
<b>Dr Frederick Steyn</b>	Ph D	Senior Research Officer Ass. Lecturer (SBMS) UQ	Metabolism in MND
<b>Dr Susie Mantovani</b>	Ph D	Research Fellow, UQ	Complement receptors
<b>Casey Pfluger</b>	B Applied Sc (Hons) (Biotechnology)	Research Assistant, UQ	Biomarkers in MND
<b>Dr Anjali Henders</b>	B Sc (Hons)	Human Studies Manager, QBI	Epidemiology
<b>Professor Naomi Wray</b>	B Sc, Ph D	Co-director Centre of Neurogenetics & Statistical Genomics, QBI	Genetics/genomics methodology with application to psychiatric and neurological disorders
<b>Dr Marie Mangelsdorf</b>	B Sc (Hons), Ph D	Research Fellow, QBI	Molecular mechanisms of MND and epilepsy
<b>Dr Rosemary Argall</b>	BPsy,PhD	Neuropsychologist, RBWH	Neuropsychology research in MND
<b>Susan Heggie</b>	B Nurs	Research Nurse, RBWH	Neurology / MND
<b>Kathryn Thorpe</b>	RN	Research Nurse, RBWH	Neurology / MND
<b>Dr Viktor Vegh</b>	PhD	Research Fellow	Epilepsy
<b>Dr Jeremy Ullman</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Lars Marstaller</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Min Chen</b>	MBBS PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Hana Burianova</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Qiang Yu</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Marcus Gray</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Simone Bosshard</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Dr Taracad Venkatachalam</b>	PhD DSc	Research Fellow	Epilepsy
<b>Dr Michael Vogel</b>	PhD	Post-doctoral Fellow	Epilepsy
<b>Mr Sam Fynes-Clinton</b>	MPhil	Research Assistant	Epilepsy
<b>Dr Quang Tieng</b>	PhD	Scientist	Epilepsy

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Caradonna, P.	PhD, UQ, (2014-2016)	Hybrid Imaging
Choupan, J.	PhD, UQ, (2013-2015)	Multivoxel pattern analysis in fMRI
Du, J.	PhD, UQ, (2012-2015)	Neural Current MRI
Faizo, N.	PhD, UQ, (2013-2015)	Spike triggered EEG-fMRI in epilepsy
Hennessey, D.*	Masters UQ, (2013-2016)	Clinical Psychology: Emotional inhibition in PD: An EEG study
Idu Jion, F.*	Doctorate UQ (2012-2014)	Clinical Psychology and Clinical Neuropsychology School of Psychology, Mindfulness intervention for PD
Nells, R.*	UQCCR- scholarship UQ (2013-2014)	EEGs studies in PD- Review
Pellicier, R.	PhD, UQ, (2014-2016)	Ultra-low field NMR/MRI
Pye, D.*	Doctorate, UQ (2014-2015)	Clinical Psychology and Geropsychology: Cognitive behaviour therapy for anxiety in PD
Schleiger, E.	PhD, UQ (2014-)	Quantitative EEG in stroke; enhanced prognostication of post-stroke cognitive impairment with early EEG assessments
Sheikh, N.	PhD UQ, (2011-)	Quantitative EEG in stroke
Torbey, E.*	Doctorate UQ (2012-2014)	Clinical Psychology and Clinical Neuropsychology; Assessing depression and anxiety in Parkinson's disease (PD)
Wade, R.*	Doctorate UQ, (2013-2016)	Clinical Psychology and Clinical Neuropsychology: Interventions for sleep disturbances in PD
White, E.*	UQCCR-scholarship UQ (2013-2014)	Characteristics of anxiety in PD
Wu, T.	PhD, UQ, (2013-2015)	Small animal fMRI
Xu, Z.	PhD, UQ (2014 – 2017)	Cognitive dysfunction in Motor Neurone Disease
Yang, J*	PhD UQ (2014-2018)	Mild cognitive impairment in PD: An fMRI study

## Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Berkovic, S. F.; Jackson, G. D.; Geicz, J.; Connelly, A.; Scheffer, I. E.; Reutens, D. C.*; Petrou, S.; Dibbens, L.; Calamante, F.; Thomas, P.	Neurobiology of human epilepsy: Genes, cellular mechanisms, networks and whole brain	NHMRC, Program Grant No: 628952	\$16,450,000 (2011-2015)
Brown, M. A.; Xu, H.; Bartlett, P. F.; Wallace, R. H.; Visscher, P. M.; Mowry, B. J.; Reutens, D. C.*	Sino-Australian neurogenetics initiative	ARC Linkage	\$690,000 (2011-2014)
Dissanayaka, N.*,	New methods to diagnose and treat depression and anxiety in Parkinson's disease patients	Lions, Medical Research Fellowship	\$300,00 (2013-2016)
Dissanayaka, N.*; Byrne, G.*; O'Sullivan J.D.*; Marsh R.*; Copland D.; Angwin A.; Breakspear M.; Garrido M.; Silburn P.; Mellick G.;	Developing a non-invasive composite measure to enhance accuracy of identifying anxiety in Parkinson's disease	RBWH, Project Grant	\$70,000 (2014)

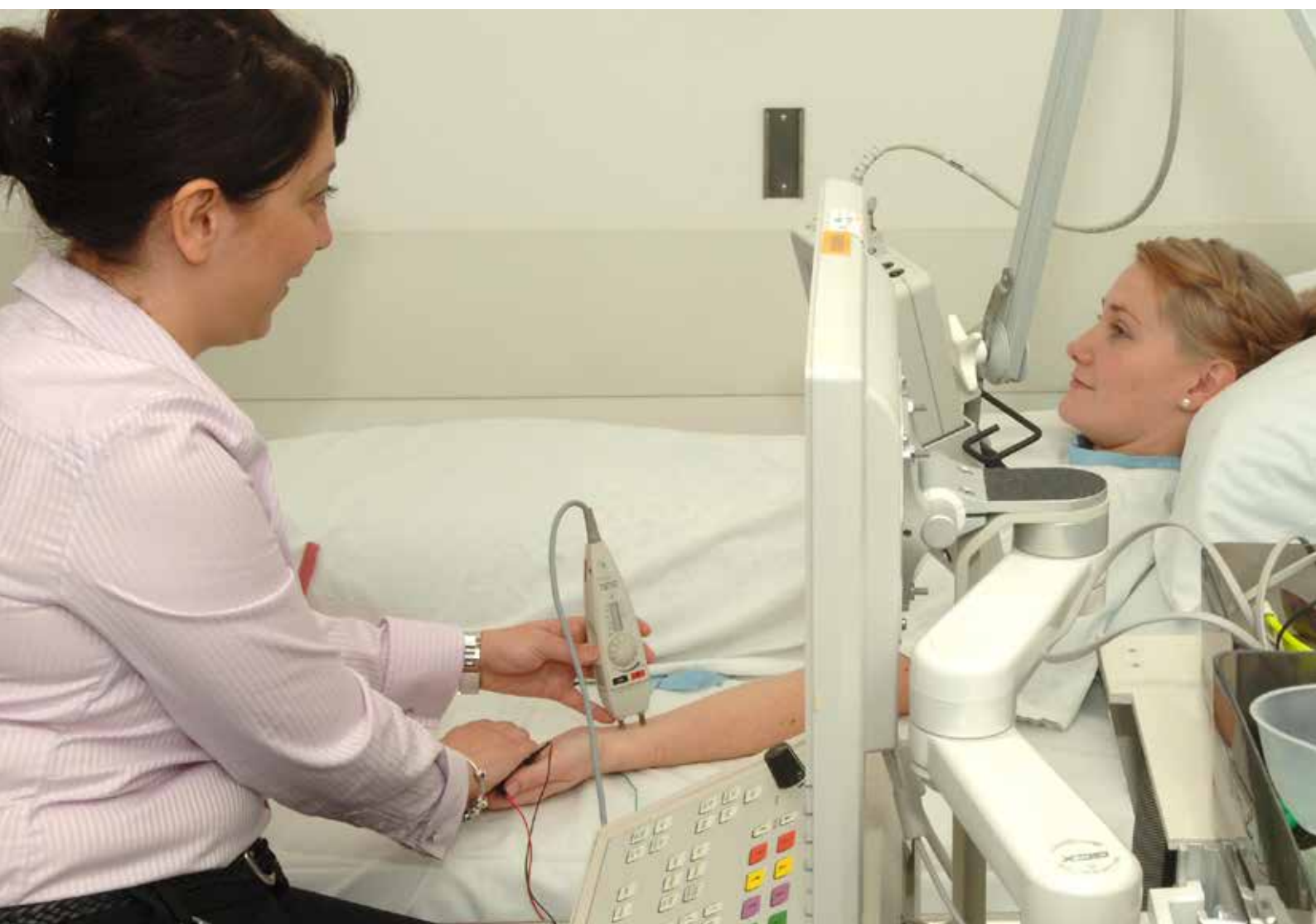
## Research grants

Investigators <small>*RBWH staff, this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Gericke, C.; Reutens, D.*, Vadlamudi, L.*; Pelekanos, J.*; Treymayne, F.*; Duncan, E.	Improving Care and outcomes for patients with a suspected first epileptic seizure	AusHSI, Stimulus Grant SG0015-000496	\$75,000 (2014-2015)
Henderson, R.*; McCombe, P.*	Blood biomarkers in ALS: Translation into clinical practice of pNFH and search for additional biomarkers using proteomics.	MND Research Institute of Australia, Project Grant	\$100,000 (2014)
Janke, A. L.; McLachlan, G. J.; Ullmann, J.; Hamilton, N.; Brereton, I. M.; Reutens, D. C.*; Galloway, G. J.; Ross, J. A.	System to synapse	ARC, Linkage Project LP130100881	\$174,000 (2013-2015)
Muller, M.; Reutens, D. C.*, Paratz, J.; Burianova, H.; Harrison, J.; Dulhunty, J.; Redman, B.	Prevention of burn injury - the neural correlates of risk-taking behaviours	RBWH Foundation	\$58,000 (2014)
Pelekanos, J.*	Epilepsy Database development	UCB, UCB Practice Activity Grant	\$30,000 (2014)
Reutens, D. C.*		NHMRC, Practitioner Fellowship Grant No: 631352	\$504,875 (2010-2014)
Reutens, D. C.*; Gray, M.	Investigations of Mechanisms Underlying Autonomic Cardiovascular Regulation in Mesial Temporal Lobe Epilepsy	RBWH Foundation	\$48,251 (2014)
Reutens, D. C.*; & 26 other CIs	The Science of Learning Research Centre	ARC, Special Research Initiative: SR120300015	\$16,000,000 (2013-2016)
Reutens, D. C.*; Speck, O.; Vegh, V.	A novel magnetic resonance imaging (MRI) technique to characterise white matter microstructure in the brain	ARC, Discovery Project. DP140103593	\$365,000 (2014-2016)
Reutens, D.*	Centre for Advanced Imaging	Queensland Department of Employment, Economic Development and Innovation	\$2,200,000 (2012-2014)
Reutens, D.*	Characterisation Virtual Laboratory	National eResearch Collaboration Tools and Resources Grant	\$409,382 (2012-2014)
Reutens, D.*	ACRF Facility for Molecular Imaging Agents in Cancer	Australian Cancer Research Foundation	\$2,500,000 (2014)
Reutens, D.*; Meikle, S.; Venkatachalam, T.; Turner, I.; Benlloch, J.; Boyd, A.; Vegh, V.; Gonzalez, A.; Bhalla, R.; Yang, Z.	Advancing hybrid imaging with magnetic resonance imaging and positron emission tomography (MRI-PET)	ARC, Linkage Project LP130100703	\$300,000 (2013-2016)
Ullmann, J. F. P.; Janke, A.; Kurniawan, N. D.; Yang, S.; Wullmann, M.; Reutens, D. C.*	A population-based atlas of the zebrafish brain for quantitative phenotypic comparisons of disease models	NIH R03, Grant from the National Institute of Neurological Disorders and Stroke	\$75,000 (2012-2014)
Vadlamudi, L.*	Genetics of epilepsy: a twin approach to complex and non-traditional inheritance patterns	Queensland Health, Research Fellowship	\$400,000 (2012-2017)
Vadlamudi, L.*	Genetics of epilepsy: a twin approach to complex and non-traditional inheritance patterns	Viertel Charitable Foundation, Establishment Grant	\$85,000 (2014-2016)
Vadlamudi, L.*	Genetics of epilepsy: a twin approach to complex and non-traditional inheritance patterns	Ramaciotti, Establishment Grant	\$75,000  (2014-2015)
Vadlamudi, L.*	Genetics of epilepsy: a twin approach to complex and non-traditional inheritance patterns	Royal Australasian College of Physicians, Servier Barry Young Fellowship in Neurology	\$50,000 (2014-2015)



## Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Vadlamudi, L.*	Genetics of epilepsy: a twin approach to complex and non-traditional inheritance patterns	RBWH, Project Grant	\$40,000 (2014)
Vadlamudi, L.*, Nyholt, D.	Searching for genetic differences between monozygous twin pairs discordant for epilepsy	QIMR, Clinician Research Collaboration Award	\$40,000 (2014)
Vegh, V.; Reutens, D.*	Fingolimod (FTY720) augmented remyelination in multiple sclerosis with MRI-based disease staging	Novartis	\$80,000 (2014)



# Department of Nuclear Medicine / Specialised PET Services QLD



**Dr William Fong**  
Director  
Nuclear Medicine

## Overview

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

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

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr William Fong</b>	MBBS, FRACP	Director, Nuclear Medicine	paediatric nuclear medicine
<b>Dr David Macfarlane</b>	MBBS, FRACP	Deputy Director, Nuclear Medicine; Director, Specialised PET Services Queensland	radionuclide therapy, positron emission tomography (PET)
<b>Dr Aravind Ravi Kumar</b>	MBBS, FRACP	Senior Staff Specialist	nuclear cardiology, nuclear oncology, training and education
<b>Dr Frank Fiumara</b>	MBBS, FRACP, MBA	Senior Staff Specialist	PET, paediatric nuclear medicine
<b>Dr Paul Thomas</b>	B.Med., FRACP	Assistant Director, Specialised PET Services Queensland	neuro-oncology imaging, kinetic analysis of PET tracers
<b>Dr Marissa Bartlett</b>	PhD Physics, MACPSEM	Principal Medical Physicist	radiation safety, nuclear medicine and PET radio isotope imaging
<b>Dr Matthew Griffiths</b>	PhD Medical Physics, MACPSEM	Director of Sciences, Principal Physicist	cyclotron production of radioisotopes, medical imaging of radioisotopes
<b>Dr Jye Smith</b>	PhD Medical Physics, MACPSEM	Senior Medical Physicist	computer processing of medical images, radio isotope production
<b>Mr Bruce Wallace</b>	MAppSc Medical Physics, MACPSEM	Senior Medical Physicist	medical and health physics
<b>Dr Stephen Taylor</b>	PhD Synthetic Organic Chemistry	PET Radiochemist	radiopharmaceutical chemistry, PET radiopharmaceutical development
<b>Dr Melissa Latter</b>	PhD Chemistry	PET Radiochemist	radiopharmaceutical chemistry, PET radiopharmaceutical development
<b>Ms Sandra Kemp</b>	General Nursing	Clinical Nurse Consultant; Study Coordinator (Nursing)	oncology, neurology, radionuclide therapy, positron emission tomography (PET)
<b>Mr Travis Pearson</b>	BAppSci(NMT), MBA	Director of Nuclear Medicine Technology	multi-modality imaging
<b>Ms Louise Campbell</b>	BAppSci(NMT), GradDipBusAdmin	Director of PET Technology	multi-modality imaging
<b>Mr Peter Garcia</b>	BAppSci(NMT), MHIthSci	Senior Nuclear Medicine Scientist	multi-modality imaging
<b>Mr Peter Garcia</b>	BAppSci(NMT), MHIthSci	Nuclear Medicine Scientist	multi-modality imaging
<b>Ms Sarah Frecker</b>	BAppSci(NMT)	Nuclear Medicine Scientist	multi-modality imaging
<b>Ms Rowena Rose</b>	BAppSci(NMT)	Nuclear Medicine Scientist	multi-modality imaging

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Mr James Turner</b>	BAppSci(NMT)	Nuclear Medicine Scientist	multi-modality imaging
<b>Mr Jacob Bolwell</b>	BAppSci(NMT)	Nuclear Medicine Scientist	multi-modality imaging
<b>Dr Steven Goodman</b>	PhD Physic	Medical Physicist	radionuclide therapy, dosimetry, medical image processing

## Supervised post-graduate research students

Name	Current studies (duration); University	Research topic
Baroom, G.	Master of Applied Science (Medical Physics), QUT (2014)	Assessment of isotopes for targeted radionuclides therapy

## Awards and achievements

Award	Event	Recipient
2014 Canon Extreme Imaging Award		Nicholas Dawson, Paul Thomas, Stephen Rose

## Research grants

Investigators <small>*RBWH staff; bold, this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Rose, S., Fay, M., <b>Thomas, P.</b> ,* Salvado, O., Crozier, S., Coulthard, A.	Understanding radiation insensitivity and temozolomide resistance in glioblastoma multiforme	Cancer Council Queensland Cancer Research Grant, Project	\$199,840 (2013-2014)
Rose, S., Russell, P., Boyd, A., Crozier, S., Whittaker, A., Salvado, O., Obermair, A., Coulthard, A., Gardiner, F., Lavin, M., Lakhani, S., Kenny, L., Fisk, N., Langton, C., Farah, C., Mitchell, M., Rice, G., <b>Macfarlane, D.</b> *	Establishment of the "Australian Cancer Research Foundation (ACRF) Molecular Oncology Translational Imaging Facility"	Australian Cancer Research Foundation (ACRF), Research Infrastructure	\$2,000,000 (2013-2014)
Fornito, A., Cropley, V., <b>Thomas, P.</b> *, Harrison, B., Pantelis, Francey	The link between dopamine and brain circuit dysfunction in early psychosis.	NHMRC (2013), Project	\$828,633 (2014-2018)
Moller, A., <b>Thomas, P.</b> *	Exploiting expression of CXCR4 to detect breast and prostate cancer by nuclear medicine imaging	QIMR-Clinician Research Collaboration Awards (2013), Clinician Research collaboration	\$35,400 (2014)
Martin, J., Rose, S., Boyd, A., Whittaker, A., <b>Thomas, P.</b> Fay, M., Fisk, N.	Targeting existing therapies with innovative technology platforms to improve survival in brain cancer.	Cancer Council Queensland, Project	\$200,000 (2014-2015)
Heathcote, P., <b>Thomas, P.</b> *, Wood, S., Greenslade, S., Lampe, G., Shephard, B., Nelson, C., Russel, P.	Evaluation of Prostate-specific Membrane Antigen Based Positron Emission Tomography and Magnetic Resonance Imaging for the Detection of Multiple Cancer Foci in Localized Prostate Cancer Patients	Gallipoli Medical Research Foundation, Project	\$50,000 (2014)

# Department of Palliative and Supportive Care Service



**Dr Carol Douglas**  
Clinical Director  
Palliative Care

## Overview

**About this service:** The Palliative and Supportive Care Service provides a consultative model of care to any patient at the RBWH with progressive life-limiting disease. Patients with progressive malignancy or chronic disease and acute onset life limiting illness are referred when there are unmet complex needs. The team is comprised of Staff Specialists Palliative Medicine, Basic Medical Registrar, Advanced Trainee Palliative Medicine and Clinical Nurses. Approximately 1000 patients received care supported by the Palliative Care Service in 2012, with x patients dying with service support in this period.

There is no funded dedicated research position within the department.

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

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Alison Kearney</b>	M.B.Ch.B., FRACP, MRCP	Specialist Palliative Medicine	
<b>Dr Carol Douglas</b>	MB,ChB. FACHPM	Specialist Palliative Medicine	

# Department of Pharmacy



**Assoc. Prof. Ian Coombes**  
Director  
Pharmacy

## Overview

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

**Highlights of 2014:** Research has focussed on evaluation of pharmacy practice (evaluation of the impact of pharmacist input to medical ward rounds on quality use of medicines and medicine use in palliative care and pharmacist prescribing in surgical pre-assessment clinics and development of advanced practitioners) pharmacokinetics and pharmacometrics (in particular anticoagulants and antimicrobial therapy) and drug use in maternity, neonatology and paediatrics. Two research conjoint positions have been established with School of Pharmacy University of Queensland (SOP UQ) (2 x 0.2 FTE funded by SOP UQ), Dr Karen Whitfield and Dr Michael Barras will take up these positions from January 2015.

As in previous years the pharmacy department has been well represented at the federal hospital pharmacy conference with 18 papers presented orally or as posters. International collaboration has been extensive in particular from Prof Jason Roberts work with ICU, Burns and critical care team.

**Benefits for clinical practice:** Our research activities help improve patient outcomes by focusing on the design of pharmacy services; implementation of evidence based practitioner development programs. The work of Prof Roberts' team results in leading edge antimicrobial therapy in critical care patients. The research undertaken in collaboration with clinicians at Princess Alexandra Hospital demonstrates significant improvement in medication safety, continuity of quality use of medicines with significant reductions in adverse events – all with projected economic benefits.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Assoc. Prof. Ian Coombes</b>	BPharm, MSc, PhD	Director, Pharmacy	medication safety, pharmacy practice
<b>Assoc Prof Michael Barras</b>	BPharm, PhD	Assistant Director (Clinical)	medication safety, pharmacokinetics, therapeutic drug monitoring
<b>Margie Butnoris</b>	BPharm	Assistant Director (Inventory)	pharmacy practice
<b>Dr Jason Roberts</b>	BAppSc, BPharm (Hons 1), PhD	Consultant Pharmacist	pharmacokinetics, drug therapy in critically ill patients, therapeutic drug monitoring
<b>Dr Lesley Ross-Lee</b>	BPharm, PhD	Senior Pharmacist, Clinical Trials	clinical trials
<b>Jessica Toleman</b>	BPharm	Assistant Director, Cancer Care Services	quality use of medicines
<b>Helen Trenerry</b>	BPharm	Director, QMAIS	medicines information, medication safety
<b>Dr Karen Whitfield</b>	BPharm, PhD	Senior Pharmacist	clinical therapeutics
<b>Kelly Mulvogue</b>	BPharm	Senior Pharmacist	clinical therapeutics, pharmacy practice
<b>Assoc Prof Neil Cottrell</b>	BPharm, PhD	Hon. Research Consultant	clinical therapeutics, pharmacy practice
<b>Dr Bruce Green</b>	BPharm, DClinPharm	Hon. Research Consultant	pharmacokinetics
<b>Dr Paul Kubler</b>	MBBS	Clinical Pharmacology, Staff Specialist	clinical therapeutics
<b>Elizabeth Doran</b>	MPharm	Senior Pharmacist	clinical therapeutics
<b>Midori Nakagaki</b>	B Pharm	Senior Pharmacist, Cancer Care	clinical therapeutics
<b>Serena Rofail</b>	BPharm	Senior Pharmacist	clinical therapeutics
<b>Brooke Myers</b>	BPharm	Senior Pharmacist	clinical therapeutics



## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Elsie Peusschers</b>	BPharm	Senior Pharmacist	clinical therapeutics, mental health
<b>Kate Murphy</b>	BPharm	Senior Pharmacist	clinical therapeutics
<b>Champika Pattullo</b>	BPharm	QUM Pharmacist	quality use of medicines
<b>Jonathon Hall</b>	BPharm	Clinical Pharmacist	clinical therapeutics
<b>Kim Ta</b>	BPharm	Senior Pharmacist	clinical therapeutics
<b>Panteha Voussoughi</b>	BPharm	Senior Pharmacist	medicines information, clinical therapeutics
<b>Joni Donagher</b>	BPharm	Clinical Pharmacist	clinical therapeutics
<b>Julian Lindsay</b>	BPharm	Clinical Pharmacist	clinical therapeutics

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Abdul-Aziz, M.	PhD, UQ, (2011-2015)	Continuous versus bolus dosing of beta-lactam antibiotics in critically ill patients.
Abu Kassim, N.	PhD, UQ, (2013-2016)	An investigation of the relationships between the levels of vitamins A, D and E in maternal serum/plasma and breast milk with those in infant serum/plasma.
Adnan, S.	PhD, UQ, (2010-2014)	Dose optimisation of antibiotics during different forms of renal replacement therapy: focus on tissue and target site concentrations.
Al-Obaid	PhD, UQ, (2012-2016)	The pharmacokinetics of various antibiotics in critically ill obese patients.
Bruck Sime, F.	PhD, Uni SA, (2011-2015)	Pharmacokinetics and therapeutic drug monitoring of beta-lactam antibiotics in high-risk patients.
Chevalier, B.	PhD, UQ, (2014-2017)	Examining communication between hospital pharmacists and patients during medication counselling, and exploring its relationship to medication adherence
Coulter, D.	PhD, UQ, (2012-2016)	Cost-effectiveness of antimicrobial stewardship in the Australian healthcare system.
Economou, C.	MPhil, UQ, (2011-2017)	The effect of renal replacement therapy modalities on antibiotic pharmacokinetics in critically ill patients.
Gomes, F.	PhD, UQ, (2012-2015)	To investigate the correlation between the levels of vitamin D in maternal serum and breast milk with infant serum levels.
Hale, A.	PhD, UQ, (2008-2014)	A randomised control trial of pharmacist prescribing in a surgical elective pre-assessment clinic
Hall, J.	MClinPharm, UQ, (2012-2014)	Mineralocorticoid receptor antagonists in heart failure and kidney disease: incidence of hyperkalaemia and eGFR versus Cockcroft Gault for estimation of GFR.
Hanrahan, T.	MPhil, UQ, (2011-2015)	Vancomycin nephrotoxicity in critically ill patients: fact or fiction?
Jamal, JA.	PhD, UQ, (2011-2015)	Continuous versus bolus dosing of beta-lactam antibiotics in critically ill patients receiving renal replacement therapy.
Lindsay, J.	MClinPharm, Monash, (2013-2014)	The development and evaluation of a Palliative Care De-Prescribing Guideline
Mulvogue, K.	MPhil, UQ, (2012-2016)	Prescribing on a Geriatric Evaluation Medical Service using Start-Stop tool
Murphy, K.	MPhil, Griffith Uni, (2014-2016)	Clozapine and concomitant medications: Assessing the completeness and accuracy of medication records for people prescribed clozapine under shared care arrangements
Myers, B.	PhD, UQ, (2014-2018)	A study to investigate and evaluate the impact of a clinical pharmacist on the safety and quality of the prescribing on a post take ward round.

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Nakagaki, M.	MPharm, Newcastle, UK, (2013-2015)	A randomised trial of olanzapine and palonosetron versus infused ondansetron for the treatment of nausea and vomiting in patients undergoing haematopoietic stem cell transplantation (HSCT)
Nivomasnaitham, S.	PhD, UQ, (2011-2014)	Impact of drug warning system on prescriptions
Parker, S.	PhD, UQ, (2011-2015)	Translating innovative pharmacokinetic sampling techniques into improved antibiotic dosing regimens in critically ill patients.
See, JY.	PhD, UQ, (2014-2018)	Use of Pharmacometrics in insulin dosing.
Shekar, K.	PhD, UQ, (2011-2015)	The pharmacokinetics of various antibiotics in critically ill patients receiving extracorporeal membrane oxygenation.
Sinnollareddy, M.	PhD, Uni SA, (2010-2015)	Pharmacokinetics of fluconazole and other antifungals in critically ill patients.
Stacey, S.	PhD, UQ, (2011-2014)	Advanced Practice in Paediatric Pharmacy: What is it, how do you get there, and what does it mean for children?
Taufek, N.	PhD, UQ, (2013-2016)	To investigate trace element levels in full term and pre-term infants – and to identify risk factors for deficiency.
Tsai, D.	PhD, UQ, (2013-2016)	The pharmacokinetics of various antibiotics in critically ill indigenous Australians.
Varghese, J.	PhD, UQ, (2008-2014)	Plasma and interstitial fluid pharmacokinetics of beta-lactam antibiotics in critically ill patients receiving renal replacement therapy.
Wang, L.	MPhil, UQ, (2013-2017)	Antibiotic tissue pharmacokinetics in burn injury patients.
Wong, G.	MPhil, UQ, (2011-2016)	Therapeutic drug monitoring of beta-lactam antibiotics in critically ill patients.

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Barras, M.	Delivery of an OPAT service	Metro North, Seed grant	\$94,000 (2014)
Roberts, JA., Cotta, MO., Boots, RJ., Lipman, J.	Optimising benzylpenicillin dosing for critically ill patients with severe pneumonia.	RBWH research foundation, Project Grant	\$40,000 (2014-2015)
Coombes, I., Moudgil, V., Murphy, K., Wheeler, A., Patterson, S.	Clozapine use in our community: who really knows what is going on?	RBWH research foundation, , Project Grant	\$40,000 (2014-2015)
Roberts, MS., Anissimov, Y., Grice, J., Lehmann, P., Maibach, H., Weiss, M., Wittum, G., Sinner, F., Stinchcomb, A., Walters, K., Roberts, JA.	Physiologically Based Biopharmaceutics and Pharmacokinetics of Drug Products for Dermal Absorption in Humans.	US FDA, Project Grant	\$676,552  (2014-2017)
Webb, S., Paterson, DL., Lipman, J., Roberts, JA.	Incidence, risk factors, consequences and treatment of ventilated patients with nosocomial infection with pandrug resistant organisms in hospitals in Asia.	Uni WA & Uni Qld, Collaboration award	\$20,000 (2014)
McGloughlin, S., Webb, S., Lipman, J., Paterson, DL., Roberts, JA., Phua, J.	Incidence, risk factors, consequences and treatment of ventilated patients with nosocomial infection with pandrug resistant organisms in hospitals in Asia.	Intensive care foundation, Project Grant	\$34,000 (2014)
Lipman, J., Roberts, JA., Peake, SL., Joynt, GM., Udy, AA., Nicholls, MB.	Pharmacokinetic Australasian Collaborative.	Intensive care foundation, Project Grant	\$39,156 (2014)

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Shekar, K., Roberts, JA., Smith, M., Fraser, J.	ASAP ECMO: Antibiotic sedative and analgesic pharmacokinetics during extracorporeal membrane oxygenation: A multicenter study to optimize drug therapy during ECMO.	TPCH, Experienced researcher	\$99,620.94 (2014)
Joynt, GM., Lee, A., Gomersall, CD., Choi, G., Roberts, JA., Lipman, J.	Antibiotic pharmacokinetics in critically ill patients receiving renal replacement therapy – a prospective multicenter cohort study.	Chinese university of Hong Kong, Project Grant	\$70,002 (2014)
Lipman, J., Roberts, JA., Paratz, JD., Paterson, DL.	Strengthening the School of Medicine's position as a central coordinator of global pharmacokinetic studies in critically ill patients.	UQ & NHMRC, Equipment grant	\$110,790 (2014)

# Department of Renal Medicine



**Dr Helen Healy**  
Director  
Renal Medicine

## Overview

**About this service:** The Kidney Health Service (KHS) is a dynamic and innovative group serving the kidney care needs of the population of Metro North HHS and those transferred into its facilities. We face a population need for our service greater than the underlying growth in health demand, experienced most acutely in our dialysis programs. Our Service works from a multidisciplinary paradigm exploring alternative models of care with a strong emphasis on evaluation and measurement of performance.

**Highlights of 2014:** Our research has been recognized and supported at International, Federal, State and Local levels. Members of the Kidney Health Service are Chief Investigators in two NHMRC Centres of Research Excellence, in chronic kidney disease and end of life care, with networks across Australia. The KHS hosts the Kidney Professorial Nursing Unit in partnership with QUT, an important driving force in building research capability and excellence with nursing and allied health papers awarded at the National Conference. Internationally, we were invited to present the work of the Conjoint Kidney Research Laboratory at the Dendritic Cell Meeting in France. The important partnership with CKD.Qld was invited to write a policy position on the natural history of chronic kidney disease in collaboration with cohort groups around the world and this was published electronically by the peak international journal *Kidney International* at the end of the year.

**Benefits for clinical practice:** Research with Genetics Health Queensland has resulted in the establishment of Australia's first genetic renal diseases clinics, conjointly between the two services and serving the people of Queensland and beyond. And research with partners in primary care is pioneering delivery of expert kidney care in the community.

The vision for future research is building a sustainable infrastructure with CKD.Qld to report performance to the clinical teams and answer important questions about our patients' experience of health.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Helen Healy</b>	MBBS, FRACP, PhD	Director, Kidney Health Service; Eminent Staff Specialist	mechanisms of and interventions in chronic kidney disease
<b>Prof Ann Bonner</b>	RN, BAppSc (Nurs), MA, PhD	Professor of Nursing, QUT	self management & nursing practice in chronic kidney disease
<b>Ms Anne Cameron</b>	RN, Industry Fellow, UQ	Manager CKD Queensland	Chronic kidney disease
<b>Ms Sonya Coleman</b>	RN, NP, MNsc (Nurs Prac)	Nurse Practitioner	chronic kidney disease
<b>Ms Danielle Heffernan</b>	RN, GradDipHealthMg, MSF	Assistant Nursing Director, Kidney Health Service	renal supportive care
<b>Dr George T John</b>	MBBS, MD, DM, FRCP, FRACP	Senior Staff Specialist	immunosuppression, kidney transplantation, infectious disease
<b>Dr Adrian Kark</b>	MBChB, FRACP	Senior Staff Specialist	chronic kidney disease, the role of salt
<b>Dr Andrew Kassianos</b>	PhD, MTIM (Biotech)	Post-doctoral Fellow, Conjoint Kidney Research Laboratory	dendritic cell innate immunity, T/B lymphocytes
<b>Dr Roshini Malasingam</b>	MBChB, FRACP	Renal Fellow	CKD/AKI in the ICU setting, renal replacement therapy
<b>Dr Andrew Mallett</b>	MBBS, MMed, AFRACMA, FRACP	Staff Specialist	Inherited kidney disease, nephrogenetics, renal tubular disorders, nephronophthisis/ MCKD, clinic models
<b>Dr Dwarakanathan Ranganathan</b>	MD, DM, FRCP, FRACP	Eminent Staff Specialist	home dialysis therapies, lupus nephritis/ vasculitis, glomerulonephritis
<b>Dr Sharad Ratanjee</b>	MBChB, FRACP	Senior Staff Specialist	haemodialysis, erythropoietin stimulating agents
<b>Assoc Prof Ray Wilkinson</b>	PhD	Senior Post-doctoral Fellow, Conjoint Kidney Research Laboratory	dendritic cells, innate immunity, T/B lymphocytes
<b>Ms Xiangju Wang</b>	MBBS, MPhil	Research Scientist, Conjoint Kidney Research Laboratory	cell senescence, laser capture microscopy, exosomes
<b>Ms Lesley Williams</b>	RN	Clinical Nurse	home dialysis therapies

## Research staff

Name	Qualifications	Position	Interests/specialities
Ms Nicola Williams	RN	Clinical Nurse	home therapies

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Ms Sadia Afrin	MSc, QUT, (2013- 2015)	3D culture systems
Hayfa Almutary	PhD, QUT	Exploring symptom clusters in people with chronic kidney disease
Hajar Alasmari	PhD, QUT	Examining intensive care nurses' clinical decision-making associated with acute kidney injury and continuous renal replacement therapy
Ms Leanne Brown	PhD, QUT	Evaluating patient-centred decision making for end of life care in end stage kidney disease
Ha Thi Thuy Dinh	PhD, QUT	Exploring teach-back as a method for improving Heart Failure knowledge and self-management
Ms Bronwyn Hayes	DHlthSc, QUT	Job satisfaction, stress and burnout in haemodialysis nurses (under examination)
Ms Kathryn Havas	PhD, QUT	Comparison of a brief and an in-depth intervention to support self-management in people with chronic kidney disease
Wei He	PhD, QUT	Exploring the factors associated with concordance with lifestyle modifications in Chinese people with hypertension
Dr Andrew Mallett	PhD, UQ, (2013- 2016)	Developing a Renal Genetics Service and studying inherited kidney disease
Ms Molly Milazi	DHlthSc, QUT	Nurse-led teach back intervention to improve people with End Stage Kidney Disease self-care management adherence with phosphate binders
Nguyet Thi Nguyen	MAppSc, QUT	Self-management of people with early stages of chronic kidney disease in Hanoi, Vietnam
Ms Haunnah Rheault	DHlthSc, QUT	Health literacy and chronic disease self-management in Indigenous Australians.
Mr Sandeep Sampangi	PhD, UQ, (2013- 2015)	Kidney cell – immune cell cross talk
Dr Sri Krishna Venthurupalli	PhD, UQ, (2010- 2017)	Developing a statewide CKD surveillance & monitoring dataset
Ms Colette Wembenyui	MAppSc, QUT	Self-management in people with chronic kidney disease

## Awards and achievements

Award	Event	Recipient
Centre of Research Excellence in Chronic Kidney Disease	NHMRC	CIB Dr H Healy, CII Professor Ann Bonner
Top oral presentation	RSA, 42nd Annual Conference	Ms Linh Pham
Top oral presentation	RSA, 42nd Annual Conference	Ms Janine Hale
Postgraduate Scholarship 2013-2014	RBWH Foundation	Dr Andrew Mallett
Best Clinical Science Oral Presentation	2014 RBWH Symposium	Dr Andrew Mallett
UQ Graduate School International Travel Award		Dr Andrew Mallett
Invited keynote address speaker	5th International Nursing Conference	Professor Ann Bonner
Invited speaker	13th International Symposium on Dendritic Cells, Loire Valley France	Assoc Professor Ray Wilkinson



## Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Bonner, A.*, Clark, R., Healy, H.*, Hamernik, E.*, Bennett, P., Nicholls, P.*	Adaptation of the fluid watcher's program for people with chronic kidney disease receiving haemodialysis	Royal Brisbane and Women's Hospital research project grant	\$25,000 (2013-2014)
Bonner, A.*, Douglas, C.	Integrated Chronic Disease Nurse Practitioner Model of Care	Chief Nursing and Midwifery Office, project grant	\$86,000 (2014-2015)
Coleman, S.*, Bonner, A.*, Taylor, B.*	Patient satisfaction with nurse-led CKD clinics: A multisite study	Renal Society of Australasia QLD Branch Research Grant, project grant	\$3,000 (2014)
Healy, H.*, Hoy, W., Bonner, A.*, Connelly, L., Tan, K-S., Dunne, A., Coleman, S.*, Heffernan, D.*, Wang, Z.	The Impact on Hospital Utilisation and Costs of Proactive Planning for Conservative Treatment without Dialysis in Selected Patients with Advanced Kidney Disease	Australian Centre for Health Service Innovation, project grant	\$73,000 (2014-2015)
Healy, H.*, Kassianos, A.*, Wilkinson, R.	Proximal tubule epithelial cell-B cell interactions in human chronic kidney disease	Royal Brisbane and Women's Hospital research project grant	\$40,000 (2014)
Healy, H.*, Johnson, T., Williamson, S., Hoy, W.	Keeping Kidneys in the community	Health Innovation Fund, QH, project grant	\$991,430 (2013-2016)
Kassianos, A.*	Dendritic cells in human chronic kidney disease	RBWH Foundation Patricia Dukes Post-doctoral Fellowship	\$240,000 (2012-2014)
Kassianos, A.*, Healy, H.*, Wilkinson, R.	The recruitment of inflammatory immune cells in human chronic kidney disease.	Royal Brisbane and Women's Hospital research project grant	\$40,000 (2014)
Little, M., Mallett, A.*	Generating and studying patient-derived iPSC in renal disease	Kidney Health Australia Special Project Grant	\$10,000 (2014)
Mallett, A.*	PhD: Genetic Diagnostics in Genetic Renal Disease - Methods, Applications and Therapeutics	UQ Graduate School International Travel Award	\$5,000 (2014)
Mallett, A.*, Healy, H.*, Hoy, W., Patel, C.*, McGaughran, J.*, Hyland, V., Little, M., Simons, C.	Next Generation Sequencing and Induced Pluripotent Stem Cell Applications in Genetic and Inheritable Forms of Renal Disease	Pathology QLD Study Education and Research Trust Fund	\$50,000 (2014)
Mallett, A.*, Healy, H.*, Hoy, W., Patel, C.*, McGaughran, J.*, Hyland, V., Little, M., Simons, C.	Next Generation Sequencing and Induced Pluripotent Stem Cell Applications in Genetic and Inheritable Forms of Renal Disease	Royal Brisbane and Women's Hospital research project grant	\$50,000 (2014)
Mallett, A.*, Little, M., Alexander, S.	Next Generation Sequencing and Induced Pluripotent Stem Cell Applications in Genetic and Inheritable Forms of Renal Disease	Alport Foundation Project Grant	\$20,000 (2014)
Williams, N.*, Reid, C.*, Williams, L.*, Sullivan, P.*, Bonner, A.*, Hamernik, E.*	Motivational interviewing for people with end stage kidney disease undergoing dialysis at home to improve treatment adherence: A randomised controlled trial	Royal Brisbane and Women's Hospital Foundation nursing and allied health research grant	\$29,000 (2013-2014)
Woy H, Healy H*, Connolly L, Mitchell G, Panaretto K, Endre Z, Coombes J, Gobe G, Bonner A*, Fassett R.	Chronic Kidney Disease Centre of Research Excellence	NHMRC Centre for Research Excellence	\$2,496,981 (2014-2019)
Yates P, Mitchell G, Currow D, Eager K, Edward H, Gardner G, Willmott L, Bonner A*, Clark R, Tieman J	End of Life	NHMRC Centre for Research Excellence	\$2,495,543 (2013-2018)

# Department of Rheumatology



**Dr Paul Kubler**  
Director  
Rheumatology

## Overview

**About this service:** The rheumatology department provides a comprehensive range of diagnostic and therapeutic services to patients with acute and chronic musculoskeletal disease. Areas of research interest include management of inflammatory arthritis, carpal tunnel syndrome, crystal arthritis and connective tissue disease. 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 which coordinates care for patients with systemic vasculitis and SLE related nephritis.

**Highlights of 2014:** Our 3 fields of research have focussed on understanding the risk factors for the development of septic arthritis, assessing and managing patients with carpal tunnel syndrome with a view to developing potential non-operative means of managing the condition and optimising care in patients with lupus nephritis.

**Benefits for clinical practice:** Our research activities help improve patient outcomes by focusing on the coordinated care of patients with complex multisystem conditions

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Paul Kubler</b>	MBBS, FRACP	Director	Inflammatory arthritis, carpal tunnel syndrome and drug use in rheumatic diseases
<b>Dr Sumant Kevat</b>	MBBS, FRACP	Visiting Specialist	Inflammatory arthritis
<b>Dr Philip Robinson</b>	MBBS, FRACP	Part Time Staff Specialist	Gout and Spondyloarthritis
<b>Dr Ashleigh Hennessey</b>	MBBS	Advanced Trainee	Infective and crystal arthritis

# Department of Thoracic Medicine



**Assoc. Prof.  
Stephen Morrison**  
Director  
Thoracic Medicine

## Overview

**About this service:** The Department of Thoracic Medicine provides diagnostic and therapeutic services for patients with acute and chronic respiratory problems, including pulmonary infection, interstitial lung diseases, occupational lung diseases, sleep disorders, pulmonary malignancy, asthma and chronic obstructive pulmonary disease (COPD).

Facilities and services:

- An acute respiratory failure service to provide non-invasive ventilation to certain categories of COPD patient.
- Sophisticated pulmonary function studies, including body plethysmography, gas transfer measurement, exercise testing, measurement of chemical drives to ventilation and bronchial reactivity.
- Comprehensive sleep monitoring services, including multiple sleep latency testing.
- A sophisticated fiberoptic bronchoscopic service is available, including early diagnosis of lung cancer by autofluorescence and endobronchial ultrasound techniques.
- The department offers procedures such as pleural biopsy, intercostal drain placement and pleurodesis.
- There is close liaison with the Division of Cancer Care Services and the Department of Thoracic Surgery for the management of pulmonary malignancy.
- Educational and support services are available for patients with respiratory sleep disorders, asthma, COPD and specialised equipment such as oxygen delivery systems and non-invasive ventilation.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>A/Prof Stephen Morrison</b>	PhD FRCP FRACP	Director	Asthma, COPD, Sleep Disorders
<b>Dr David Fielding</b>	MD FRACP	Deputy Director	Lung Cancer, Endobronchial U/S
<b>Dr Farzad Bashirzadeh</b>	FRACP	Staff Thoracic Physician	Interventional Pulmonology
<b>Dr Justin Hundloe</b>	MD FRACP	Staff Thoracic Physician	Interventional Pulmonology
<b>Dr Chris Zappala</b>	PhD FRACP	Staff Thoracic Physician Interstitial	Lung Disease
<b>Dr Matthew Salamonsen</b>	M Appl Sci	Research Fellow	Pleural Procedures
<b>Mr Michael Brown</b>	FRACP	Director Respiratory Science	Lung Function, Polysomnography