

# Women's and Newborn Services



**Tami Photinos**  
A/Executive Director  
Women's and Newborn  
Services

## Overview

Women's and Newborn Services offer a wide and diverse range of healthcare services to women and their babies in Queensland. Our dedicated team delivers a high standard of quality care to assist achieving the best and most positive outcome for you and your family. We remain a leading force in health promotion whilst continuing to provide specialist care in Maternity, Neonatology, Gynaecology and Cancer Services.

2014 was another challenging year as the need for services across all departments grows increasingly complex and demanding. Despite this, we continue to maintain an active interest in research activities as well as the provision of multiple education programs for undergraduate and postgraduate health service professionals. To that end we maintain a strong connection with local universities including The University of Queensland, Queensland University of Technology, James Cook University and Central Queensland University and the Royal Australian and New Zealand College of Obstetrics and Gynaecology (RANZCOG).



**Trish Smith**  
Nursing Director  
Women's and Newborn  
Services

## Key departments

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

## Executive and directing staff

**Tami Photinos**  
Acting Executive Director, Women's and Newborn Services

**Trish Smith**  
Nursing Director, Women's and Newborn Services

**Prof. Soo-Keat Khoo**  
Director, Betty Byrne Henderson Women's Health Research Centre

**Dr Owen Ung**  
Director, Centre for Breast Health

**Dr David Cartwright**  
Director, Neonatology

**Dr David Baartz**  
Clinical Director, Gynaecology

**Assoc. Prof. Rebecca Kimble**  
Clinical Director, Obstetric Services

**Prof. Paul Colditz**  
Director, Perinatal Research Centre

**Assoc. Prof. James Nicklin**  
Clinical Director, Gynaecological Oncology



# Grantley Stable Neonatal Unit



**Dr David Cartwright**  
Director  
Neonatology

## Overview

**About this service:** The Grantley Stable Neonatal Unit (GSNU) at the Royal Brisbane and Women’s Hospital is a 71 bed neonatal unit, one of four tertiary referral neonatal centres in Queensland, specialising in the management of premature and sick babies. Admissions come mainly from the area from Brisbane to Rockhampton, but some are also received from further south into northern New South Wales. A Retrieval Service run by the unit assists in bringing outborn babies to Brisbane, transporting approximately 180-200 babies per year. In 2014, the unit was staffed by 7 full-time neonatologists, 1 visiting medical officer neonatologist, 1 Nursing Director, 2 Nurse Unit Managers, 1 Nurse Manager, 2 Clinical Nurse consultants, 1.5 full-time Nurse Educators, approximately 175 nurses (100 full-time equivalents), of whom 100 hold neonatal certificates or Transition, 15 registrars, 2 senior house officers and 2 interns.

**Highlights of 2014:** A significant change for the GSNU in 2014 was the closure of the Royal Children’s Hospital on the Herston Campus with relocation of children’s services to the Lady Cilento Children’s Hospital (LCCH) in South Brisbane on 29th November. This has meant that all subspecialty consultations to GSNU must come from LCCH, and neonatal surgical patients are primarily cared for in the Mater Mothers’ Hospital (MMH), with the surgery being performed at the LCCH. In order for MMH to accommodate these extra surgical patients, there has been a redistribution of medical and premature babies to RBWH GSNU.

**Benefits for clinical practice:** The Unit plays an active role in the national data collection of the Australian and New Zealand Neonatal Network, and participates in a number of multi-centre randomised controlled trials, as well as utilising our extensive database of short-term and follow-up outcomes to research and report aspects of neonatal care. The HIPSTER trial underway in 2014 will give strength to the knowledge of which respiratory support, CPAP or HHHFNC is better for babies with acute respiratory distress. Co-operation with the Perinatal Research Centre in the clinical aspects of their research enhances their activities.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr David Cartwright</b>	MBBS, BSc, FRACP	Director, Neonatology; Associate Professor, UQ	general neonatology, neonatal follow up, perinatal data systems. Infection
<b>Dr Mark Davies</b>	MB BS DCH PhD FRACP	Staff Specialist in Neonatology	Neonatology
<b>Dr Tim Donovan</b>	MB,BS FRACP, MPH	Senior Medical Officer Neonatology, A/Prof University of Qld	Growth, body composition and neurocognitive outcome in preterm infants, Retcam Study, Predictors of Gastroschisis outcome
<b>Dr Pieter Koorts</b>	MBChB, FRACP	Deputy Director, Neonatology; Senior Staff Specialist; Senior Lecturer, UQ	milk banking, bedside echocardiography, nutrition
<b>Dr Garry Inglis</b>	MBBS, FRACP	Staff Specialist; Senior Lecturer, UQ	infection
<b>Dr Donna Bostock</b>	MBBS (Hons), BSc, FRACP	Staff Specialist; Senior Lecturer, UQ	neonatal simulation, general neonatology
<b>Dr Adam Hoellering</b>	MBBCh (Hons), BSc, FRACP	Staff Specialist; Senior Lecturer, UQ	general neonatology, haemodynamic support in the newborn, persistent patent ductus arteriosus, clinical applications of ultrasound in neonates
<b>Dr Margo Pritchard</b>	RN, RM, NNC, BA, PhD	Principal Clinical Trialist, Senior Lecturer, Medicine, Health and Life Sciences. Queen's University Belfast. UK	RCTs, high risk screening and surveillance

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## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Luke Jardine	PhD UQ (2014-2020)	Development of early predictors of long term neurodevelopmental outcome for preterm infants.
Donna Franklin	PhD UQ (2013-2017)	High Flow Nasal Cannula Therapy in Infants with Bronchiolitis
Nada Al-Theyab	PhD UQ (2012 -2016)	PremiGRACE Study : Preterm infant growth and body composition
Alex Kanon	BSc (Hons) UQ (2014-2015)	Nutritional Determinants of Brain Growth in Preterm Infants

## Research grants

Investigators <small>*RBWH staff; bold, this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Donovan, T., Colditz, P., Rose, S., Lingwood, B.	Optimising brain development through rationally based nutritional interventions in preterm infants	RBWH Private Practice Trust Fund	\$59,933 (2013-2014)

# Department of Gynaecology



**Dr David Baartz**  
Clinical Director  
Gynaecology

## Overview

**About this service:** The Department of Gynaecology at RBWH continues to provide secondary, tertiary, and quaternary care in all disciplines of gynaecology including general gynaecology colposcopy, advanced laparoscopic surgery and endometriosis services, as well as acute and emergency care, prolapse and incontinence surgery.

A paediatric and adolescent gynaecology Statewide service is provided by Associate Professor Rebecca Kimble to patients from Queensland and northern New South Wales. This multi-disciplinary service is supported by specialists from the Royal Children's Hospital and Dr David Baartz, Clinical Director, Department of Gynaecology. Dr David Baartz is the Executive Officer of the Australasian International Society of the Study of Trophoblastic Diseases.

Reproductive endocrinology and infertility is a division of the Department of Gynaecology. A fertility service is provided and includes investigations, medication and counselling, but does not include IVF / Assisted Reproductive Technology.

**Highlights of 2014:** We are proud to share that Dr Vinay Rane, one of the obstetrics and gynaecology registrars in 2014 was awarded the prestigious Fulbright Scholarship where he will be undertaking clinical research in obstetric care for underprivileged communities in the USA.

**Benefits for clinical practice:** As an example of how our Department's clinical research activities support excellence in provision of patient care, the research project by Drs Keisuke Tanaka and Dr Baartz on Medical Treatment of Interstitial ectopic pregnancy has influenced practice in the management of this potential morbid condition on a state and national level.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Kar Hin Ooi</b>	MBBS, MRCOG, FRANZCOG		
<b>Assoc Professor Mark Erian</b>	LRCP, LRCS, LRCPS, DObstRCPI, MD (UQ), FRANZCOG, FRCOG, FACOG		
<b>Dr David Baartz</b>	MBBS, FRANZCOG		
<b>Dr Akram Khalil</b>	MBBS, DRACOG, FRANZCOG		
<b>Dr Bart Schmidt</b>	MBBS, FRANZCOG		
<b>Dr Wai Lum Yip</b>	MBBS, FRANZCOG		
<b>Associate Professor Anusch Yazdani</b>	MBS (Hons), FRANZCOG, CREI		
<b>Associate Professor Christopher Maher</b>	MBBS, FRANCOG		
<b>Dr Owen Ung</b>	FRACS		
<b>Dr Ben Kroon</b>	CREI		

## Supervised post-graduate research students

Name	Current studies	Research topic
Fulbright Scholarship		Vinay Rane
Young Gynaecologist of the Year	RANZCOG	Vinay Rane

# Department of Maternity Services



**Assoc. Prof. Rebecca Kimble**  
Clinical Director,  
Obstetric Services

## Overview

**About this service:** The Department of Maternity Services has continued to increase its activity and remains the largest provider of tertiary and quaternary obstetric care in Queensland with a referral base for tertiary transfers of care primarily from around Central Queensland. Northern New South Wales patients continue to be serviced through RBWH Maternity Services. The multidisciplinary services include:

- Birthing Services and Birthing Centre
- Antenatal Day Assessment Service
- Obstetric Review Centre
- Obstetric Medicine Services and Obstetric Telehealth Services
- Maternal Fetal Medicine and Centre for Advanced Prenatal Care
- Maternity Outpatients Service
- Endocrine Service
- Young Parents Program
- General Practitioner shared care program
- Team midwifery models in conjunction with obstetric care
- Extended Midwifery Services
- Inpatient Unit and Lactation Service.

Maternity Services collaborate closely with the Perinatal Research Centre and UQ CCR for ongoing multi-centre research projects. The Maternal Fetal Medicine unit provides a comprehensive and competitive environment for prospective and retrospective research and audits.

The Obstetric Medicine Unit is active in clinical and basic science research across all medical problems which occur throughout pregnancy. A number of PhD candidates are currently undertaking research in areas related to maternal medical conditions in pregnancy and the effects on pregnancy outcomes. The unit has been successful in numerous research grant / funds. Statewide Paediatric and Adolescent Gynaecology Service established by Associate Professor Rebecca Kimble; this is the only service in Queensland, and supports patients from northern New South Wales. This service provides super-specialty care to girls between the ages of eight years to mid-twenties with complex congenital surgical conditions, disorders of sexual development, disabled patients, menstrual abnormalities and many other gynaecological conditions. It has been awarded site-specific grants by Queensland Health commencing in 2011, recognising it as a super-specialty. The Commonwealth Department of Health and Aging (DoHA) has granted it a RANZCOG accredited funded Fellow's position commencing 2011 for six years, with a high likelihood for continuation indefinitely. The service collaborated closely with the new Lady Cilento Hospital.

**Highlights of 2014:** Multiple publications from the Statewide Paediatric and Adolescent Gynaecology Service under A/Prof Kimble's direction. Several new Statewide clinical guidelines published, including Trauma and the pregnant patient, Preterm Labour Management and care at the threshold of viability. Quarry award winner Non-Clinical Project: Induction of Labour-Benchmarking, R Kimble and Queensland Clinical Guidelines Team.

**Benefits for clinical practice:** Evidence based clinical guidelines provide decision support tools at the point of care for clinicians, with accompanying patient information to assist shared decision making as part our compliance with the national safety standards. Multiple research outputs in Paediatric and Adolescent Gynaecology contribute to the global literature on rare conditions to assist clinicians worldwide with management decisions.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Dr Yogesh Chadha</b>	FRCOG, MSc, FRANZCOG	Staff Specialist, Obstetrics and Gynaecology and Senior Lecturer, UQ	perinatology, incontinence, medical audit, health services research
<b>Associate Professor Rebecca Kimble</b>	MBBS, FRANZCOG, GAICD, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction (Harvard)	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service, and Associate Professor, The University of Queensland (UQ) School of Medicine. Founder and Director, Queensland Clinical Guidelines Program since 2008, Chair, Statewide Maternity and Neonatal Clinical Network.	Clinical governance, maternity emergencies in a simulated environment, paediatric and adolescent gynaecology, clinical guidelines.
<b>Assoc Professor Mark Erian</b>	LRCPLRCS, LRCPS, DObstRCPI, MD (UQ), FRANZCOG, FRCOG, FACOG	Grad Cert Education (UQ), Staff Specialist, Obstetrics and Gynaecology	gynaecological operative endoscopy, surgical gynaecology, high-risk obstetrics, medico-legal consultation
<b>Dr Lee Minuzzo</b>	MBSS, FRANZCOG	Grad Cert Education, Staff Specialist, Obstetrics and Gynaecology	general obstetrics and gynaecology
<b>Dr Matt Smith</b>	MBSS, FRANZCOG, BSC	Staff Specialist, Obstetrics and Gynaecology	
<b>Dr.Renuka Sekar</b>	MBBS, DGO, FRANZCOG, CMFM	Acting Clinical Director MFM	Fetal growth restriction, preterm labour, Growth charts
<b>Prof. N. Fisk</b>	PhD, MBA, MBBS, FRANZCOG, CMFM, DDU, GAICD	Staff Specialist	Multiple pregnancies, monochromic placentation, fetal stem cells
<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 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>Dr Greg Duncombe</b>	Staff MBBS, FRANZCOG, CMFM	Specialist, Maternal Fetal Medicine	maternal fetal medicine
<b>Dr Greg Duncombe</b>	Staff MBBS, FRANZCOG, CMFM	Specialist, Maternal Fetal Medicine	maternal fetal medicine

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Dr Tegan Draheim- K.Rimble	Year 1 RANZCOG (2014)	Seatbelt safety in pregnancy: the beliefs and knowledge of pregnant women: Platform poster presentation 2015 RACOG World Congress
Dr Danielle Robson- R Kimble	DRANZCOG Trainee (2014)	Hereditary angioedema: a case series: Poster presentation RACOG World Congress 2015
Dr Genevieve Molloy- R.Kimble	PhD (2014)	Cervical aplasia and limitations of MRI in diagnosis: Poster presentation NASPAG Conference 2015
Dr Monika Jha- R.Kimble	Year 1 RANZCOG (2014)	Quantitative Fetal fibronectin use in management of symptomatic women with Threatened Preterm labour at the RBWH: a clinical audit
Dr Ying He- R.Kimble	DRANZCOG (2014)	Bladder Extrophy and pregnancy: paper submitted 2015 to journal of Paediatric Urology

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Susan de Jersey	PhD QUT (2011-2014)	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy
Kerina Denny	PhD UQ (2010-2013)	Role of C5a in Fetal and Maternal Health
Helen Barrett	PhD UQ (2011-2014)	Maternal Lipids in Pregnancy
Lisa Harris	PhD UQ (2012-2014)	Pre-Eclampsia: Early identification of at-risk patients and clinical implications
Naomi Achong	PhD UQ (2012-2014)	Insulin requirements in the Peripartum period in type 1 diabetes mellitus
Luisa Gomez Arango	PhD UQ (2014-2017)	The gut microbiome in overweight and obese pregnancy
Kristine Matusiak	MPhil UQ (2012-2016)	Periconceptional weight loss and the HPA axis in neonates
Non-Clinical Project: Induction of Labour- Benchmarking	Quarrie Awards	R.Kimble, J.Lee, B.Knack, L.Gray- QCG

## Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Kimble, RM.	Queensland Clinical Guidelines Program	Queensland Health	\$3,500,000 (2014-2019)
Kimble, RM.	Commonwealth Government Specialist Training Program (STP) Paediatric and Adolescent Gynaecology	Australian Government Training	\$110,000 (2011-current)
Kimble, RM.	New specialist to sustain the State-wide Paediatric and Adolescent Gynaecology Service	Queensland Health, People support	\$380,000 (2012-recurrent)
Kimble, R.	Statewide PAG service	Commonwealth Government Training	\$20,000/ year (2014-2016)
Kimble, R.	NeoResus Education	Queensland Health Project	\$150,000/ year (2014-2017)
Kimble, R.	Perinatal Mental Health Project	Queensland Health Project	\$150,000/ year (2014-2017)
Duncombe, G. *, Salamon, C., Rice, G., Smith, M., Rosser, S., Jackson, E. Mitchell, M., Callaway, L.	Role and Regulation of placental-derived exosomes in the onset and development of Gestational Diabetes Mellitus (GDM)	RBWH Foundation	\$66,000 (2014)
Lust, K., Matusiak, K., Callaway, L., Dekker Nitert, M., Barrett, H.	Periconception weight loss and the epigenetic regulation of stress and growth in the infant	RBWH Foundation Project	\$40,000 (2014)
Callaway, L., Dekker Nitert, M., Barrett, H., Morrison, M.	How important is a mother's touch?	RBWH Foundation Project	\$40,000 (2014)
Czovek, D., Sly, P., Callaway, L., McIntyre, H., Dekker Nitert, M.	Longitudinal effects of probiotic supplementation during pregnancy on the body composition and growth of infants	Queensland health Strategic Health Initiatives	\$78,000 (2014)
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	\$25,000 (2014)



# Department of Perinatal Research Centre



**Professor Paul Colditz**  
Director  
Perinatal Research Centre

## Overview

**About this service:** The Perinatal Research Centre is committed to improving the health of mothers and babies through world class biomedical and clinical research. The multidisciplinary research team from medicine, science, nursing, psychology, epidemiology, physiotherapy, other allied health, signal processing and biomedical engineering backgrounds, aims to discover and translate research advances into improved clinical practice and better health outcomes for mothers and babies.

**Highlights of 2014:** Two new NHMRC grants were awarded in 2014. Professor Paul Colditz leads a team with a \$1.65 million grant over 5 years that represents a new collaboration with Monash University to predict neurodevelopmental disability in babies born very preterm, earlier and more accurately than currently possible, by identifying structural and functional brain connectivity features that correlate with clinical measures of motor and neurodevelopmental function. Dr Tracey Bjorkman leads a new NHMRC project to evaluate a novel therapy for neuroprotection in the brain injured baby. Furthermore, several multisite clinical trials of international importance are underway with Perinatal Research Centre researchers and nurses within RBWH and the Mater Hospital.

**Benefits for clinical practice:** One clinical trial underway is the NEST (neonatal electrographic seizure trial) trial which will establish the best way to manage seizures in newborn babies. The Prem Baby Triple P Parenting Study is now half way to completion. This research project, funded by NHMRC and led by

Prof Colditz, will determine whether this parenting intervention improves outcomes for preterm babies. Other ongoing clinical trials which utilise state-of-the-art methods and techniques include predicting motor outcomes in preterm babies using MRI, establishing the effects of massage in very preterm babies, optimising adaptation of the cardiovascular system to extrauterine life in the very preterm baby, and determining the effects of different feeding regimens on development in preterm babies. These studies will have major impacts on defining best practice in clinical care to ensure best outcomes for babies and their families.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Professor Paul Colditz</b>	MBBS, MBiomedE, DPhil (Oxford), FRACP FRCPC	Director, Perinatal Research Centre (PRC), Deputy Director, UQCCR	Clinical neonatology, neuroscience, biomedical signal processing
<b>A/Prof Leonie Callaway</b>	MBBS (Hons), FRACP, PhD, GCE Lead	Head, Northern Academic Cluster, UQ, Staff Specialist General and Obstetric Medicine, PRC Senior Honorary Research Fellow	Obstetric Medicine, Obesity in pregnancy, Probiotics in pregnancy, Complement in pregnancy
<b>Prof David McIntyre</b>	MB BS FRACP	Director of Endocrinology and Obstetric Medicine, Mater Health Services, And Head of Mater Clinical School, UQ. PRC Senior Honorary Research Fellow	Medical disorders of pregnancy, regulation of fetal growth and intensive therapy of Type 1 diabetes
<b>Dr Barbara Lingwood</b>	MSc PhD	Senior Research Fellow	Cardiovascular function in the preterm infant
<b>Dr Tracey Bjorkman</b>	BSc MPhil PhD	Lions Medical Research Foundation Senior Research Fellow	Hypoxic-ischemic brain injury and seizures in the neonate
<b>Dr Susan Sullivan</b>	BSc (Hons) PhD	NHMRC Research Fellow	The role of astrocytes in perinatal hypoxia/ischemia
<b>Dr Yvonne Eiby</b>	BSc (Hons) PhD	NHMRC Research Officer	The cardiovascular system of preterm infants
<b>Dr Janet Hammill</b>	AM PhD MTH RN	Coordinator	Collaboration for Alcohol Related Developmental Disorders
<b>Dr Timothy Donovan</b>	MB, BS, MPH, FRACP (Paed) Neonatal Paediatrician, RBWH, Associate Professor UQ	Neonatologist RBWH, PRC Senior Honorary Research Fellow	Improving outcomes for preterm infants particularly in the area of nutrition, growth/ body composition and development. Ongoing research in the use of telemedicine to provide outreach care of sick infants in regional hospitals. Epidemiology of gastroschisis
<b>Dr Helen Barrett</b>	MBBS PhD	Research Fellow	Complications of pregnancy
<b>Dr Marloes Dekker</b>	MSc PhD	Senior Research Fellow	Metabolism and epigenetics in complications of pregnancy
<b>Professor Boualem Boashash</b>	BE/B.Sc., M.Sc., Dr. Ing. (Ph.D.)	Prof, College of Engineering, Qatar University. Signal Processing Group Leader, PRC.	Time-frequency signal analysis, biomedical signal processing, spectral estimation, signal detection and classification

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>A/Prof Stephen Rose</b>	BSc PhD	Principal Research Fellow	Development and application of advanced MRI techniques to aid the detection and monitoring of disease processes
<b>A/Prof Nigel Barnett</b>	MSc DPhil (Oxon)	PRC Senior Honorary Research Fellow	The effects of hypoxia/ischaemia in visual development and disease
<b>Dr Simon Finnigan</b>	PhD	Senior Research Fellow	Brain monitoring techniques to improve outcomes for critically ill patients (e.g., extremely premature babies; stroke patients)
<b>A/Prof Glenda Gobe</b>	PhD	Honorary Senior Research Fellow	Effects of hypoxia ischaemia on organs including brain
<b>Prof Eugene Lumbers</b>	MBBS, MD, DSc	Emeritus Scientia Professor, UNSW. Conjoint Professor Uni of Newcastle. Honorary PRC Senior Research Fellow	Fetal origins of adult diseases, hypertension, development of control of the circulation, exercise and training, and renal development and function
<b>Prof Christine East</b>	RN, RM, DAppSc, BAppSc, MMSc, Grad Cert Health stud, PhD	PRC Senior Honorary Research Fellow	Prof Midwifery, Monash University. Fetal monitoring
<b>A/Prof Vicki Flenady</b>	MMed Sc (Clin Epid)	PRC Senior Honorary Research Fellow	Perinatal researcher at the Centre for Clinical Studies
<b>Dr Michael Colditz</b>	MBBS, MPhil	PRC Honorary Research Fellow	Clinical neuroscience
<b>Dr Margo Pritchard</b>	RN EM ANNC BA PhD	Principal Trialist. Perinatal Research Centre and RBWH; Honorary Research Consultant School of Nursing and Midwifery and School of Medicine. Senior Lecturer, Queen's University Belfast, UK	Child health surveillance and intervention
<b>Dr David Gunn</b>	MBBS, PhD	PRC Honorary Research Fellow	
<b>Dr Aven Lee</b>	BSc (Hons), PhD	NHMRC Research Officer	Molecular biology and protein biology of the brain
<b>Dr Shiyang Dong</b>	PhD	Research Associate	Signal processing: applications to the analysis and detection of perinatal asphyxia
<b>Dr Julie Wixey</b>	BSc (Hons), PhD	Research Officer	Hypoxic-ischemic brain injury and inflammation in the neonatal brain
<b>Dr Melissa Lai</b>	MBBS, BPharm	Principal House Officer, PhD student	EEG in preterm babies
<b>Dr Leanne Winter</b>	PhD BPsychSc (Hons) BBus	Project co-ordinator	Prem Baby Triple P
<b>Ms Donna Hovey</b>	RN NNC BN (Hons)	Research Nurse	Clinical Trials
<b>Ms Lisa McKeowen</b>	RN, BSc	Research Nurse	Clinical Trials Group
<b>Ms Stephanie Miller</b>	BSc (Hons)	Research Assistant	Hypoxic-ischemic brain injury and seizures in the neonate
<b>Ms Karen Taylor</b>	RN, Endorsed Midwife, Neonatal Intensive Care	Research Nurse	Clinical Trials Group supporting: Enhanced parenting to improve developmental outcomes in preterm infants
<b>Ms Anja Frew</b>	RN	Research Nurse	Clinical Trials
<b>Ms Kellie McGrory</b>	RN	Research Nurse	Clinical Trials
<b>Ms Keren Elfverson</b>	RN	Research Nurse	Clinical Trials

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Henry Tsao	MPhil UQ (Awarded 2014)	Unravelling the organisation and microstructure of sensorimotor brain networks in children with congenital hemiparesis
Norman Ma	MPhil, UQ (2011-2015)	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions
Ms Kristine Matusiak	MPhil, UQ (2012-2015)	Periconceptional weight loss: what are the effects on the HPA axis in the infant?
Ms Carla Odenthal	MPhil, UQ (2013-2015)	Can MRI at 3 and 5 years after first demyelinating event detect reduction in brain volume in patients who progress to clinically definite MS compared to those who do not?
Dr Shiyong Dong	PhD, UQ (Awarded 2014)	Time-frequency characterization of heart rate variability signals: applications to the analysis and detection of perinatal asphyxia
Dr Kerstin Pannek	PhD, UQ (Awarded 2014)	Diffusion MRI of the preterm infant brain
Dr Hanna Reinebrant	PhD, UQ (Awarded 2014)	The brainstem serotonergic system following neonatal hypoxic-ischemic injury
Shehza Moonshi	PhD, UQ (2014-2017)	Innovative approaches to tracking of stem cells in models of glioma
Ms Ann Peacock	PhD, UQ (2011-2015)	Walking for exercise to prevent diabetes for you (Wendy) project
Nurzalin Zalbazar	PhD, UQ (2012-2015)	Maternal haemoglobin status and long-term child health status
Ms Stephanie Miller	PhD, UQ (2008-2015)	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Ms Naomi Achong	PhD, UQ, (2011-2015)	Insulin requirements in pregnant women with type 1 diabetes mellitus during late pregnancy and the peripartum period
Ms Maryam Odabae	PhD, UQ, (2011-2015)	Non-stationary signal processing methods for newborn seizure prediction
Ms Sonia Sam	PhD, UQ, (2011-2015)	Cardiovascular factors associated with poor outcome in preterm infants
Mr David Small	PhD, UQ, (2011-2015)	Molecular biomarkers for chronic kidney disease: identification of potential mediators of oxidative damage and targets for novel treatments
Ms Rebecca Caesar	PhD, UQ, (2012-2015)	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants
Ms Nada Al-Theyab	PhD, UQ, (2012-2015)	Preterm infant body composition
Mr Siamak Layeghy	PhD, UQ, (2012-2015)	Fetal movement detection and classification
Mr Lucas McLindon	PhD, UQ, (2012-2015)	Luteal phase progesterone supplantation for the subfertile population and in early pregnancy for threatened miscarriages
Ishani Sahama	PhD, UQ, (2012-2015)	Investigating connectivity and neuroinflammation within corticomotor networks in ataxia-teleangiectasia: Improving our understanding of the clinical phenotype
Mr Simon Scheck	PhD, UQ, (2012-2015)	Motor, sensory, visual and executive function brain networks in children with unilateral cerebral palsy
Ms Emma Schleiger	PhD, UQ, (2012-2015)	Ameliorating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals
Ms Nabeel Sheikh	PhD, UQ, (2012-2015)	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke
MD Abdul Awal	PhD, UQ, (2013-2016)	Classification and localization of neonatal EEG abnormalities using time-frequency image processing based neural network and support vector machine
Ms Tracey Allen	PhD, UQ, (2013-2016)	How does a failing kidney kill the heart?
Ms Natalie McKirdy	PhD, UQ, (2013-2016)	An investigation of retinal cells and their micro-environment: exploring the design of neuroprotective agents and biomaterials for their transplantation
Keng Ng	PhD, UQ, (2013-2016)	Better molecular signatures for renal oncocytomas versus chromophobe renal cell carcinoma.

## Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Alex Pagnozzi	PhD, UQ, (2013-2016)	Automatic construction of normal and abnormal tissue models from mined datasets for delineation of abnormalities
Lee Reid	PhD, UQ, (2013-2016)	Measuring neuroplasticity in children with acquired brain injury using diffusion and functional MRI
Hafiz Suleria	PhD, UQ, (2013-2016)	Bioactives from seafood and other processing waste streams
Mr Michael Beckman	PhD, UQ, (2014-2017)	Methods of induction of labour
Dr Helen Barrett	PhD, UQ, (Awarded 2014)	Maternal lipids and placental lipases in complicated pregnancy
Mr Amir Omidvarni	PhD, UQ, (Awarded 2014)	Newborn EEG connectivity analysis using time-frequency signal processing techniques
Ms Doreen Awabdy	PhD, UQ, (2002-2015)	Neuroprotection and neuroreceptor ontogeny in the developing brain

## Awards and achievements

Award	Event	Recipient
Life membership	SIDS&Kids Qld	Colditz, P.
RBWH Postgraduate Research Scholarship	RBWH Foundation Research Advisory Committee	Lai, M.
Outstanding Young Investigator	UQCCR Shimadzu Awards Seminar	Sullivan, S.
Shimadzu Research Excellence Award	UQCCR Shimadzu Awards Seminar	Lingwood, B.
Distinguished Visiting Professor	Lawrence S Bloomberg Facility of Nursing	Pritchard, M.

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Callaway, Leonie K; McIntyre, David; Dekker, Marloes; Tobin, J.; Wilkinson, Shelley; O'rourke, Peter K & Mcsweeney, C.	A randomized controlled trial of probiotics to prevent gestational diabetes	NHMRC, Project	\$828,718.5 (2012-2014)
Britten, Fiona; Duncan, Emma L; Callaway, Leonie K & Brodribb, Wendy E	Breastfeeding in mothers with Type 2 Diabetes: Breastfeeding rates, maternal benefits and factors affecting success	RBWH	\$27,500 (2014)
Fay, Michael; Rose, Stephen E; Martin, Jennifer & Boyd, Andrew W	The effect of valproate in the treatment of high grade glioma: validation of pathology and imaging biomarkers	Queensland Health	\$42,000 (2013-2014)
Gobe, Glenda C	The Gastrointestinal Microbiota and Insulin Resistance: the effect of a Synbiotic (Multi-strain Probiotic and Prebiotic) preparation on Inflammatory Biomarkers in Obese Adults	Health World Limited	\$18,080 (2014)
Brooks, H. & Gobe, Glenda C	UQ Travel Award - Category 1 Assoc Prof Heddwen Brooks	UQ Travel Awards for International Collaborative Research (Category 1)	\$2,180 (2014)
Barrett, Helen L G; Dekker, Marloes; Richard, K. & Callaway, Leonie K	Metabolic toxins and placental functions	RBWH	\$49,775 (2014)

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Li, Li; Hudson, M'liss; Morais, Christudas & Gobe, Glenda C	Understanding the role of lymph node stromal microenvironment in renal cell carcinoma progression	UQ-Ochsner Seed Fund for Collaborative Research - DVCR funds	\$22,200 (2014)
Gandhi, Maher; Soyer, Hans P; Prow, Tarl; Barbour, Andrew P; Gobe, Glenda C; Powell, Elizabeth; Ho, Ken; Stowasser, Michael; Martin, Jennifer & Le Cao, Kim-Anh	High throughput gene expression of patient samples via the Nanostring nCounter system	UQ Major Equipment and Infrastructure	\$169,533 (2014)
Martin, Jennifer; Rose, Stephen E; Fay, M.; Thomas, P.; Head, R.; Cosgrove, L. & Dowson, N.	Targeting existing therapies with innovative technology platforms to improve survival in brain cancer	Cancer Council Queensland	\$220,000 (2014-2015)
Boyd, Roslyn N; Colditz, Paul B; George, Joanne M & Rose, S.	Prediction of Preterm Early Motor and neurodevelopmental Outcomes using advanced brain imaging and an early assessment toolbox	Cerebral Palsy Alliance	\$148,500 (2014-2015)
Callaway, Leonie K; Murphy, V.; Gibson, P.; Hensley, M.; Mattes, J.; Giles, W.; Peek, M.; Bisits, A.; Mccaffery, K. & Barrett, Helen L G	The Breathing for Life Trial (NHMRC Project Grant administered by the University of Newcastle)	University of Newcastle	\$47,840.06 (2014)
Boyd, Roslyn N; Colditz, Paul B & George, Joanne M	PPREMO: Prediction of Preterm Early Motor and neurodevelopmental Outcomes	Financial Markets Foundation for Children	\$151,784 (2014-2016)
Bjorkman, Tracey	Lions Senior Medical Research Fellowship: Seizures and injury in the newborn hypoxic-ischemic brain	Senior Medical Research Fellowship	\$440,000 (2011-2015)
Lingwood, Barbara E; Wright, I.; Lumbers, E. & Colditz, Paul B	An integrated approach to inotropic support in preterm neonates	NHMRC, Project	\$670,920 (2012-2015)
Rose, Stephen E; Boyd, A.; Whittaker, Andrew K; Thomas, P.; Fay, M. & Fisk, Nicholas M	The development of innovative Multiplexed Molecular Imaging technology targeting improved diagnostic imaging of Glioblastoma Multiforme	NHMRC, Project	\$389,925 (2012-2014)
Colditz, Paul B; Sanders, Matthew R; Boyd, Roslyn N; Pritchard, Margo A; Gray, Peter H; O'callaghan, Michael; Slaughter, Virginia & Whittingham, Koa L	A randomised controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants	NHMRC, Project	\$996,335.25 (2012-2016)
Rose, Stephen E	Establishment of the Brain Cancer Discovery Collaborative	Monash University	\$12,0000 (2014)
Mitchell, Murray; Rose, Stephen E; Crozier, Stuart; Whittaker, Andrew K; Langton, C.; Salvado, Olivier; Obermair, Andreas; Farah, Camile S; Coulthard, Alan; Gardiner, Robert A; Lakhani, Sunil; Kenny, L.; Macfarlane, D. & Others	ACRF Molecular Oncology Translational Imaging Facility (MOTIF)	Australian Cancer Research Foundation	\$2,200,000.00 (2014)
Duncombe, Gregory J & Eiby, Yvonne A	Improving treatment for preterm cardiovascular compromise	RBWH	\$69,778.50 (2014)
Eiby, Yvonne A	The role of calcium in preterm heart function	UQ Early Career Researcher	\$35,000.00 (2014)
Colditz, Paul B; Sanders, Matthew R; Boyd, Roslyn N; Pritchard, Margo A; Gray, Peter H; O'callaghan, Michael; Slaughter, Virginia & Whittingham, Koa L	Prem Baby Triple P: A RCT of Enhanced Parenting to Improve Developmental Outcomes in Preterm Infants	RBWH	\$45,870.00 (2014)

## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Pritchard, Margo A	The Praecox Program: Pilot Study of an Online Educational Program to Improve Neonatal Palliative Care Practice	RBWH	\$30,822 (2014)
Pritchard, Margo A; Cartwright, D.; Roberts, C. & Manley, B.	High Flow Nasal Cannulae as Primary Support in the Treatment of Early Respiratory Disease	RBWH	\$44,159 (2014)
Donovan, Timothy J; Lingwood, Barbara E & Colditz, Paul B	Optimising brain development through rationally based nutritional interventions in preterm infants	RBWH	\$65,926 (2014)
Pelekanos, Rebecca A; Fisk, Nicholas M; Cahill, Zoe J; Colditz, Paul B; Boyd, Roslyn N & Rose, Paul	Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy	Cerebral Palsy Alliance	\$159,500.00 (2014-2015)
Colditz, Paul B & Boashash, B.	Automated Neonatal EEG Quality Assessment and Improvement using Artefact Filtering and Signal Segmentation	Qatar University	\$186,724 (2014-2015)
Colditz, Paul B & Boashash, B.	Localisation Of EEG Abnormalities For Improving Brain Monitoring Of Newborn Babies At Risk Of Brain Injury Using A Multi-Channel Time-Frequency Signal Processing Approach	Qatar University	\$356,676 (2014-2016)
Coombes, Jeff S; Brown, Wendy J; Trost, Stewart G; Macdonald, Graeme A; Isbel, Nicole M; Skinner, Tina; Wright, Olivia R L; Leveritt, Michael D; Launikonis, Bradley S; Gobe, Glenda C; Peake, Jonathan; Ward, Leigh C; Fassett, Robert & Others	Cellular metabolic respirometry and enzymatic assessment suite	UQ Major Equipment and Infrastructure	\$120,202 (2014)
Rose, Stephen E; Boyd, A.; Whittaker, Andrew K; Thomas, P.; Fay, M. & Fisk, Nicholas M	The development of innovative Multiplexed Molecular Imaging technology targeting improved diagnostic imaging of Glioblastoma Multiforme	NHMRC, Project	\$389,925 (2012-2014)
Whittaker, Andrew K; Rose, Stephen E & Peng, Hui	MRI Molecular Imaging Agents - From Fundamental Design to In Vivo Applications	ARC Discovery Projects, Project	\$859,230 (2011-2015)
Flenady, Vicki; Gardener, Glenn J; Ellwood, D.; Charles, A.; Coory, M.; Gordon, L.; Mahomed, K.; Khong, T.; Gordon, A. & Kent, A.	Investigating causes of stillbirths	NHMRC, Project	\$244,643 (2013-2014)
Flenady, Vicki; Gardener, Glenn J; Middleton, P.; Coory, M.; Ellwood, D.; Crowther, C.; East, C.; Callander, E.; Norman, J. & Boyle, Fran	My Baby's Movements: A stepped wedged cluster randomised trial of maternal awareness and reporting of decreased fetal movements to reduce stillbirth	NHMRC, Project	\$1,364,273 (2014-2018)
Sullivan, S.	Protecting newborn brain cells with erythropoietin	UQ M+BS Emerging Leaders Medical Research Grant	\$10,000 (2014)
Lingwood, B., Donovan, T.	Human Milk Analyser	RBWH Auxiliary	\$27,000 (2014)
Kildea, S., King, S., Austin, M., Brunet, A., Hurrion, E., Laplante, D., Mcdermott, B., McIntyre, D., Schmitz, N., Stapleton, H., Vaillancourt, C., Dawson, P., Harris, M.	The effects of the Queensland floods on pregnant women, their pregnancies and their children's early development	Douglas Hospital Research Centre	\$267,966 (2014-2015)

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## Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Duncombe, G.; Eiby, Y.	Improving the efficacy of current inotropic treatments for preterm cardiovascular compromise using a porcine model.	RBWH	\$69,778 (2014)
Pow, D.; Lee, A., Poronnik, P., Balcar, V.	The Transportome: a coordinate complex regulating brain excitation and inhibition	NHMRC, Project	\$592,000 (2013-2015)

# Queensland Centre for Gynaecological Cancer



## Overview

**About this service:** The Queensland Centre for Gynaecological Cancer (QCGC) is a state-wide service for the management of women with gynaecological cancer. QCGC Research is the research branch of QCGC. The Director of QCGC Research is Professor Andreas Obermair who leads and develops the unit to produce meaningful research outcomes.

QCGC Research's mission is to research and develop the best standard of care for women experiencing gynaecological cancer. This may include finding causes for and preventing gynaecological cancer; and finding better treatment options to cure women affected by gynaecological cancer.

QCGC Research's focus is on conducting surgical clinical trials in the field of gynaecological cancer but we also perform groundbreaking work outside the conventional clinical trials framework.

**Assoc. Prof. James Nicklin**  
Clinical Director  
Gynaecological Oncology

Our research is funded partly by competitive research grants (NHMRC project grants, smart state research grants, Cancer Australia), by support from individual and corporate donors as well as from fundraising events.

**Highlights of 2014:** Research has focused on the conservative treatment of endometrial cancer. The feMMe trial allows a large number of women to have effective treatment of their endometrial cancer without the need for major surgery and its implications.

**Benefits for clinical practice:** Our research activities help improve patient outcomes by researching the most effective treatments for women with gynaecological cancers.

## Research staff

Name	Qualifications	Position	Interests/specialities
<b>Assoc Prof James Nicklin</b>	MBBS, FRANZCOG, CGO	Clinical Director, Gynaecological Oncology	gynaecological oncology
<b>Prof Andreas Obermair</b>	MD, FRANZGOG, CGO	Director of Research	gynaecological oncology
<b>Dr Russell Land</b>	MBBS, FRANZCOG, Grad Dip (Palliative Care), CGO	Visiting Medical Officer	gynaecological oncology
<b>Dr Andrea Garrett</b>	MBBS, MSc, FRANZCOG, Dip Pall Care	Visiting Medical Officer, Assistant Director Gestational Trophoblastic Centre	gynaecological oncology, gestational trophoblastic disease
<b>Dr Joanna Arnold</b>	MBBS, MRANZCOG, FRANZCOG, DRH	Advanced Trainee in Gynaecological Oncology	gynaecological oncology
<b>Dr Adam Pendlebury</b>	Med BSC Surgery, BMed Sci, MRANZCOG	Advanced Trainee in Gynaecological Oncology	gynaecological oncology
<b>Dr Nisha Jagasia</b>	B Med BSC Surgery, MRANZCOG	Advanced Trainee in Gynaecological Oncology	gynaecological oncology
<b>Judith Eddy</b>	RN, RM	Gynaecological Oncology Case Manager	oncology nurse specialist
<b>Shona Morrison</b>	BNurs, RN	Gynaecological Oncology Clinical Nurse	gynaecological oncology, gestational trophoblastic disease
<b>Karen Sanday</b>	BSc, HIM	Gynaecological Oncology Data Manager	gynaecological oncology
<b>Trudi Cattley</b>	BAppSc, GradCert (Clinical Trial Management)	Clinical Research Manager	clinical trials
<b>Fiona Menzies</b>	BSc, Dip Pharmacy Technician	Clinical Trial Manager	clinical trials
<b>Vanessa Behan</b>	BNurs	Clinical Trial Manager	clinical trials
<b>Sara Scalzo</b>	BHIM	Clinical Trial Manager	Clinical trials
<b>Kerry Millgate</b>	BNurs, Grad Dip (Respiratory Sc)	Clinical Trial Coordinator	clinical trials
<b>Anne Hughes</b>	BSc	Clinical Trial Monitor	clinical trials



## Research grants

Investigators <small>*RBWH staff; bold, this department</small>	Project title	Granting body and scheme	Amount awarded (years)
<b>Obermair, A.*</b> , Janda, M., Hawkes, A., Chen, C., Armes, J.	A phase II randomised clinical trial of Mirena ± metformin ± weight loss intervention in patients with early stage cancer of the endometrium	Cancer Australia Project	\$556,800 (2013-2015)
<b>Obermair, A.*</b>	Clinical Trial Data Management	Cancer Council Queensland Data Management	\$88,971 (2014)
<b>Land, R.*</b>	Validation of a nomogram to predict isolated loco-regional or distant recurrence among women with uterine cancer	RBWH Foundation Diamond Care	\$50,000 (2014)
<b>Obermair*</b> , Quinn, Brennan, Armes, Janda, Gebski	A phase II randomised clinical trial of Mirena ± metformin ± weight loss intervention in patients with early stage cancer of the endometrium	RBWH Foundation Diamond Care	\$100,000 (2014)
<b>Obermair, A.*</b>	Prophylactic Surgery and Breast Cancer	RBWH Foundation Project	\$60,000 (2014)
<b>Obermair, A.*</b>	Barriers of the uptake of laparoscopic hysterectomy	Australian Centre for Health Services Innovation Stimulus Grant	\$58,000 (2014)