

Women's and Newborn Services



Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director
Women's and Newborn Services



Tami Photinos
Acting Nursing Director
Women's and Newborn Services

Overview

Women's and Newborn Services provides a wide range of healthcare services to women and their babies in Queensland. Our dedicated team have a reputation for providing quality care, research and education and we maintain a strong connection with local universities including The University of Queensland (UQ), Queensland University of Technology (QUT), James Cook University (JCU) and Central Queensland University (CQU).

2012 was another challenging year as the need for services across all departments grows increasingly complex and demanding. Despite this, we continued to maintain an active interest in research activities as well as the provision of multiple education programs for undergraduate and postgraduate health service professionals.

Key departments

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

Executive and directing staff

Adj. Assoc. Prof. Noelle Cridland
Acting Executive Director, Women's and Newborn Services

Tami Photinos
Acting Nursing Director, Women's and Newborn Services

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

Dr Owen Ung
Director, Centre for Breast Health

Dr David Cartwright
Director, Neonatology

Dr David Baartz
Clinical Director, Gynaecology

Assoc. Prof. Rebecca Kimble
Clinical Director, Obstetric Services

Prof. Paul Colditz
Director, Perinatal Research Centre

Assoc. Prof. James Nicklin
Clinical Director, Gynaecological Oncology

Betty Byrne Henderson Women's Health Research Centre



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

Overview

The Longitudinal assessment of ageing in women (LAW Study), initiated in 2001, is a multidisciplinary and longitudinal assessment of a cohort of women, followed for development of serious medical outcomes.

To date, 490 of the original 511 women (95.5 per cent) are available for study. The master data-base is updated to analyse risk factors after 208 events at 12 years.

The satellite project (planned for 2013-2014) is entitled 'The rate of change of arterial stiffness in women aged 40-80 over 10 years, and effects of hormonal changes'.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof Soo-Keat Khoo	MBBS, MD, FRCOG, FRANZCOG	Director, Betty Byrne Henderson Women's Health Research Centre; Head, Obstetrics and Gynaecology, UQ	women's health
Dr Justin Oughton	MBBS	Co-director, Betty Byrne Henderson Women's Health Research Centre; Registrar	imaging
Adj. Dr Sheila O'Neill	MB, ChB, BAO, PhD	Associate	women's health
Prof. M. O'Rourke		Prof. Medicine	The University of New South Wales

Supervised post-graduate students

Name	Current studies	Research topic
O'Neill, S.	PhD	Arterial stiffness during menopause transition and beyond: Assessment of hormonal and sociodemographic factors
Oughton, J.	PhD	Relationship between hyperintensity lesions in the brain and central arterial stiffness in ageing women

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Khoo, SK	Longitudinal assessment of ageing in women (LAW Study)	RBWH Foundation	\$330,000	2011-2012

Publications

Nitz JC, Stock L, Khan A. Health-related predictors of falls and fractures in women over 40. *Osteoporosis International*. 2012;24(2):613-621, Tier A.

Lo A, H. Y., Humphreys M, Byrne G, Pachana N. Test-retest reliability and practice effects of the Wechsler Memory Scale-III. *Journal of Neuropsychology*. 2012;62:212-231.

Lo A, Pachana N, Byrne G, Sachdev, Perminder S. A review of tobacco, alcohol, adiposity, and activity as predictors of cognitive change. *Clinical Gerontologist*. 2012;35(2):148-194.

Lo A, Pachana N, Byrne G, Sachdev, Perminder S, Woodman R. Relationship between changes in body weight and cognitive function in middle-aged and older women. *International Journal of Geriatric Psychiatry*. 2012;27(8):863-872.

Wong JCH, Travers C, O'Neill S, Khoo SK. Towards validation of use of an Australian reference database for the diagnosis of osteoporosis with DXA. *Journal of Medical Imaging and Radiation Oncology*. 2012;Jun;56(3):302-4.

Grantley Stable Neonatal Unit



Dr David Cartwright
Director, Neonatology

Overview

The Grantley Stable Neonatal Unit (GSNU) at the Royal Brisbane and Women's Hospital is the tertiary referral neonatal centre for central Queensland, Brisbane to Rockhampton, specialising in the management of premature and sick babies. Its 30 intensive care beds make it the third largest intensive care nursery in Australia, and in addition there are 41 special care beds.

Admissions come mainly from the area outlined, but some are also received from southern and northern parts of Queensland, and from northern New South Wales. A retrieval service run by the unit assists in bringing outborn babies to Brisbane, transporting approximately 200 babies per year.

In 2012, there were seven full-time Neonatologists and one Visiting Medical Officer. There were two Nurse Unit Managers, one Nurse Manager, two Clinical Nurse Consultants, two full-time Nurse Educators, approximately 200 Nurses (130 full-time equivalents), of whom 85 per cent hold neonatal certificates or transition, 15 registrars, two Senior House Officers and two interns.

The unit manages all varieties of neonatal problems, with only babies requiring cardiac surgery being transferred out. Close collaboration with surgeons and medical specialists of the Royal Children's Hospital (RCH), and cardiologists and cardiac surgeons from the Mater Children's (Queensland Paediatric Cardiac Service) enhances care provision to complex cases. Most surgical procedures are performed at the Royal Children's Hospital, with the babies being immediately transferred back to the GSNU for their post-operative care.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr David Cartwright	MBBS, BSc, FRACP	Director, Neonatology; Associate Professor, UQ	general neonatology, neonatal follow up, perinatal data systems, infection
Dr Pieter Koorts	MBCHB, FRACP	Deputy Director, Neonatology; Senior Staff Specialist; Senior Lecturer, UQ	general neonatology, milk bank, bedside echocardiography
Dr Garry Inglis	MBBS, FRACP	Staff Specialist; Senior Lecturer, UQ	infection
Dr Donna Bostock	MBBS (Hons), FRACP	Staff Specialist; Senior Lecturer, UQ	neonatal simulation, general neonatology
Dr Adam Hoellering	MBBCh (Hons), BSc, FRACP	Staff Specialist; Senior Lecturer, UQ	general neonatology, haemodynamic support in the newborn, persistent patent ductus arteriosus, clinical applications of ultrasound in neonates
Dr Mark Davies	MBBS, DCH, PhD, FRACP	Staff Specialist, Neonatology	RACP advanced trainee research supervision
Dr Tim Donovan	MBBS, FRACP, MPH	Staff Specialist, Neonatology	telehealth, infant nutrition, congenital anomalies
Dr Margo Pritchard	RN, RM, NNC, BA, PhD	Principal Clinical Research Trialist	RCTs, high-risk screening and surveillance

Supervised post-graduate students

Name	Current studies	Research topic
Aleksandra, S.	PhD	Antenatal psychological interventions for women with depression and anxiety to reduce the risk of preterm birth
Song, T.	Summer Student	Longitudinal autism, development and parenting study
Cumin, M.	PhD	"Growth and body composition in preterm infants" 2011- In process
Tso, G.	Honours Medicine	"Steroid Effects on Body Composition in Neonates" 2011-2012
Coe, D.	Honours Medicine	"Regional outcomes for ELBW infants" 2012

Awards and achievements

Award	Event	Name
Best Presentation in ESPNIC Category	The 4th Congress of the European Academy of Paediatric Societies (EAPS), Istanbul, Turkey	Pritchard, M.A., (deDassal, T., Johnston, L., Beller, E., Bogossian, F., Crothers, C., Hovey, D., Russo, S., Cartwright, D.)
Nominated for best ESPNIC presentations	The 4th Congress of the European Academy of Paediatric Societies (EAPS) Istanbul, Turkey	Pritchard, M.A., (deDassal, T., Johnston, L., Beller, E., Bogossian, F., Crothers, C., Hovey, D., Russo, S., Cartwright, D.)

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Pritchard, M.A., Cartwright, D., Hovey, D., Scott, J.	A longitudinal study of autism, development and parenting in preterm infants (<29 weeks) from two to four years	RBWH Foundation	\$20,000	2012
Colditz, P., Boyd, R., Sanders, M., Pritchard, M.A., Gray, P.	A randomised, controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants	NHMRC 1024345 Project Grant	\$996,337	2012-2015

Research grants

Pritchard M, Colditz P, Beller E, Tudehope D, Gray P, Cartwright D, Six-week postpartum depression predicts parenting stress profiles in mothers of preterm children. *Journal of Reproductive and Infant Psychology*. 2012;30(3):303.

Pritchard M, Kenner C. Review of Clinical Trials. *Newborn and Infant Nursing Reviews*. 2012;12(3):120-124.

Crowther C, Dodd J, Hiller J, Haslam R, Robinson J on behalf of the Birth After Caesarean Study Group (Pritchard M). Planned vaginal birth or elective repeat caesarean: Patient preference restricted cohort with nested randomised trial. *PLoS Med*. 2012;9(3): e1001192. doi:10.1371/journal.pmed.1001192

Choi W, McBride C, Bourke C, Borzi P, Choo K, Walker R, Nguyen T, Davies M, Donovan T, Cartwright D, Kimble RM. Long-term review of sutureless ward reduction in neonates with gastroschisis in the neonatal unit. *J Pediatr Surg*. 2012;47(8):1516-1520.

Davies M, Jardine LA. How to write a book review. In: Hall G, Editor. *How to write a paper*. 5th ed. Chichester, UK: John Wiley and Sons Ltd; 2012:98-101.

Davies M, Dunster K, Fraser J, Colditz P. The effects of perfluorocarbon dosing strategy on cerebral blood flow when starting partial liquid ventilation: A randomised, controlled, experimental study. *Open Journal of Pediatrics*. 2012;2(3):197-213.

Risson D, Davies M, Williams B. A review of neonatal alloimmune thrombocytopenia (NAIT). *J Paediatr Child Health*. 2012;48(9):816-822.

Risson D, Williams B, Davies M. An introduction to the Australian NAIT Registry. *J Paediatr Child Health*. 2012;48(9):716.

Davies M. Water births and the research required to assess the benefits versus the harms. *J Paediatric Child Health*. 2012;48(9):726-729.

Davies M, Inglis G, Jardine L, Koorts P, editors. *Antenatal Consults: A guide for neonatologists and paediatricians*. Sydney: Elsevier Australia; 2012.

Jardine L, Davies M. Breathing problems in the newborn. In: South M, Isaacs D, editors. *Practical Paediatrics*. 7th ed. UK: Churchill Livingstone Elsevier; 2012:352-362.

Stewart A, Inglis G, Jardine L, Koorts P, Davies M. Prophylactic antibiotics to reduce morbidity and mortality in newborn infants with intercostal catheters. *Cochrane Database Syst Rev* 2012, Issue 4. Art. No.: CD008173. DOI: 10.1002/14651858.CD008173.pub2.

Mills R, Davies M. Enteral iron supplementation in preterm and low birth weight infants. *Cochrane Database Syst Rev* 2012, Issue 3. Art. No.: CD005095. DOI: 10.1002/14651858.CD005095.pub2.

Davies M. Partial liquid ventilation in the extremely preterm infant: potential benefits and harms. In: Irusen EM, editor. *Lung Diseases*. Rijeka: InTech. 2012:505-522.

Hough J, Shearman A, Jardine L, Davies M. Humidified high flow nasal cannulae: survey of current practice in Australasian nurseries. *J Paediatr Child Health* 2012;48(2):106-113.

New K, Flint A, Bogossian F, East C, Davies M. Transferring preterm infants from incubators to open cots at 1600 grams: A multicentre randomised controlled trial. *Arch Dis Child Fetal Neonatal Ed*. 2012;97(2):F88-F92.

Jardine L, Cartwright D, Dunster K, Davies M. Measurement of inspired gas temperature in the ventilated neonate. In: Esquinas A, editor. *Humidification in the Intensive Care Unit*. Berlin: Springer; 2012:267-270.

Donovan T, Buchanan K. Medications for increasing milk supply in mothers expressing breastmilk for their preterm hospitalised infants. *Cochrane Library (Review)*, DOI: 10.1002/14651858.CD005544.pub2. 2012.

Donovan T, Armfield N. A telefuture. *Medical Journal of Australia Insight*. 2012 Feb http://www.mjainsight.com.au/view?post=tim-donovan-nigel-armfield-a-tele-futureandpost_id=8249andcat=comment

Donovan T, Armfield N, Coghill K, Vander Westhuysen, Hurley T, Rogers D. Remote management of ill infants by telemedicine: Improving access and outcome in a vulnerable patient group. *Journal of Paediatrics and Child Health*. 2012;48(Suppl. 1).

Armfield N, Donovan T, Bensink M, Smith A. The costs and potential savings of telemedicine for acute care neonatal consultation: Preliminary findings. *Journal of Telemedicine and Telecare*. 2012;10.1258/jtt.2012.GTH101 <http://jtt.rsmjournals.com/cgi/content/abstract/jtt.2012.GTH101v1>.

Choi W, McBride C, Bourke C, Borzi P, Choo K, Walker R, Nguyen T, Davies M, Donovan T, Cartwright D, Kimble R. Long-term review of sutureless ward reduction in neonates with gastroschisis in the neonatal unit. *Journal of Pediatric Surgery*. 2012;47(8):1516-1520.

Department of Gynaecology



Dr David Baartz
Clinical Director, Gynaecology

Overview

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

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

Reproductive endocrinology and infertility is a division of the Department of Gynaecology. This division pertains to all aspects of human reproduction, fertility preservation and reproductive endocrinology.

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

Research staff

Name	Qualifications	Position	Interests/specialties
Dr David Baartz	MBBS, FRANZCOG	Clinical Director, Gynaecology; Director, Queensland Trophoblastic Centre	gynaecology, urogynaecology, gestational trophoblastic disease
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRACOG, FRCOG, PhD	Senior Staff Specialist	medical conditions and their effect on pregnancy, medical education, general obstetrics and gynaecology
Assoc. Prof. Rebecca Kimble	MBBS, FRANZCOG, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction (Harvard)	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service; Assoc. Prof. UQ School of Medicine.	clinical governance, maternity emergencies in a simulated environment, adolescent gynaecology, and Member of North American Society for Paediatric and Adolescent Gynaecology
Assoc. Prof. Mark Erian	LRCP, LRCS, LRCPS, DObstRCPI, MD (Univ QLD), FRANZCOG, FRCOG, FACOG, Grad Cert Education	Senior Consultant; Obstetrician; Gynaecologist	Gynaecological operative endoscopy, surgical gynaecology, high-risk obstetrics, medico-legal consultations
Dr Kar Hin Ooi	MBBS, MRCOG, FRANZCOG	Senior Staff Gynaecologist	gynaecology, urogynaecology
Dr Adrian Guest	MBBS, FRANZCOG	Visiting Gynaecologist	gynaecology
Dr Akram Khalil	MBBS, DRACOG, FRANZCOG	Consultant Gynaecologist	gynaecology, colposcopy, urogynaecology
Dr Yogesh Chadha	FRCOG, MSc, FRANZCOG	Senior Staff Specialist; Senior Lecturer, UQ	perinatology, incontinence, medical audit, health services research
Dr Lee Minuzzo	MBSS, FRANZCOG, Grad Cert Education	Staff Specialist	general obstetrics and gynaecology
Dr Wai Lum Yip	MBBS, FRANZCOG	Staff Specialist	general obstetrics and gynaecology, medical education, high risk obstetrics
Assoc. Prof. Anusch Yazdani	MBS (Hons), FRANZCOG, CREI	Visiting Gynaecology	subspecialist in reproductive endocrinology and infertility
Assoc. Prof. Philip Barton Clarke	MB, MMedSci (Urogyn), FRCSC, FRACS, FRCOG, FRANZCOG	Clinical Director, Urogynaecology	urogynaecology
Assoc. Prof. Christopher Maher	FRANZCOG, CU	Visiting Medical Officer	urogynaecology
Dr Bart Schmdit	MBBS, FRANZCOG	Staff Specialist	general obstetrics and gynaecology
Dr Owen Ung	FRACS	Director, Centre for Breast Health	breast health
Dr Ben Kroon	MBBCh, FRANZCOG CREI	Specialist	fertility and endocrinology
Dr Simon McDowell	MBBCh, FRANZCOG	Fellow	

Awards and achievements

Award	Event	Name
AGES Travelling Fellowship	AGES Annual Scientific Meeting	Kroon, B.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Yazdani, A., Kroon, B.	The impact of fatigue on surgical performance	AGES Research Foundation	\$15,000	2011-2012
Khalil, A.	Pilot study for exploring the ergonomic and clinical outcomes of robotic versus laparoscopic for hysterectomy for benign gynaecological disease quantifying biomechanical exposure	RBWH Foundation	\$20,000	2010-2013
Khalil, A.	Hold three day workshop, laparoscopic dry lab for RBWH, animal laparoscopic workshop and live laparoscopic surgical workshop	Baxter and Olympus	\$20,000	2012
Khalil, A., Khoo, S.	Phase 3 A clinical trial involving a small-size small dose progesterone slow release IUCD multi-centre, open label, single arm study to assess efficacy, safety, bleeding pattern and pharmacokinetics of the ultra low dose levonorgestrel intrauterine contraceptive system (LCS) for a maximum of three years in women 18 to 40 years of age	Bayer	\$50,000	2012-2013

Publications

- Jones A, Jones I. Managing the early puerperium. *Medicine Today*. 2012;13:4:31-40.
- Jones I. Skin infections of the vulva. *Medicine Today*. 2012;13:5:27-34.
- Jones I, Crandon A, Sanday K. Melanoma of the Vulva: A retrospective study of 46 cases from Queensland. *Open J Obstet Gynecol*. 2012;2:120-126.
- Jones I, Crandon A, Sanday K. Basal cell carcinoma of the vulva. *Open J Obstet Gynec*. 2012;2:136-139.
- Jones I, Jones AI. Vulval dystrophies: A long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:210-212.
- Jones I. Influences on the study of Vulvar Anatomy. *Open J Obstet Gynec*. 2012;2:3:223-226.
- Jones I. Melanosis of the vulva: A small, long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:247-249.
- Jones ISC. A Review of conditions altering the permanent appearance of the vulva. *Open J OandG*. 2012;2:4:382-384.
- Jones I, Crandon A, Sanday K. Bartholin's gland carcinomas: A 20 plus-year experience from Queensland. *Open J Obstet Gynec*. 2012;2:4:385-388.
- Jones ISC, O'Connor AE. Non-Obstetric Vulvar Trauma. *Emergency Medicine Australasia* 2012. published on line 29 Nov.
- Koch J, Rowan K. et al. Endometriosis and infertility - A consensus statement from ACCEPT (Australasian CREI Consensus Expert Panel on Trial evidence). *Aust N Z J Obstet Gynaecol*.
- Kroon B, Hart RJ et al. Antibiotics prior to embryo transfer in ART. *Cochrane Database Syst Rev* 3: CD008995. 2012.
- Kroon B, Kroon F et al. Post-mortem sperm retrieval in Australasia. *Aust N Z J Obstet Gynaecol*. 2012;52(5):487-490.
- Jones A, Jones I. Managing the early puerperium, *Medicine Today*, 2012, 13: 4:31 – 40.
- Jones I. Skin infections of the vulva. *Medicine Today*, 2012, 13: 5:27 – 34.
- Jones I, Crandon A, Sanday K. Melanoma of the Vulva: A retrospective study of 46 cases from Queensland. *Open J Obstet Gynecol*. 2012;2:120-126.
- Jones I, Crandon A, Sanday K. Basal cell carcinoma of the vulva. *Open J Obstet Gynec*. 2012;2:136-139.
- Jones I, Jones AI. Vulval dystrophies: A long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:210-212.
- Jones I. Influences on the study of Vulvar Anatomy. *Open J Obstet Gynec*. 2012;2:3:223-226.
- Jones I. Melanosis of the vulva: A small, long-term follow-up from Brisbane, Australia. *Open J Obstet Gynec*. 2012;2:3:247-249.
- Jones ISC. A Review of conditions altering the permanent appearance of the vulva. *Open J OandG*. 2012;2:4:382-384.
- Jones I, Crandon A, Sanday K. Bartholin's Gland Carcinomas: A 20 plus-year experience from Queensland. *Open J Obstet Gynec*. 2012;2:4:385-388.

Publications

Jones ISC, O'Connor AE. Non-Obstetric Vulvar Trauma. *Emergency Medicine Australasia* 2012. published on line 29 Nov.

Koch J, Rowan K et al. Endometriosis and Infertility - A consensus statement from ACCEPT (Australasian CREI Consensus Expert Panel on Trial evidence). *Aust N Z J Obstet Gynaecol.* 2012.

Kroon B, Hart RJ et al. Antibiotics prior to embryo transfer in ART. *Cochrane Database Syst Rev* 3: CD008995. 2012.

Kroon B, Kroon F et al. Post-mortem sperm retrieval in Australasia. *Aust N Z J Obstet Gynaecol.* 2012;52(5):487-490.



Assoc. Prof. Rebecca Kimble
Clinical Director,
Obstetric Services

Overview

The Department of Maternity Services at RBWH encompasses many major multidisciplinary services. It has continued to have increasing activity over the last few years.

It remains the largest provider of tertiary and quaternary obstetric care in Queensland with a referral base for tertiary transfers of care primarily from around Central Area Health Service; however northern New South Wales patients continue to be serviced through RBWH Maternity Services.

The multidisciplinary services include:

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

Maternity Services collaborate closely with the Perinatal Research Centre for ongoing multi-centre research projects.

The Maternal Fetal Medicine unit provides a comprehensive and competitive environment to provide prospective and retrospective research/audit.

Currently there are three ongoing prospective research activities and retrospective research review performed by the fellows and consultants. Audits are performed by residents who rotate through the Maternal Fetal Medicine (MFM) Unit.

The Obstetric medicine unit is active in clinical and basic science research across all medical problems which occur throughout pregnancy. A number of PhD candidates are currently undertaking research in areas related to maternal medical conditions in pregnancy and the effects on pregnancy outcomes. The unit has been successful in numerous research grants including NHMRC grants and RBWH grants. The unit undertakes six obstetric medicine clinics per week and two telehealth clinics to regional and rural Queensland.

Statewide Paediatric and Adolescent Gynaecology Service

Established by Associate Professor Rebecca Kimble, this is the only service in Queensland, and supports patients from northern New South Wales. This service provides super-specialty care to girls between the ages of eight years to mid twenties with complex congenital surgical conditions, disorders of sexual development, disabled patients, menstrual abnormalities and many other gynaecological conditions.

It has been awarded site-specific grants by Queensland Health commencing in 2011, recognising it as a super-specialty. The Commonwealth Department of Health and Aging (DoHA) has granted it a RANZCOG accredited funded Fellow's position commencing 2011 for three years, with a high likelihood for continuation indefinitely.

Further support for the expanding service has been provided by Queensland Health in funding a new specialist position commencing 2012-2013 after negotiation between Professor Kimble and Queensland Health Director-General. This should allow the establishment of a Statewide Telehealth Service.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Rebecca Kimble	MBBS, FRANZCOG, GradCert Training and Assessment (IPS), Certificate in Simulation Instruction (Harvard) Prince 2 Project Management, Managing Successful Programs (MSP)	Clinical Director, Obstetric Services and State Paediatric and Adolescent Gynaecology Service, Assoc. Prof. UQ School of Medicine, Qld Founder and Director, Queensland Maternity and Neonatal Clinical Guidelines Program, Chair, Statewide Maternity and Neonatal Clinical Network	clinical governance, maternity emergencies in a simulated environment, paediatric and adolescent gynaecology, member of North American Society for Paediatric and Adolescent Gynaecology
Prof. Ian Jones	AM, RFD, MBChM, MHA, MEdStud, DipObs, GradCertEd, FRACOG, FRCOG, PhD	Senior Staff Specialist	medical conditions and their effect on pregnancy, medical education, general obstetrics and gynaecology
Dr Yogesh Chadha	FRANZCOG, MSc, FRCOG	Senior Staff Specialist	obstetrics and gynaecology
Dr Karin Lust	MBBS, FRACP	Clinical Director of Obstetric Medicine and General Physician	medical disorders in pregnancy, preconception counseling, contraception
Assoc. Prof. Leonie Callaway	MBBS, FRACP	General Physician and Obstetric Physician Head, Royal Brisbane Clinical School	obstetric medicine obesity
Dr Carol Portmann	MBBS, FRANZCOG, CMFM, MSc	Staff specialist	previable IUGR, termination of pregnancy, Fetal medicine
Dr Greg Duncombe	MBBS, FRANZCOG, CMFM	Maternal Fetal Medicine, Staff Specialist P/T	maternal fetal medicine
Dr Renuka Sekar	MBBS, FRANZCOG, CMFM	Maternal Fetal Medicine, Staff Specialist	talipes, ventriculomegaly
Dr Johanna Laporte	DipGynObs, FRANZCOG	Staff Specialist Obstetrics	maternal and fetal medicine
Dr Ranjit Singh	MBBS	Honorary MFM Registrar	ultrasound
Dr Andreas Lee	FRANZCOG	Staff Specialist	radiology and ultrasound
Dr Narelle Fagermo	MBBS, FRACP	General Physician and Obstetric Physician	obstetric medicine
Dr Penny Wolski	MBBS, FRACP	Endocrinologist and Obstetric Physician	obstetric medicine
Dr Helen Barrett	MBBS, FRACP	Endocrinologist and Obstetric Physician	obstetric medicine
Dr Marloes Dekker Nitert	PhD Biomedicine	Senior postdoctoral researcher at UQCCR	obesity pregnancy complications and pregnancy outcomes
Katie Foxcroft	RN, RM	Coordinator Nurse Research	obstetric medicine, clinical trials
Dr David Danon	MD, DGO, UDG	MFM Registrar/Researcher Fellow	twin-twin transfusion syndrome
Prof. Nicholas Fisk	PhD, MBA, MBBS, FRANZCOG, CMFM, DDU, GAICD	Seniors Staff Specialist	monochorionic placentation, fetal stem cells
Dr David Danon	MD, DGO, UDG	Registrar, Maternal Fetal Medicine	fetal stem cells
Jatin Patel	PhD	Post-doctoral Researcher	fetal stem cells
Dr Edwige Roy	PhD	Post-doctoral Researcher	fetal stem cells
Dr Allison Pettit	PhD	Lecturer	fetal stem cells, bone repair
Dr Eliza Raggatt	PhD	Lecturer	fetal stem cells, bone repair
Dr Rebecca Pelekanos	PhD	Post-doctoral Researcher	fetal stem cells
Dr Susan Millard	PhD	Post-doctoral Researcher	fetal stem cells
Samuel Jesuadian	MSc	Research Assistant	fetal stem cells
Rebecca Ellis	MSc (Hons)	Research Assistant	fetal stem cells

Supervised post-graduate students

Name	Current studies	Research topic
Tapasi, B., Kimble, R.M.N.	Fellow in Paediatric and Adolescent Gynaecology (PAG)	A five-year review of management of all patients through the PAG service presenting with a request for amenorrhoea
McRae R., Kimble, RMN.	Fellow in Paediatric and Adolescent gynaecology (PAG)	Bladder Extrophy repair history in the pregnant patient, case series and literature review
Sabdia, S., Kimble, RMN.	Principal House Officer (PHO)	Review of all paediatric and adolescent gynaecology patients who have had surgery for the TRIAD of, uterus didelphys obstructed hemivagina and ipsilateral renal anomaly
Sekar, R., Duncombe, G.	Fetal Weight Study	Accuracy of estimated fetal weight prior to delivery
Laporte, J., Fisk, N	Monochorionic Twins	MCA PSV in predicting polycythemia in MCDA twins
Danon, D., Fisk, N.	MCDA twin placental study	Transfusional complications in complicated MCDA twins and complications in medical termination of pregnancy with previous caesarean section
deJersey, S.	PhD	Are we missing opportunities: understanding health behaviours associated with overweight in pregnancy
Denny, K.	PhD	Role of C5a in Fetal and Maternal Health
Barrett, H.	PhD	Maternal lipids in pregnancy
Harris, L.	PhD	Pre-eclampsia: Early identification of at-risk patients and clinical implications
Achong, N.	PhD	Insulin requirements in the peripartum period in Type 1 diabetes mellitus
Sardesai, V.	PhD	Determining the molecular mechanisms of mesenchymal stem cell lineage commitment and osteogenesis
Sepannan, E.	PhD	The contribution of microchimeric fetal stem cell sub-populations to maternal tissue repair

Awards and achievements

Award	Event	Name
ADIPS Emerging Investigator Award	2012 Australasian Diabetes in Pregnancy Society Annual Scientific Meeting, Gold Coast.	Barrett, H
IADPSG travel grant	ADIPS 2012	Barrett, H

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Kimble, R.M.N.	Queensland Maternity and Neonatal Clinical Guidelines Program Recurrent for three years (1.5 M)	Queensland Health	\$500,000	2011-2014
Kimble, R.M.N., Cartwright, D.	Rolling out "train the trainer" program for Neoresus (Victorian program)	Queensland Health	\$42,000	2012-2013
Kimble, R.M.N.	Tissue engineering a vaginal graft	RBWH Foundation Grant	\$35,000	2012
Kimble, R.M.N.	Fellow in Statewide Paediatric and Adolescent Gynaecology Services	Commonwealth STP funds	\$110,000 recurrent	2011-2013
Kimble, R.M.N.	Providing STP Training in Paediatric and Adolescent Gynaecology	Commonwealth funds	\$20,000	2012
Kimble, R.M.N.	For a new specialist to sustain the Statewide Paediatric and Adolescent Gynaecology service	Queensland Health	\$380,000	2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Kimble, R.M.N.	Aboriginal and Torres Strait Islander Health Workforce capacity Building-Perinatal Social and Emotional Wellbeing (Statewide) Project	Queensland Health	\$102,480	2011-2013
Kimble, R.M.N.	For providing STP Training in Paediatric and Adolescent Gynaecology	Commonwealth funds	\$12,000	2012-2013
Kimble, R.M.N.	For implementation of 5 antenatal clinical indicators from Statewide Pregnancy Health Record RBWH	CPIP funds	\$86,000	2012- 2013
Kimble, R.M.N.	For implementation of five antenatal clinical indicators from Statewide Pregnancy Health Record Statewide	CPIP funds	\$500,000	2012-2013
Danon, D.	Transcriptional discordancy in placentas complicated by TTTS or SGR in MCDA twins	Wiseman Trust	\$200,000	2011-2013
Barrett, H.L., Callaway, L.K., de Jersey, S.J., Lingwood, B., Dekker, N.M., D'Emden, M.	Impact of metformin treatment for gestational diabetes on gestational lipid metabolism and infant body composition: A prospective observational study.	RBWH Foundation	\$40,000	2012
Barrett, H.L., Dekker, N.M., Callaway, L.K.	Placental Lipases.	Pfizer Australia Cardiovascular Lipid Research Grant	\$39,000	2012
Barrett, H.	PhD studies	Medical and Dental Research Scholarship for PhD studies	\$32,000 year	2011-2014
Taylor, S.M., Woodruff, T.M., Callaway, L.K., Finnell, R.H.,	Inflammation and Placental Dysfunction. Inflammation of the womb during pregnancy and reproductive consequences.	NHMRC	\$967,750	2009-2013
Mamun, A.A., O'Callaghan, M., Najman, J.M., Alata, R., Williams, G.M., Clavarino, A., McIntyre, H.D., (Assoc. Investigator: Callaway, L.)	Early origins, progression and aetiology of obesity, metabolic syndrome and diabetes: A 30-year follow-up study.	NHMRC	\$1,151,675	2010-2014
Willmott, L., White, BP., Gallois, C., Parker, M., Graves, N., Winch, S., (Industry partner: Callaway, L.)	Futile treatment at the end-of-life: legal, policy, sociological and economic perspectives.	ARC Metro North	\$268,000 \$150,000	2012-2014
Callaway, L., McIntyre, H.D., Dekker, N.M., Tobin, J., O'Rourke, P., Wilkinson, S., McSweeney, C.	Probiotics and gestational diabetes mellitus.	NHMRC	\$828,718	2012-2014
Callaway, L	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies?	RBWH Foundation	\$150,000	2012
Callaway, L	Grant to write the RBWH Research Report.	RBWH Private Practice Trust Fund	\$10,000	2012
Callaway, L., Rice, G., Mitchell, M., Harris, L.,	Investigating the link between early pregnancy and obstetric disease.	RBWH Foundation	\$38,404	2012
Suhrbier, A., Callaway, L.,	Serpins and Preeclampsia.	QIMR-Clinician Collaborative Research Award	\$34,200	2012
Weinstein, P., Fisk, N.M., Cook, A. Nieuwenhuijsen, M., Nassar, D., Dobson, A.	Prospective study of birth defects from fetotoxic agents in the public water supply	NHMRC	\$703,000	2011-2014

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Fisk, N.M., Pettit, A., Khosrotehrani, K., Raggatt, L.	Preclinical optimisation of intrauterine transplantation of fetal mesenchymal stem cells for osteogenesis imperfecta	NHMRC	\$579,000	2010-2012
Fisk, N.M., Bou-Gharios, G., Khosrotehrani, K.	Functional contribution of fetal microchimeric cells in transgenic models of maternal tissue repair in and after pregnancy	NHMRC	\$545,000	2009-2011
Chan, J., Choolani, M.A., Fisk, N.M.	Generation of highly osteogenic bone tissue-engineering graft for treatment of clinical bone defects	NMRC (Singapore)	SG\$1.4 million	2011-2013
Cooper-White, J., Fisk, N.M., Grendahl, L., Wolvetang, E.J.	Scalable, high throughput microfluidic platforms for tissue specific biomaterials development and tissue genesis	Australian Research Council (ARC)	\$400,000	2010-2013

Publications

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

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

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

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

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

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

Bourne N, Groves A, McIntyre HD, Callaway L. *Am J Clin Nutr* February. 2012;95(2):529-531.

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

Hollingsworth K, Callaway L, Duhig M, Matheson S, Scott J. The association between maltreatment in childhood and pre-pregnancy obesity in women attending an antenatal clinic in Australia. *PLoS One*. 2012;7(12):e51868.

Hayashia Y, Lipman J, Udy A, Ng M, McWhinney B, Ungerer J, Lust K, Roberts J. Beta-lactam therapeutic drug monitoring in the critically ill: Optimising drug exposure in patients with fluctuating renal function and hypoalbuminaemia. *Int J Antimicrob Agents*. 2012.

Jones GN, Moschidou D, Puga-Iglesias TI, Kuleszewicz K, Vanleene M, Shefelbine SJ, Bou-Gharios G, Fisk NM, David AL, De Coppi P, Guillot PV. Ontological differences in first compared to third trimester human fetal placental chorionic stem cells. *PLoS One*. 2012;7(9).

Kimble, RM (Founder and Director, Clinical Lead, working party member) and Queensland Maternity and Neonatal Clinical Guidelines Program <http://www.health.qld.gov.au/qcg> and NHMRC Portal www.clinicalguidelines.com.au

Queensland Maternity and Neonatal Clinical Guideline and Supplement Intrapartum Fetal Surveillance
 Queensland Maternity and Neonatal Clinical Guideline and Supplement Normal Birth
 Queensland Maternity and Neonatal Clinical Guideline and Supplement Perineal Care
 Queensland Maternity and Neonatal Clinical Guideline and Supplement Primary Postpartum Hemorrhage (review)
 Queensland Maternity and Neonatal Clinical Guideline and Supplement Stillbirth Care (review)

Lingwood BE, Storm van Leeuwen AM, Carberry AE, Fitzgerald EC, Callaway LK, Colditz PB, Ward LC. Prediction of fat-free mass and percentage body fat in neonates using bioelectrical impedance analysis and anthropometric measures: Validation against the PEA POD. *Br J Nutr*. 2012;107(10):1545-52.

Liu Y, Teoh SH, Chong MS, Lee ES, Mattar CN, Randhawa NK, Zhang ZY, Medina RJ, Kamm RD, Fisk NM, Choolani M, Chan JK. Vasculogenic and osteogenesis-enhancing potential of human umbilical cord blood endothelial colony-forming cells. *Stem Cells*. 2012;30(9):1911-24.

McIntyre HF, Gibbons KS, Flenady VJ, Callaway LK. Overweight and obesity in Australian mothers: Epidemic or endemic? *Med J Aust*. 2012;196(3):184-188.

Publications

Moschidou D, Jones G, Lay K, Abdulrazzak H, Vanleene M, Shefelbine SJ, Polak J, de Coppi P, Fisk NM, Guillot P. Upregulating CXCR4 in Human Fetal Mesenchymal Stem Cells Enhances Engraftment And Bone Mechanics In a Mouse Model of Osteogenesis Imperfecta. *Stem Cells Translational Medicine*. 2012;1:70-78.

Moschidou D, Mukherjee S, Blundell MP, Drews K, Jones GN, Abdulrazzak H, Nowakowska B, Phoolchund A, Lay K, Ramasamy TS, Cananzi M, Nettersheim D, Sullivan M, Frost J, Moore G, Vermeesch JR, Fisk NM, Thrasher AJ, Atala A, Adjaye J, Schorle H, De Coppi P, Guillot PV. Valproic acid confers functional pluripotency to human amniotic fluid stem cells in a transgene-free approach. *Molecular Therapy*. 2012;20(10):1953-67.

Pelekanos R, Chen YS, Ellis RL, Jesuadian S, Horne R, Wolvetang EJ, Fisk NM. Small molecule mesengenic induction of human induced pluripotent stem cells to generate mesenchymal Stem/ Stromal Cells. *Stem Cells Translational Medicine*. 2012;1:83-95.

Ryan J, Pettit A, Guillot PV, Chan J, Fisk NM. Unravelling The Pluripotency Paradox In Fetal and Placental Mesenchymal Stem Cells: Oct-4 Expression and The Case Of The Emperor's New Clothes. *Stem Cells Review and Reports*. (Epub) 2012.

Seppanen EJ, Hodgson SS, Khosrotehrani K, Bou-Gharios G, Fisk NM. Fetal microchimeric cells in a fetus-treats-its-mother paradigm do not contribute to dystrophin production in serially parous mdx females. *Stem Cells Development*. 2012;10;21(15):2809-16.

Tathem K, Harris L, O'Rourke P, Kimble RMN. Dinoprostone vaginal pessary for induction of labour: Safety of use for up to 24hrs. *Australian and New Zealand Journal of Obstetrics and Gynaecology*. 2012;52:582-587.

Zhang ZY, Teoh SH, Hui JH, Fisk NM, Choolani M, Chan JK. The potential of human fetal mesenchymal stem cells for off-the-shelf bone tissue engineering application. *Biomaterials*. 2012;9:33:2656-72.

Perinatal Research Centre



Prof. Paul Colditz
Director, Perinatal Research Centre

Overview

The Perinatal Research Centre (PRC) is a large, multi-disciplinary research group under the direction of Professor Paul Colditz. The research team utilizes the talents of clinicians, scientists, allied health professionals and engineers to advance the health of mothers and babies.

Research within the group includes a number of clinical trials including the Neonatal Electrographic Seizure Trial (NEST) project which commenced in 2012. This multi-centre trial funded by the National Health and Medical Research Council (NHMRC) is investigating the optimal management of neonatal seizures, which remain one of the most common manifestations of neonatal encephalopathy.

PRC continued to publish extensively in high-impact journals throughout 2012. A key paper described innovative research on the short-term dose-response characteristics of two-aminobiotin immediately post insult after hypoxia-ischemia, one of the core research areas of PRC. Researchers within PRC are also contributing to eBrain – a program for children with cerebral palsy and other acquired brain injuries to develop and deliver innovative, cost effective rehabilitation therapies in their home via the national broadband network (NBN).

The use of techniques such as MRI continues to allow novel research projects to be developed and investigated. One such advance is the development of a preterm 'connectome'. In collaboration with Associate Professor Steven Rose of CSIRO, researchers are measuring the structural network of connections within the preterm infant's brain using diffusion MRI and tractography. Upon final completion of the project, researchers world-wide, will have a greater understanding of the structure of the preterm baby's brain. This, married with EEG research, will provide powerful new insights into brain structure and function during development and provide the critical basis for developing strategies to prevent adverse neurodevelopmental outcomes. The Perinatal Research Centre continues to collaborate with national and international research groups including an ongoing collaboration with Qatar University.

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Paul Colditz	MBBS, MBiomedE, DPhil (Oxford), FRACP FRCPCH	Director, Perinatal Research Centre; Deputy Director (Clinical), UQCCR	clinical neonatology, neuroscience, biomedical signal processing
Prof. David McIntyre	MB BS, FRACP	Director, Endocrinology and Obstetric Medicine, Mater Health Services; Head, Mater Clinical School, UQ; PRC Senior Research Fellow	medical disorders of pregnancy, regulation of fetal growth and intensive therapy of type 1 diabetes
Prof. Boualem Boashash	BE/BSc, MSc, Dr Ing (PhD)	Prof. College of Engineering, Qatar University; Signal Processing Group Leader, PRC	time-frequency signal analysis, biomedical signal processing, spectral estimation, signal detection and classification
Prof. Eugene Lumbers	MBBS, MD, DSc	Emeritus Scientia Professor, UNSW; Conjoint Professor, University of Newcastle; Honorary PRC Senior Research Fellow	fetal origins of adult diseases, hypertension, development of control of the circulation, exercise and training, and renal development and function
Prof. Barbara Dodd	PhD, LACST	PRC Senior Honorary Research Fellow	speech and language pathology
Prof. Stephen Taylor	PhD	Prof. Pharmacology, SBMS, UQ; PRC Senior Honorary Research Fellow	the role of the complement system in inflammatory disease
Prof. Chris East	RN, RM, DAppSc, BAppSc, MMSc, Grad Cert Health stud, PhD	PRC Senior Honorary Research Fellow; Prof. Midwifery, Monash University and Southern Health	midwifery
Assoc. Prof. Stephen Rose	BSc, PhD	Principal Research Fellow	development and application of advanced MRI techniques to aid the detection and monitoring of disease processes
Assoc. Prof. Leonie Callaway	MBBS, FRACP, PhD	Staff Specialist, Internal and Obstetric Medicine; Head, Royal Brisbane Clinical School; PRC Senior Honorary Research Fellow	obesity in pregnancy, including the relationship between obesity and hypertensive disorders of pregnancy
Assoc. Prof. Vicki Flenady	MMed Sc (Clin Epid)	PRC Senior Honorary Research Fellow	perinatal researcher at the Centre for Clinical Studies

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof Nigel Barnett	MSc, DPhil (Oxon)	PRC Senior Honorary Research Fellow	the effects of hypoxia/ischaemia in visual development and disease
Dr Michael Colditz	MBBS	PRC Honorary Research Fellow	
Dr Michael Gunn	MBBS	PRC Honorary Research Fellow	
Dr David Holcombe	MBBS	PRC Honorary Research Fellow	
Dr Tim Donovan	MB, BS, MPH, FRACP (Paed) Neonatal Paediatrician, RBWH, Assoc. Prof. UQ	Neonatologist, RBWH; PRC Senior Honorary Research Fellow	improving outcomes for preterm infants particularly in the area of nutrition, growth/body composition and development, ongoing research in the use of telemedicine to provide outreach care of sick infants in regional hospitals, epidemiology of gastroschisis
Dr Aven Lee	BSc, PhD	NHMRC Research Officer	molecular biology and protein biology of the brain
Dr Barbara Lingwood	MSc, PhD	Research Fellow	cardiovascular function in the preterm infant
Dr Ghazem Azemi	PhD	Research Fellow	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Dr Sampsa Vanhatalo	MD, PhD	Visiting Professor, Marie Curie Research Fellowship EU	brain diagnostics and monitoring in early neonatal period
Dr Mark Davies	PhD	Neonatologist; PRC Senior Honorary Research Fellow	improving outcomes for preterm infants, particularly in the area of partial liquid ventilation (PLV) optimisation for use in pre-term infants
Dr Janet Hammill	AM, PhD, MTH, RN	Coordinator	collaboration for alcohol-related developmental disorders
Dr Leith Moxon-Lester	BSc, PhD	Research Fellow	one carbon metabolism and its impact on maternal, foetal and neonatal health, disruption of one carbon metabolism by hypoxia- ischemia (HI) (reduced oxygen and blood supply)
Dr Margo Pritchard	RN, EM, ANNC, BA PhD	Principal Trialist; Honorary Research Consultant, School of Nursing and Midwifery; Honorary Research Consultant, School of Medicine	child health surveillance and development of strategies to sustain outcome, improvements in children born at high-risk of developmental disability
Dr Simon Finnigan	PhD	Senior Research Fellow (NHMRC Career Development Awardee)	brain monitoring techniques to improve outcomes for critically ill patients (e.g. extremely premature babies, stroke patients)
Dr Susan Sullivan	BSc (Hons), PhD	NHMRC Research Fellow	the role of astrocytes in perinatal hypoxia/ischemia
Dr Tracey Bjorkman	BSc, MPhil, PhD	NHMRC Senior Research Officer	hypoxic-ischemic brain injury in preterm and term infants
Dr Marloes Dekker Nitert	MSc, PhD	Senior Research Fellow	metabolism and epigenetics in complications of pregnancy
Dr Yvonne Eiby	BSc (Hons), PhD	NHMRC Research Officer	the cardiovascular system of preterm infants
Dr Xiyong Fan	BSc (Hons), PhD	Research Fellow	hypoxic-ischemic brain injury in preterm and term infants
Dr Layne Wright	PhD	Research Assistant	cardiovascular system of preterm infants in order to reduce hypoxic/ischemic brain injury
Amir Omidvarnia	BSc, MSc	Research Assistant	medical signal processing, image processing, pattern recognition
Mohammed Khlif	BSc, MSc	Research Assistant	digital signal processing, time-frequency signal analysis, biomedical signals, classification systems
Donna Hovey	RN, NNC, BN (Hons I)	Research Assistant	clinical trials

Research staff

Name	Qualifications	Position	Interests/specialties
Karen Taylor	RN, Endorsed Midwife, Neonatal Intensive Care	Research Nurse	clinical trials group supporting 'Enhanced parenting to improve developmental outcomes in preterm infants'
Leisa Brooks	B Nurs (Hons), Endorsed Midwife (Distinction)	Research Assistant	clinical trials group supporting the coordination of the 'Ambulatory Fetal Monitoring Predicts Clinical Outcome' study
Melody Rose	RN, RM, DipHlthScN, BHlthScNursing, GradCetLactMgtInffding, IBCLC	Research Nurse	clinical trials group coordinator of attachment studies
Stephanie Miller	BSc (Hons)	Research assistant/ PhD student	hypoxic-ischemic injury in the term infant

Supervised post-graduate students

Name	Current studies	Research topic
Wixey, J.	Doctorate	Aetiology of low systemic blood flow in the pre-term neonate
Yamada, M.	Doctorate	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxia/ischaemia-injured neonatal brain
Carty, M.	Doctorate	Characterisation of brain injury and the role of neuroinflammation in a rodent model of preterm hypoxia-ischemia.
Gibbons, K.	Doctorate	Development of customised birthweight models
Constantini, K.	Doctorate	The role of C5a in pathophysiology
De Jersey, S.	Doctorate	Are we missing opportunities: Understanding health behaviours associated with overweight in pregnancy
Kim, M.	Doctorate	Cardiac maturation and local renin angiotensin systems in preterm birth in pigs
Cumin, M.	Doctorate	The Premie GRACE (Preterm Growth And body Composition Evaluation) study
Knight, B.	Doctorate	Effects of the DAFNE programme on dietary composition in patients with Type 1 diabetes
Awabdy, D.	Doctorate	AMPA-KA receptor expression after hypoxic-ischaemia in the neonatal piglet
Khelif, M.	Doctorate	Neonatal seizure characterisation: Detection, localisation, study of seizure site synchrony and seizure propagation
Layeghy, S.	Doctorate	Digital signal processing, digital image processing, biomedical signal processing, pattern recognition, time frequency signal analysis
Barrett, H.	Doctorate	Maternal lipids in pregnancy
Omidvarnia, A.	Doctorate	Theoretical development and necessary concepts of nonstationary multivariate connectivity measures for newborn EEG analysis
Odebae, M.	Doctorate	EEG source localisation: Refining a non-invasive method for measuring brain activity
Reinebrant, H.	Doctorate	The central serotonergic system in the preterm neonate following hypoxic-ischemic brain injury
Miller, S.	Doctorate	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Dong, S.	Doctorate	Biomedical signal processing of ECG and EEG using time-frequency analysis in babies exposed to hypoxic/ischaemic episodes
Pannek, K.	Doctorate	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain
Ma, N.	Masters	Developmental changes in expression of KCC2 and NKCC1 in normal and hypoxic ischaemic neonatal piglet brain
Sam, S.	Doctorate	Investigation of the early cardiovascular system function of very premature infants and its relationship to neurodevelopmental outcome
Chuk, R.	Masters	Impact of preterm birth on neurodevelopment – MRI study in very preterm babies at early postnatal age

Supervised post-graduate students

Name	Current studies	Research topic
Caesar, R.	Doctorate	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants
Evans, T.	Doctorate	Improving mother and child attachment patterns following preterm birth: An RCT of prem triple-p
George, J.	Doctorate	Prediction of motor outcomes based on early brain structure
Herd, M.	Doctorate	Efficacy of prem triple p as an intervention to support families of very preterm infants
Schleiger, E.	Doctorate	Predicting outcomes of cerebral ischaemia from pre-discharge EEG and clinical assessment measures
Sheikh, N.	Doctorate	Role of quantitative EEG in the prognostication of cerebral ischaemia: Optimising parameters
Iyer, K.	Doctorate	Predicting clinical outcome in post-natal hypoxia: Modelling and understanding the brain's electrical activity

Awards and achievements

Award	Event	Name
2012 Distinguished Achievement Award for Research	2012 RBWH Healthcare Symposium	Colditz, P.
Best Clinical Science Poster	2012 RBWH Healthcare Symposium	Sheikh, N.
ADIPS Emerging Investigator Award	2012 Australasian Diabetes in Pregnancy Society Annual Scientific Meeting, Gold Coast, Australia.	Barrett, H.L.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Colditz, P.B., Sanders, M., Boyd, R., Pritchard, M., Gray, P. O'Callaghan, M., Slaughter, V., Whittingham, K.	Enhanced parenting capacity to improve developmental outcome in preterm infants	NHMRC	\$996,335	2012-2016
Callaway, L.K., McIntyre, H.D.	A randomised, controlled trial of probiotics to prevent gestational diabetes	NHMRC	\$828,717	2012-2015
Lingwood, B., Wright, I., Lumbers, E., Colditz, P.B.	Supporting heart function in preterm babies	NHMRC	\$670,920	2012-2014
Willmott, L., White, B.P., Gallois, C., Parker, M., Graves, N., Winch, S., (Industry Partner: Callaway, L.)	Futile treatment at the end-of-life: Legal, policy, sociological and economic perspectives	ARC Metro North	\$268,000 \$150,000	2012-2014
Brown, L., McIntyre, H.D.	Northern Territory Diabetes in Pregnancy project	NHMRC	\$1,497,324	2012-2015
Callaway, L., McIntyre, H.D., Dekker Nitert, M., Tobin, J., O'Rourke, P., Wilkinson, S., McSweeney, C.	Probiotics and gestational diabetes mellitus	NHMRC	\$828,718	2012-2014
Donovan, T., Moxon-Lester, L., Pow, D.	Examining creatine excretion as a biomarker of hypoxic-ischaemic brain injury in preterm and term neonates	RBWH Foundation	\$22,000	2012
Callaway, L.	Grant to write the RBWH Research Report	RBWH Private Practice Trust Fund	\$10,000	2012
Barrett, H., Callaway, L., De Jersey, S., Lingwood, B., Dekker Nitert, M., d'Emden, M.	Impact of metformin treatment for gestational diabetes on gestational lipid metabolism and infant, body composition: A prospective observational study	RBWH Foundation	\$40,000	2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Barrett, H.L., Dekker Nitert, M., Callaway, L.K.	Placental Lipases	Pfizer Australia Cardiovascular Lipid Research Grant	\$39,000	2012
Pritchard, M., Hovey, D., Cartwright, D., Scott, J.	A longitudinal study of autism, development and parenting in preterm infants (<29 weeks) from two to four years	RBWH Foundation	\$19,000	2012
Suhrbier, A., Callaway, L.	Serpins and preeclampsia	QIMR-Clinician Collaborative Research Award	\$34,200	2012
Callaway, L., Rice, G., Mitchell, M., Harris, L.	Investigating the link between early pregnancy and obstetric disease	RBWH Foundation	\$38,404	2012
Dekker-Nitert, M.	ADIPS-Novo Nordisk Grant. Gene expression and DNA methylation of diabetes-associated genes in the placenta and offspring neonatal buccal cells from pregnancies complicated by GDM	ADIPS-Novo Nordisk	\$6,600	2012
Sheikh, N., Wong, A., Read, S., Finnigan, S.	Role of quantitative EEG in diagnosis, prognostication and management of cerebral ischaemia	RBWH Foundation	\$30,000	2012
Sheikh, N., Finnigan, S., Wong, A., Read, S.	Quantitative electroencephalography for stroke prognoses	National Stroke Foundation Research Grant	\$20,000	2012
Callaway, L.	2012 Patricia Dukes Fellowship	RBWH Foundation	\$150,000	2012-2014
Bjorkman, S.	Seizures and injury in the newborn hypoxic-ischemic brain	Lions Medical Research Foundation	\$330,000	2011-2014
Whittaker, A., Rose, S., Peng, H.	MRI molecular imaging agents – from fundamental design to in-vivo applications	ARC	\$979,230	2011-2013
Callaway, L.	Exercise as a prescription: Can we prevent adverse outcomes for at risk mothers and babies	RBWHF	\$150,000	2010-2011
Colditz, P.B., Boyd, R., Rose, S., Finnigan, S.	Ischaemia as a causal pathway to cerebral palsy in the preterm baby: Advances in prognostication, treatment and prevention	Cerebral Palsy Institute	\$50,000	2010-2011
Hunt, R., Colditz, P.B., Inder T., Badawi, N., Simmer, K., Liley, H., Osborn, D., Cheong, J., Wright I.	A study of the impact of treating electrographic seizures in term or near-term infants with neonatal encephalopathy	NHMRC	\$1,301,309	2011-2015
Colditz, P.B., Boashash, B.	Design of a computer-automated system for foetal movement classification in the case of high-risk pregnancies using advanced signal processing algorithms	Qatar National Research Fund/ University of Qatar	\$949,282	2010-2012
Colditz, P.B., Boashash, B.	EEG signal classification for newborn outcome prediction after perinatal brain injury	Qatar National Research Fund/ University of Qatar	\$1,013,86	2010-2012
Finnigan, S.	Protecting newborn brains via innovative monitoring technology	NHMRC	\$390,000	2010-2013
Mesbah, M., Colditz P.B., East, C.E., Smeathers, J., Boashash B.	Detection and quantification of general fetal movements from accelerometer measurements using nonstationary signal processing techniques	ARC	\$150,000	2010-2012
Pow, D., Barnett, N.L., Lingwood, B., Bjorkman, S., Buller, K.B., Colditz, P.B.	Astrocyte regulation of ammonia and glutamate in neonatal hypoxia/ischaemia	NHMRC	\$532,629	2010-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Mamun, A., O'Callaghan, M., Najman, J., Alati, R., Williams, G., Clavarino, A., McIntyre, D.H.	Early origins, progression and aetiology of obesity, metabolic syndrome and diabetes: 30 years follow-up study.	NHMRC	\$1,151,67	2010-2014
Borges, K., Taylor, S.M.	Complement activation in experimental epilepsy	NHMRC	\$303,750	2010-2012
Johnson, D., Gobe, G.C., West, M., Brown, L., Vesey, D.	Enhancing erythropoietin therapy in ischaemia-reperfusion injury of heart and kidney	NHMRC	\$348,750	2010-2012
Sullivan, S.	Astrocytes: A possible target to treat hypoxic brain damage	NHMRC	\$285,000	2009-2012
Taylor, S.M., Woodruff, T.M., Callaway, L.K., Finnell, R.H.,	Complement C5a receptors, placental inflammation and reproductive impairment	NHMRC	\$967,750	2009-2013
Bjorkman, S.T.	GABA excitotoxicity neuroprotection and the perinatal brain	NHMRC	\$526,500	2009-2012

Publications

Achong N, Callaway LK, d'Emden M, McIntyre H D, Lust K, Barrett HL. (Epub Oct 29 2012) Insulin requirements in late pregnancy in women with type 1 diabetes mellitus: A retrospective review. *Diabetes Research and Clinical Practice*.

Armfield NR, Donovan T, Bensink ME, Smith AC. The costs and potential savings of telemedicine for acute care neonatal consultation: Preliminary findings. *J Telemed Telecare*. 2012;18(8):429-33.

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Queensland Centre for Gynaecological Cancer



Assoc. Prof. James Nicklin
Clinical Director,
Gynaecological Oncology

Overview

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

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

QCGC Research's focus is on conducting surgical clinical trials in the field of gynaecological cancer but we also perform groundbreaking work outside the conventional clinical trials framework. Additionally we teach and train new researchers (MD and PhD programs) who will then take over as the research elite of tomorrow.

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

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. James Nicklin	MBBS, FRANZCOG, CGO	Clinical Director, Gynaecological Oncology	gynaecological oncology
Prof. Andreas Obermair	MD, FRANZGOG, CGO	Director, Research	gynaecological oncology
Dr Russell Land	MBBS, FRANZCOG, Grad Dip (Palliative Care), CGO	Visiting Medical Officer	gynaecological oncology
Dr Andrea Garrett	MBBS, MSc, FRANZCOG, Dip Pall Care	Visiting Medical Officer; Assistant Director, Gestational Trophoblastic Centre	gynaecological oncology, gestational trophoblastic disease
Dr Andreas Hackethal	MD, PhD	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Dr Donal Brennan	MB, BCh, BAO (Hon), BMedSc (Hon), PhD (Cancer Biology)	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Dr Vivek Arora	FRANZCOG, MRCOG, MD (Obst and Gynae), Dip NB (Obst and Gynae), MNAMS, MBBS	Advanced Trainee, Gynaecological Oncology	gynaecological oncology
Judith Eddy	RN, RM	Gynaecological Oncology Case Manager	oncology nurse specialist
Shona Morrison	BNurs, RN	Gynaecological Oncology Clinical Nurse	gynaecological oncology, gestational trophoblastic disease
Karen Sanday	BSc, HIM	Gynaecological Oncology Data Manager	gynaecological oncology
Trudi Cattley	BAppSc, Grad Cert (Clinical Trial Management)	Clinical Research Manager	clinical trials
Fiona Menzies	BSc, Dip Pharmacy Technician	Clinical Trial Manager	clinical trials
Vanessa Behan	BNurs	Clinical Trial Manager	clinical trials
Dana Middleton	BNurs, GradCert (Clinical Trial Management)	Clinical Trial Manager	clinical trials
Kerry Millgate	BNurs, Grad Dip (Respiratory Sc)	Clinical Trial Coordinator	clinical trials
Anne Hughes	BSc	Clinical Trial Coordinator	clinical trials
Noel Lipscombe	BNurs, Grad Dip (Nursing Management)	Clinical Trial Coordinator	clinical trials
Georgina Gower	BSc	Clinical Trial Coordinator	clinical trials

Supervised post-graduate students

Name	Current studies	Research topic
Tan, Y.	PhD	Australia Cancer Genetics: Motivators and barriers of referral
Noon, L.	PhD	Factors influencing uptake of genetic services

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Obermair, A., Janda, M., Graves, N., Bauer, J.	Post-operative enteral nutrition among patients with ovarian cancer	Cancer Australia	\$476,200	2010-2012
Obermair, A., Janda, M., Forder, P.	Laparoscopic Approach to Carcinoma of the Endometrium (LACE)	Cancer Australia	\$585,250	2010-2012
Obermair, A.	Clinical trial data management	Queensland Cancer Council	\$193,800	2012
Obermair, A., Janda, M., Kondalsamy-Chennakesavan, S.	Effect of prophylactic, risk-reducing gynaecological surgery on survival among patients with a history of breast cancer	RBWH Foundation	\$15,000	2012
Obermair, A., Quinn, M., Francis, G., Armes, J., Janda, M.	A phase II, randomised, clinical trial of Mirena ± metformin ± eight loss intervention in patients with early stage cancer of the endometrium	Lord Mayor's Community Trust	\$20,000	2012
Obermair, A., Janda, M.	LEGS follow-up: Lymphoedema evaluation following gynaecological cancer surgery	QUT	\$99,225	2012

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Rowlands IJ, Lee C, Janda M, Nagle CM, Obermair A, Webb PM, Australian National Endometrial Cancer Study Group. Predicting positive and negative impacts of cancer among long-term endometrial cancer survivors. *Psychooncology*. 2012 Dec 12. [Epub ahead of print]. Impact Factor = 3.339.

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Tan YY, McGaughan J, Ferguson K, Walsh MD, Buchanan DD, Young JP, Webb PM, Obermair A, Spurdle AB on behalf of the ANECS Group. Improving identification of lynch syndrome patients: A comparison of research data with clinical records. *Int J Cancer*. 2012 Dec 6. [Epub ahead of print].

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