

Surgical and Perioperative Services



Surgical and Perioperative Services



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



Sue Cadigan
Nursing Director, Surgical
and Perioperative Services

Overview

Surgical and Perioperative Services incorporates all surgical specialities at the Royal Brisbane and Women's Hospital and includes inpatient, ambulatory and perioperative services. In July 2004 this was expanded to include the Department of Anaesthetics and Perioperative Medicine.

The service line is a busy and challenging area with increasing acuity and complexity. Innovations in technology and new procedures contribute to the challenges in terms of patient delivery and teaching and training.

The service line consists of approximately 220 inpatient beds in eight geographically separate areas, a perioperative service, an anaesthetic service and outpatient services. The perioperative service is responsible for approximately 18,000 surgical procedures per year, performed in 18 operating rooms.

A wide range of elective and emergency speciality surgery and other services are provided, including trauma, burns, organ retrieval, chronic pain management and an acute pain management service. The pre-admission service manages approximately 90 per cent of elective surgical patients for assessment, education and discharge planning by medical, anaesthetic and nursing staff about one week prior to admission.

Key departments

- Department of Anaesthetics and Perioperative Medicine
- Department of Ear Nose and Throat Surgery
- Department of General Surgery
- Department of Neurosurgery
- Department of Ophthalmology
- Department of Oral and Maxillofacial Surgery
- Department of Orthopaedic Surgery
- Department of Plastics and Reconstructive Surgery
- Professor Stuart Pegg Adult Burns Centre
- Trauma Service
- Department of Urology
- Department of Vascular Surgery

Executive and directing staff

- **Dr Barry O'Loughlin**
Executive Director, Surgical
and Perioperative Services;
Director, General Surgery
- **Sue Cadigan**
Nursing Director, Surgical and
Perioperative Services
- **Assoc. Prof. Michael Steyn**
Director, Anaesthetics
and Perioperative Medicine
- **Dr Sharon Kelly**
Director, Ear Nose and Throat Surgery
- **Dr Scott Campbell**
Director, Neurosurgery
- **Dr John Harrison**
Chair, Ophthalmology
- **Prof. Frank Monsour**
Director, Oral and Maxillofacial Surgery
- **Dr Steven Yang**
Director, Orthopaedic Surgery
- **Dr Stuart Bade**
Director, Plastics and Reconstructive Surgery
- **Dr Michael Rudd OAM**
Director, Professor Stuart Pegg Adult Burns Centre
- **Assoc. Prof. Cliff Pollard**
Director, Trauma Service
and Director, Queensland Trauma Registry
- **Dr Nigel Dungleison**
Director, Urology
- **Dr Jason Jenkins**
Director, Vascular Surgery

Department of Anaesthetics and Perioperative Medicine

Overview

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

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

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



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

Research staff

Name	Qualifications	Position	Interests/specialities
Assoc. Prof. Michael Steyn	MBChB, DRCOG, MRCGP, FFARCSI, FANZCA, MSc	Director, Anaesthetics and Perioperative Medicine	anaesthesia, perioperative medicine
Assoc. Prof. Kersi Taraporewalla	MBBS, FANZCA, MClInEd, Cert IV in TAA	Director, Teaching and Research	education, safety
Dr Keith Greenland	MBBS, MD, FANZCA, FHKCA	Senior Staff Specialist	difficult airway management
Heather Reynolds	BA, BHlthSc (Nurs), MN, MAP (Health Care Research), CertTeach, CertCCN, CertAN, MRCNA, PhD Candidate	Clinical Nurse Research Assistant	arterial catheters
Dr Rajesh Brijball	MBChB, FCASA, FANZCA, DipAnaes (SA)	Senior Anaesthetist	snoring, obesity studies, respiratory obstruction
Dr David Belavy	BMedSc, MBBS, FANZCA	Staff Specialist	regional anaesthesia
Dr Michael Edwards	BSc, MBBS, FANZCA, PGDipEcho	Staff Specialist	difficult airway management, vascular surgery, echocardiography
Niall Higgins	RN, GCerteH, GDipeH, PhD Candidate	Manager e-Learning Clinical Skills Development Service	international medical graduate specialists education

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Rudolf Van der Westhuizen	MBBS, FANZCA	Staff Specialist	QPharm drug trials
Dr Phil Cumpton	MBBS (Syd), FANZCA, FCICM, MScIT	Senior Visiting Medical Officer	fibreoptic intubation under general anaesthesia
Dr Rhonda Boyle	MBBS, FANZCA	Senior Staff Specialist	obstetrics
Dr Adrian Chin	MBBS, FANZCA	Staff Specialist	regional anaesthesia
Dr Marc Maguire	MBBS, FANZCA	Staff Specialist	trauma, emergency surgery and blood transfusion
Dr Hau Tan	MBBS, FANZCA	Staff Specialist	difficult airway management
Dr Linda Beckmann	MBBS, FANZCA	Staff Specialist	difficult airway management
Dr Victoria Eley	MBBS, FANZCA	Staff Specialist	difficult airway management, obstetric anaesthesia
Dr Michelle Roets	MBChB, DA, FRCA, FANSCA, MSc	Staff Specialist	equipment design, intra-operative cell salvage
Dr Ben Zugai	MBBS, FANZCA	Staff Specialist	difficult airway management

Supervised postgraduate students

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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Maguire M, Paratz J, Hurn C, Belavy D, Samoilenko S	Thrombelastographic evaluation of a massive transfusion protocol	RBWH Foundation Grant	\$20,000	2011
Zhang Y, Yi X, He J, Pang C, Steyn M	Real-time and self-adaptive stream data analyser for intensive care management	2010 ARC Linkage Projects Scheme	\$115,000 \$115,000 \$115,000	2010-2011 2011-2012 2012-2013
Rickard C, Webster J, Marsh N, Reynolds H	Securing arterial and venous devices effectively in hospitals: The SAVE Trial: A Pilot Study	Griffith Health Institute Project Grant	\$14,000	2011-2013

Publications

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

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

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

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

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

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

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

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

Department of Ear Nose and Throat Surgery



Dr Sharon Kelly
Director, Ear Nose and
Throat Surgery

Overview

The Department of Ear Nose and Throat Surgery continues to promote research particularly in head and neck surgery.

Senior researchers have several papers in press and are involved in ongoing research in relation to early diagnosis tools.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Maurice Stevens	MBBS, FRACS	Consultant Surgeon	head and neck surgery
Dr Robert Hodge	MBBS, FRCS, FRACS	Consultant Surgeon; Senior Lecturer, UQCCR	head and neck surgery

Department of General Surgery

Overview

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

The units provide tertiary level services in most aspects of their specialty and general surgery for the whole of the Royal Brisbane and Women's Hospital and is a major referral area for the state of Queensland.

Research staff

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



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

Research grants

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

Publications

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

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

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

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

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

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

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

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

Department of Neurosurgery



Dr Scott Campbell
Director, Neurosurgery

Overview

The Kenneth G. Jamieson Neurosurgical Unit has provided an integrated neurosurgical service to south east Queensland, northern New South Wales and the Northern Territory since 1956.

The Unit consists of four full-time consultants, one Visiting Medical Officer, one university-appointed Neurosurgeon, five Registrars, four Residents, a specialised neurosurgical theatre and ward nursing staff, Physiotherapist, Occupational Therapist, Speech Pathologist, Dietician, Social Worker and Community Liaison Officer.

The neurosurgical ward has 30 beds.

Ongoing research includes:

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

Research staff

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

Publications

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

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

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

Department of Ophthalmology

Overview

The Department of Ophthalmology is a very busy outpatients department consisting of ten Visiting Medical Officers (VMOs), one part-time Staff Specialist, three Registrars, one Senior Registrar and two Resident Medical Officers (RMOs) in the Eye Casualty Department.

The Outpatient Department specialises in cataract surgery, retinal eye diseases, cornea, glaucoma, uveitis, neuro ophthalmology, orbital and oculo plastics, general ophthalmology and eye casualty.

The Department is involved in teaching undergraduate students, RMOs and Registrars.



Dr John Harrison
Chair, Ophthalmology

Research staff

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

Publications

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

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

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

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

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

Department of Oral and Maxillofacial Surgery



Prof. Frank Monsour
Director, Oral and
Maxillofacial Surgery

Overview

The Department of Oral and Maxillofacial Surgery provides the following specialist clinical services:

- Maxillofacial trauma management
- Maxillofacial cancer surgery
- Maxillofacial reconstructive surgery and rehabilitation
- Oral and maxillofacial implantation and bone anchored prosthetic reconstruction and rehabilitation for oncology cases and wider application.
- Management of temporo-mandibular joint pathology and surgery
- Dentoalveolar surgery (impacted teeth, bony cysts etc)
- Management of non malignant pathology of the jaws (benign)
- Management of salivary gland pathology in the maxillofacial region
- Oral medicine and rehabilitation
- Ocularist (conjoint with ophthalmology services) and facial prosthetics
- Facial deformity surgery

Research interests within the Department cover the whole range of services offered. Specific interests include the establishment of a statewide trauma database with research into facial trauma epidemiology and the development of biomaterials and tissue engineering. The management of head and neck cancer including reconstructive surgery and associated donor site morbidity has become a focus of the Department over recent years. The consultants within the Department are frequently asked to lecture both locally, nationally and internationally.

Collaborations exist between the unit and the following research centres:

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

Research staff

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

Supervised postgraduate students

Name	Current studies	Research topic
Crombie A	Masters of Philosophy	Chemoradiotherapy for oral cavity cancer
Johnson N	Masters of Philosophy	A prospective study of intrabony lesions of the jaws

Awards and achievements

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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Batstone M, Johnston N	A prospective study of intrabony lesions of the jaws	ANZAOMS	\$10,750	2010-2012
Farah C, Batstone M	Oral cavity cancer and precancer	Queensland Government Smart Futures Program	\$1,500,000	2011-2014
Monsour FNT, Borgna S, Rahmel B	Road trauma-related head and neck injuries and outcomes -State two: A prospective study	RBWH Private Practice Trust Fund	\$50,000	2010-2014
Monsour FNT, Borgna S	Statewide maxillofacial surgery clinical audit and research database	Information Technology Services	TBC	2010-2011
Warnke PH	Multi-layered tissue engineering and nano-technology for stem cell delivery in degenerative diseases	Clem Jones Estate	\$3 million	2011-2015

Publications

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

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

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

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

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

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

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

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

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

Publications

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

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

Department of Orthopaedic Surgery

Overview

The Department of Orthopaedic Surgery deals with all facets of orthopaedics. It comprises an orthopaedic outpatients clinic and two dedicated orthopaedic wards, as well as beds in the infectious diseases ward.

Unique facilities and services include:

- Tertiary referral service to Queensland and New South Wales
- The Centre for Trauma Management
- Reconstructive surgery and revision prosthetic surgery
- An orthopaedic service for haemophiliacs
- Subspeciality services, including hand surgery, upper limb surgery, knee surgery, spinal surgery, scoliosis surgery, foot surgery and a musculoskeletal service
- Professorial and associate positions with The University of Queensland
- A complex total joint clinic
- A limb reconstruction clinic
- International trainee fellowship program management sponsored by Smith and Nephew.

Innovative clinical or management practises include:

- Expertise in use of Ilizarov method for trauma and elective surgery
- Fit for surgery initiative for elective surgery patients
- The Orthopaedic Transitional Care Program for streamlining of elective arthroplasty services
- Australian Orthopedic Association National Joint Replacement Registry participation
- Orthowave database of total joint surgery
- Scoliosis database management for RBWH and Royal Children's Hospital
- Autologous cartilage implantation
- Orthopaedic elective case coordination and pre-admission assessment clinic
- Orthopaedic trauma case coordination
- Limb reconstruction service for RBWH and RCH
- Limb reconstruction coordinator role at RCH.

Key areas of interest for research in orthopaedics include fracture healing, joint replacement, venous thromboembolic events, tissue oxygenation, skin grafting, joint replacement, scoliosis, trauma, spinal trauma, fracture assessment and classification.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Steven Yang	MBChB, FRACS	Director, Orthopaedic Surgery	orthopaedics, spine
Prof. Kevin Tetsworth	MD, FRACS	Professor, Orthopaedic Surgery	orthopaedics, limb reconstruction
Dr Trevor Gervais	MBBS	Staff Surgeon	orthopaedics, upper limb
Dr Geoffrey Donald	MBBS, FRACS (Orth)	Director, Orthopaedic Surgery, Royal Children's Hospital	orthopaedics, limb reconstruction, paediatrics
Dr Brett Halliday	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, limb reconstruction
Dr Paul Pincus	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, limb reconstruction
Dr Michael Holt	MBBS, FRACS (Orth)	Staff Surgeon	orthopaedics
Dr Peter McCombe	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine
Prof. Ian McPhee	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis
Dr John Tuffley	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis, paediatrics
Dr Robert Labrom	MBBS, FRACS (Orth)	Visiting Medical Officer	orthopaedics, spine, scoliosis, paediatrics

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Dr Steven Yang
Director, Orthopaedic Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
Dr David Bade	MBBS	Registrar	orthopaedics
Dr Shailendra Dass	MBBS	Registrar	orthopaedics
Dr Christopher Bell	MBBS	Senior House Officer	orthopaedics
Dr Hamish Gray	MBBS	Registrar	orthopaedics
Dr Brett Collins	MBBS	Registrar	orthopaedics
Dr Tony O'Neill	MBBS	Senior House Officer	orthopaedics
Dr Rohan Brunello	MBBS	Registrar	orthopaedics
Dr Daniel Bopf	MBBS	Senior House Officer	orthopaedics
Dr Catherine McDougall	MBBS	Senior House Officer	orthopaedics

Department of Plastics and Reconstructive Surgery

Overview

The Department of Plastic and Reconstructive Surgery at the Royal Brisbane and Women's Hospital provides services across the breadth of the speciality, including:

- Skin cancer management
- Head and neck cancer management, including both extirpative and reconstructive surgery for advanced cutaneous and metastatic malignancy, salivary gland tumours and oropharyngeal malignancy
- Hand surgery
- Lower limb reconstruction
- Breast reconstruction
- Orthognathic surgery and secondary cleft lip and palate surgery
- Craniomaxillofacial trauma
- Burn surgery
- Microsurgery

Particular areas of research include the management of skin cancer and head and neck malignancy, where the Department plays an integral role in the multidisciplinary Head and Neck Clinic.



Dr Stuart Bade
Director, Plastics and Reconstructive Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Stuart Bade	MBBS, FRACS	Director, Plastics and Reconstructive Surgery	head and neck surgery, microsurgery
Dr David Campbell	MBBS, FRACS	Visiting Medical Officer	breast reconstruction, laser
Dr Eddie Cheng	MBBS, FRACS	Visiting Medical Officer	head and neck surgery, breast reconstruction
Dr William Cockburn	MBBS, FRACS	Visiting Medical Officer	head and neck surgery
Dr Raymond Goh	MBBS, FRACS	Visiting Medical Officer	orthognathic surgery
Dr Vedella Hinckley	MBBS, FRACS	Visiting Medical Officer	head and neck surgery
Dr Atul Ingle	MBBS, FRACS	Staff Specialist	burns
Dr Shireen Senewiratne	MBBS, FRACS	Visiting Medical Officer	hand surgery, lower limb reconstruction, microsurgery
Dr Robert Waiwright	MBBS, FRACS	Visiting Medical Officer	skin cancer
Dr Matthew Potter	MBBS	Fellow	
Dr Andrew Castley	MBBS	Registrar	
Dr Ajay Chahaun	MBBS	Registrar	
Dr Marcia Mickelburgh	MBBS	Registrar	
Dr Amy O'Connor	MBBS	Registrar	
Dr Matthew Peters	MBBS	Registrar	
Dr Michael Wagels	MBBS	Registrar	

Awards and achievements

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

Professor Stuart Pegg Adult Burns Centre

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Dr Michael Rudd OAM

Director, Professor Stuart
Pegg Adult Burns Centre

Overview

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

Research staff

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

Supervised postgraduate students

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

Achievements and awards

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

Research grants

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

Publications

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

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

Trauma Service



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

Overview

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

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

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

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

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

Research staff

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

Research staff

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

Achievements and awards

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

Publications

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

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

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

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

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

Department of Urology



Dr Nigel Dunglison
Director, Urology

Overview

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

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

Research staff

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

Supervised postgraduate students

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

Achievements and awards

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

Research grants

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

Research grants

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

Publications

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

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

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

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

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

Kote-Jarai Z, Olama AA, Giles GG, Severi G, Schleutker J, Weischer M, Campa D, Riboli E, Key T, Gronberg H, Hunter DJ, Kraft P, Thun MJ, Ingles S, Chanock S, Albanes D, Hayes RB, Neal DE, Hamdy FC, Donovan JL, Pharoah P, Schumacher F, Henderson BE, Stanford JL, Ostrander EA, Sorensen KD, Dörk T, Andriole G, Dickinson JL, Cybulski C, Lubinski J, Spurdle A, Clements JA, Chambers S, Aitken J, Gardiner RA, Thibodeau SN, Schaid D, John EM, Maier C, Vogel W, Cooney KA, Park JY, Cannon-Albright L, Brenner H, Habuchi T, Zhang HW, Lu YJ, Kaneva R, Muir K, Benlloch S, Leongamornlert DA, Saunders EJ, Tymrakiewicz M, Mahmud N, Guy M, O'Brien LT, Wilkinson RA, Hall AL, Sawyer EJ, Dadaev T, Morrison J, Dearnaley DP, Horwich A, Huddart RA, Khoo VS, Parker CC, Van As N, Woodhouse CJ, Thompson A, Christmas T, Ogden C, Cooper CS, Lophatananon A, Southey MC, Hopper JL, English DR, Wahlfors T, Tammela TL, Klarskov P, Nordestgaard BG, Røder MA, Tybjærg-Hansen A, Bojesen SE, Travis R, Canzian F, Kaaks R, Wiklund F, Aly M, Lindstrom S, Diver WR, Gapstur S, Stern MC, Corral R, Virtamo J, Cox A, Haiman CA, Le Marchand L, Fitzgerald L, Kolb S, Kwon EM, Karyadi DM, Orntoft TF, Borre M, Meyer A, Serth J, Yeager M, Berndt SI, Marthick JR, Patterson B, Wokolorczyk D, Batra J, Lose F, McDonnell SK, Joshi AD, Shahabi A, Rinckleb AE, Ray A, Sellers TA, Lin HY, Stephenson RA, Farnham J, Muller H, Rothenbacher D, Tsuchiya N, Narita S, Cao GW, Slavov C, Mitev V; The UK Genetic Prostate Cancer Study Collaborators/British Association of Urological Surgeons' Section of Oncology; The UK ProtecT Study Collaborators, The Australian Prostate Cancer BioResource; The PRACTICAL Consortium, Easton DF, Eeles RA. Seven prostate cancer susceptibility loci identified by a multi-stage genome-wide association study. *Nat Genet*. 2011;43(8):785-91.

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

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

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

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

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

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

Publications

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

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

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

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

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

Department of Vascular Surgery

Overview

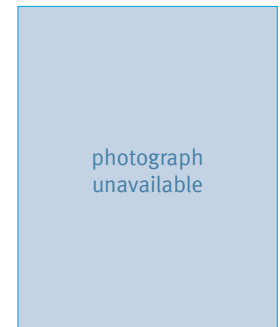
During 2011, under the supervision of Professor Philip Walker, in cooperation with The University of Queensland (UQ), RBWH and with the assistance of a number of postgraduate research students, the Department of Vascular Surgery participated in a variety of research projects in the area of vascular disease.

Principal areas of research interest were aortic disease and peripheral arterial disease (PAD). Research ranged from basic science investigation into the aetiology of aortic aneurysmal disease and investigation of fatigue and blood flow in PAD through to studies of devices for the endoluminal management of aortic pathology. Professor Walker is a chief investigator in the NHMRC National Centre of Research Excellence to Improve Management of Peripheral Arterial Disease (<http://ncrc-pad.registry.org.au/about-ncrc-pad>) and through this centre has significant research collaborations with Professor Jon Golledge's group at The James Cook University Vascular Biology Unit, Dr Chris Askew at the Queensland University of Technology, Professor Rob Fitridge at the University of Adelaide, Professor Bronwyn Kingwell at the Baker IDI Heart and Diabetes Research Institute in Melbourne and Professor Malcolm West's group at TPCH. These collaborations resulted in significant grant funding success in 2011, highlighted by NHMRC, BUPA Health Foundation, RBWH Foundation and TPCH Foundation funding for research into abdominal aortic aneurysms.

Research is carried out in the clinical research area in the Department of Vascular Surgery at RBWH and in The University of Queensland Centre for Clinical Research (UQCCR). Dr Michel Hoenig completed his PhD at The University of Queensland with his thesis titled 'Studies in cholesterol metabolism: Relationship to statin efficacy, obesity and lipoprotein fractions.'

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

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



Dr Jason Jenkins
Director, Vascular Surgery

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Jason Jenkins	MBBS, FRACS (Vasc)	Director, Vascular Surgery	Investigator in the ENGAGE: The Endurant Stent Graft Natural Selection Post market Registry
Prof. Philip Walker	MBBS, FRACS (Vasc)	Professor of Surgery and Head of Discipline, UQ School of Medicine; Discipline of Surgery, Royal Brisbane Clinical School and Centre for Clinical Research; Consultant Vascular Surgeon, Department of Vascular Surgery, RBWH	vascular surgery, aetiology and management of aortic aneurysmal disease, exercise physiology in peripheral arterial disease, vascular imaging, medical therapy for the vascular patient and the management of venous thromboembolic disease
Rachael Nowak	BMed, Pharm, Biotech (Hons)	Research Officer, UQ School of Medicine, Discipline of Surgery	Queensland Coordinator for NHMRC CRE for PAD projects: Telmisartan in the management of abdominal aortic aneurysm (TEDY), Fenofibrate in the management of abdominal aortic aneurysm (FAME), the role of differences in circulating factors in the pathogenesis of vascular disease
Dr Julie Jenkins	RN	Clinical Nurse Consultant, Vascular Surgery	coordinator of vascular surgery index case, databases coordinator for ENGAGE: The Endurant Stent Graft Natural Selection Post market Registry

Research staff

Name	Qualifications	Position	Interests/specialities
Dr Allan Kruger	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Investigator in ENGAGE: The endurant stent graft natural selection post-market registry
Dr Nick Boyne	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Principal Investigator in ENGAGE: The endurant stent graft natural selection post-market registry
Dr Wallace Foster	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	
Dr Maged Aziz	MBBS, FRACS (Vasc)	Consultant Vascular Surgeon	Investigator in ENGAGE: The endurant stent graft natural selection post-market Registry

Supervised postgraduate students

Name	Current studies	Research topic
Hoenig M	PhD	Studies in cholesterol metabolism: Relationship to statin efficacy, obesity and lipoprotein fractions
McRae P	MPhil	Identifying interdisciplinary care needs in older surgical patients
Iyer V	MBBS (Hons)	Assessing the morphological features of ruptured and intact abdominal aortic aneurysms using computed tomography angiography: evaluating the role of intraluminal thrombus
Haigh K	MBBS (Hons)	Barriers to the diagnosis and screening of peripheral arterial disease by general practitioners
Stefanovic B	PhD	Muscle fatigue in peripheral arterial disease: the roles of blood flow and muscle metabolism

Research grants

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

Research grants

Investigators	Project title	Granting body	Amount awarded	Years of funding
Golledge J, Kingwell B, Norman P, Tonkin A, Fitridge R, Reid C, Walker PJ, Hankey G, Fletcher J, Nelson M	National Centre of Research Excellence to improve management of Peripheral Arterial Disease	NHMRC Centre for Research Excellence APP1000967	\$2,499,250	2010-2014
Golledge J, Kingwell B, Ahimastos A, Walker PJ, Norman P, Tonkin A, Reid C, Bourke B, Quigley F	National Small AAA Trial	BUPA Health Foundation Award	\$250,000	2011-2013
Golledge J, Fitridge R, Norman P, Walker PJ, Herbert B	International Alliance to find and use biomarkers to develop diagnostic, prognostic and management pathways for abdominal aortic aneurysms	Queensland Government Smart Futures Fund National and International Research Alliances Program	\$2,510,498	2009-2012
Boyne N, Walker PJ, Jenkins J, Kruger A	ENGAGE: The Endurant Stent Graft Natural Selection Post market Registry	Medtronic Bakken Research Center	€1700 per patient	2009-ongoing
Golledge J, Norman P, Walker PJ, Rush C, Dalman R, Ott J	Association between obesity, TGFB, thrombospondin and small abdominal aortic aneurysm progression	NHMRC 540404	\$ 487,500	2009-2013
Fitridge R, Boulton M, Golledge J, Thompson M, Madden G, Barnes M, Walker PJ (A)	Evaluating a decision-making model for EVAR	NHMRC 565335	\$1,036,925	2009-2013

Publications

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

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

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

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

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

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

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

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