

Surgical and Perioperative Services



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



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 Andrew Lomas
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 Sarah Watts
Acting Director, Orthopaedic Surgery

Dr Stuart Bade
Director, Plastics and Reconstructive Surgery

Dr Michael Rudd OAM
Director, Professor Stuart Pegg Adult Burns Centre

Assoc. Prof. Daryl Wall AM
Director, Trauma Service

Dr Nigel Duglison
Director, Urology

Dr Jason Jenkins
Director, Vascular Surgery



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

Overview

Our vision continues in our progression to be a department of academic and clinical excellence. Significant achievements continue to be made within our focus for research and quality. Individual staff achievements are as follows:

- » Dr Paul Gray's PhD was conferred in March 2012 with his thesis 'Phantom Skin Pain: Neuropathic Pain Following Burn Injury – An Examination of Incidence of Treatments.'
- » Niall Higgins has completed his PhD on an adult education project concerning foreign trained doctors.
- » Our part-time Research Nurse, Heather Reynolds, continues her PhD studies, nearing completion of data collection for her project investigating methods to secure peripheral arterial catheters.
- » Dr Marc Maguire continues his project 'Thrombelastographic evaluation of a massive transfusion protocol', funded by a \$20,000 RBWH Foundation grant.
- » Dr David Belavy, with Dr Adrian Chin, coordinate RBWH's involvement in the International Registry of Regional Anaesthesia (IRORA).
- » Dr Rajesh Brijball progresses with his central neuraxial studies and obesity research.
- » Dr Kersi Taraporewalla works with courses at the RBWH Skills Development Centre and continues with the education of foreign trained doctors.
- » Dr Victoria Eley has finished recruiting for her project of evaluating the antenatal assessment of morbidly obese parturients and continues to work with Associate Professor Diann Eley of The University of Queensland (UQ), Dr Kate Donovan, Dr Rajesh Brijball and Dr Emma Walters.
- » Dr Victoria Eley has also finished recruiting for her project of a randomised controlled trial developing a patient information video for caesarean section patients. Her co-investigators are Dr Tisha Searles, Dr Kate Donovan and Dr Emma Walters.
- » Dr Eley has also commenced a retrospective pilot study to determine the failure rate of epidural top-ups in obese patients with data collection current.
- » Dr Louisa Heard has completed an audit of our anaesthetic practice for oesophagectomies.
- » Dr Genevieve Goulding continues her role as Deputy Director (Safety), performing ongoing audits to facilitate safe anaesthetic practice.
- » Dr Linda Beckmann working with Dr Hau Tan, coordinates the RBWH Airway Workshop Course which is nationally recognised and is run four times a year. The workshop combines teaching the technical aspects of airway skills with decision making and human factors. Funds generated by the workshop are used for equipment and airway research.
- » Dr Martin Culwick runs the ANZCA web-based incident monitoring program 'WebAirs' as part of best anaesthetic practice.

We continue to perform collaborative research with QPharm, Australian e-Health Research Centre/CSIRO ICT Centre, Queensland University of Technology (QUT), UQ, Griffith University and Victoria University.

Our future is progressing with a strengthening academic, clinical and research base to our department.

Research staff

Name	Qualifications	Position	Interests/specialties
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
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 Staff Specialist	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

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Rudolf Van der Westhuizen	MBBS, FANZCA	Staff Specialist	QPharm drug trials
Dr Phil Cumptson	MBBS, FANZCA, FCICM, MScIT	Senior Visiting Medical Officer	fiberoptic 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
Niall Higgins	RN, GCerteH, GDipeH, PhD Candidate	Manager, e-Learning, Clinical Skills Development Service	international medical graduate specialists education
Dr Keith Greenland	MBBS, MD, FANZCA, FHKCA	Senior Staff Specialist	difficult airway management
Dr Kylie Hall	BSc (Hons), MBBS (Hons), FANZCA	Staff Specialist	ocular related injuries and intraocular complications
Dr Astley Cottrell	FANZCA	Visiting Medical Officer	novel bradykinin receptor, B2 antagonist use in the peri-operative setting

Supervised post-graduate students

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

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
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	2011-2012 2012-2013
Sherlock, S., Webb, R., Bourke, A., Reid, D., Dickie, G., Acton, C., King, D., Lutz, K.	Hyperbaric oxygen for treatment of radiation induced xerostomia (HOTRIX)	RBWH Research Committee	\$30,000	2012
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

Greenland K. Difficult airway management in an ambulatory surgical centre. *Curr Opin Anaesth.* 2012;25:659-64.

Greenland K, Segal R, Acott C, Edwards M, Teoh W, Bradley W. Observations on the assessment and optimal use of videolaryngoscopes. *Anaesth Intens Care.* 2012;40:622-30.

Hall K. Can I go bungee jumping doc? *J Aust Soc Aerospace Med.* 2012;7:26-27.

Hall K. Therapeutic intraocular gas: when is it safe to fly? *J Aust Soc Aerospace Med.* 2012;7:28-30.

Senaratne KT, Cottrell AM, Prentice RL. Successful perioperative management of a patient with CI esterase inhibitor deficiency with a novel bradykinin receptor B2 antagonist. *Anaesth Intens Care.* 2012;40:523-526.

Department of Ear Nose and Throat Surgery



Dr Andrew Lomas
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/ specialties
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



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

Overview

The Department of General Surgery is composed of five units:

- » Breast/endocrine
- » Laparoscopic/hepato-biliary-pancreatic
- » Colorectal
- » Upper GI
- » 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 Queensland.

Research staff

Name	Qualifications	Position	Interests/specialties
Owen Ung	MBBS, FRACS	Director, Centre for Breast Health, Head Breast Endocrine Unit	breast and endocrine surgery

Publications

Richards AD, Lakhani SR, James DT, Ung OA. Intraoperative imprint cytology for breast cancer sentinel nodes: Is it worth it? 2012;1445-2197.06293.x

Kahn C, Simonella L, Sywak M, Boyages S, Ung O, O'Connell D. Postsurgical pathology reporting of thyroid cancer in New South Wales, Australia. *Thyroid*. 2012;22(6):604-10.

Kahn C, Simonella L, Sywak M, Boyages S, Ung O, O'Connell D. Pathways to the diagnosis of thyroid cancer in New South Wales: A population based cross-sectional study. *Cancer Causes Control*. 2012;23:35-44.

Hansen CJ, Kenny L, Lakhani SR, Ung O, Keller J, Tripcony L, Cheuk R. Tubular breast carcinoma: An argument against treatment de-escalation. *Journal of Medical Imaging and Radiation Oncology*, 2012;56(1):116-122.

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 (VMO), one university-appointed neurosurgeon, six registrars (three accredited advanced trainees and three PHOs), four residents, specialised neurosurgical theatre and ward nursing staff, physiotherapists, occupational therapists, speech pathologists, dietician, a social worker and a community liaison officer.

The unit has a 30-bed ward and is actively involved in the training of advanced neurosurgical trainees up to and including the FRACS exam.

Ongoing research includes:

- » Glioma surgical aspirate: A viable source of tumour tissue for experimental research (recently published) – Brain Cancer Research Group (Boyd, A., Campbell, S., Tollessen, G., Winter, C., Jeffree, R.L., Findlay, W., Johnson, D.)
- » Supply of clinical tissue and data for translational research – Breast Cancer Research Group (Lakani, S., Jeffree, R.L.)
- » Patient recruitment and clinical input into translational research – Evaluation of tumour segmentation (Jeffree, R.L., Winter, C.), Biomedical Imaging Group, Australian e-Health Research Centre, CSIRO
- » Cancer Epidemiology Centre – Family study of gliomas (Severi, G., Jeffree, R.L.) Associate Investigator
- » Australian genetics and clinical outcomes of glioma (Jeffree, R.L.) Advisory Committee member
- » CATNON Phase III international clinical trial (Jeffree, R.L.) Member of Australian Trial Committee
- » Remote telemedicine in neurosurgery private practice (Johnson, D.)
- » Advanced neuro-stimulation techniques for chronic lower back pain (Johnson, D.)
- » Blood brain barrier dysfunction in TBI and SAH using SPECT and DCE – MRI (Winter, C.)
- » S100B and VEGF in hypoxic brain injury (Winter, C.)
- » Computational fluid dynamics in intracranial aneurysms (Russell, J., Winter, C.)
- » An audit of ALA fluorescence guided surgery for high-grade glioma (Colditz, M., Jeffree, R.L.)
- » The pathway to diagnosis of intradural spinal tumours (Oztel, M., Jeffree, R.L.)
- » A pilot study of the role of valproate in the treatment of high-grade glioma (Fay, M., Martin, J., Winter, C., Thomas, P., Jeffree, R.L., Robertson, T., Rose, S., Buchan, C.)

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Scott Campbell	FRACS	Director, Neurosurgery	neurosurgery
Dr Craig Winter	FRACS	Staff Specialist	neurosurgery
Dr Gert Tollessen	FRACS	Staff Specialist	neurosurgery
Dr Lindy Jeffree	FRACS	Staff Specialist	neurosurgery
Dr Wendy Findlay	FRACS	Staff Specialist/University	neurosurgery
Dr David Johnson	FRACS	Visiting Medical Officer	neurosurgery
Dr Jonathan Ashish	MBBS	Senior Registrar	neurosurgery
Dr Johnny Efendy	MBBS	Senior Registrar	neurosurgery
Dr Ruwan Wijemunige	MBBS	Senior Registrar	neurosurgery
Dr Patrick Pearce	MBBS	Registrar	neurosurgery
Dr Holly Bernardi	MBBS	Registrar	neurosurgery
Dr Kirsty Hamilton	MBBS	Registrar	neurosurgery

Supervised post-graduate students

Name	Current studies	Research topic
Russell, J.	Masters (Science)	Computational fluid dynamics in intracranial aneurysms

Department of Ophthalmology



Dr John Harrison
Chair, 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.

Research staff

Name	Qualifications	Position	Interests/specialties
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

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

Collaborations exist between the department and The University of Queensland (UQ) and The University of Queensland Centre for Clinical Research (UQCCR).

Research staff

Name	Qualifications	Position	Interests/specialties
Prof. Frank Monsour	AM, RFD, FRACDS, PhD, MDSc, BDS (Hons)	Director, Oral and Maxillofacial Surgery	maxillofacial trauma and 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)	Senior Staff Consultant	head and neck oncology surgery and reconstruction
Dr Alan Gordon-Macleod	BDS (Lond), FDS, RCS (Ed)	Staff Consultant	dentoalveolar surgery and 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 and reconstructive surgery
Assoc. Prof. Neil Savage	MDSc, PhD, FFOP(RCPA), FICD	Oral Pathologist/Consultant	oral Medicine and pathology
Prof. Patrick Warnke	DrMedHabil (MD, PhD Germany) DrMedDent (DMD Germany)	Fellow	tissue engineering and reconstructive surgery, trauma and infection
Dr George Chu	MBBS, BDS	Registrar	
Dr Geoff Findlay	MBBS, BDS	Registrar	
Dr Rachel (Jen-Ti) Hsieh	MBBS, BDS	Registrar	

Supervised post-graduate 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

Research grants

Investigators	Research 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
Warnke, P.H.	Multi-layered tissue engineering and nano-technology for stem cell delivery in degenerative diseases	Clem Jones Estate	\$3 million	2011-2015

Publications

Alamein MA, Stephens S, Liu Q, Skabo S, Warnke PH. Mass production of nanofibrous extracellular matrix with controlled 3D morphology for large-scale soft tissue regeneration. *Tissue Eng Part C Methods*. 2012 Dec 12.

Butt A, Mahoney M, Savage NW. The impact of computer display performance on the quality of digital radiographs: a review. *Aust Dent J*. 2012;Mar;57 Suppl 1:16-23.

Crombie AK, Farah C, Tripcony L, Dickie G, Batstone MD. Primary chemoradiotherapy for oral cavity squamous cell carcinoma. *Oral Oncol*. 2012;Oct;48(10):1014-8.

Hsu E, Crombie A, To P, Marquart L, Batstone MD. Manual reduction of mandibular fractures before internal fixation leads to shorter operative duration and equivalent outcomes when compared with reduction with intermaxillary fixation. *J Oral Maxillofac Surg*. 2012 Jul;70(7):1622-6.

Johnson NR, Batstone MD, Savage NW. Management and recurrence of keratocystic odontogenic tumor: A systematic review. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2012 Jul 6.

Lynham A, Tuckett J, Warnke P. Maxillofacial trauma. *Aust Fam Physician*. 2012;Apr;41(4):172-80.

Warnke PH, Lott AJ, Sherry E, Wiltfang J, Podschun R. The ongoing battle against multi-resistant strains: In-vitro inhibition of hospital-acquired MRSA, VRE, pseudomonas, ESBL E. coli and Klebsiella species in the presence of plant-derived antiseptic oils. *J Craniomaxillofac Surg*. 2012; Nov 29.

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Dr Sarah Watts
Acting Director
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 (UQ)
- » 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 (RCH)
- » 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.

Department of Clinical Research Projects in the the Department of Orthopaedic Surgery include:

- » Systematic review: Percutaneous anterior humeral Plating (Hohmann, E., Mehadrakumar, M., Miller, D., Tetsworth, K.)
- » Case-match controlled series comparing percutaneous anterior humeral plating to: (a) IM nails, (b) ORIF and (c) closed treatment (Davies, G., Mehadrakumar, M., Hohmann, E., Navalgund, V., Sivanathlu, M., Tetsworth, K.)
- » Using a medial gastrocnemius rotational myoplasty to reconstruct post-traumatic defects of the patellar tendon and extensor mechanism (Wansbrough, G., Senewiratne, S., Tetsworth, K.)
- » Acute correction of very large rotational deformities (Thorsell, J., Tetsworth, K.)
- » Reconstruction of chronic malunion/non-union of tibial plateau fractures (Birchely, A., Tetsworth, K.)
- » Clinical investigations into the nature of intra-articular fractures:
 - Distribution of intra-articular fractures – the relationship of joint architecture to the observed pattern of injury (dome vs. vault) (Steer, R., Tetsworth, K.)
 - Opology and morphology of the articular surfaces of the talar dome (Banic, G., Tetsworth, K.)
 - Mapping osteochondral injuries of the talar dome associated with pilon fractures (Russell, G., Tetsworth, F., Tetsworth, K.)
- » Staged reconstruction of chronic septic native joints using functional antibiotic spacers (Tetsworth, K.)
- » Failed treatment of orthopaedic infections: Root cause analysis (Zirald, I., Tetsworth, K.)
- » Management of open pelvis fractures and the associated traumatic wounds (Wullschlegger, M., Brown, J., Tetsworth, K.)
- » Internal fixation of true head-splitting fractures of the proximal humerus (Rapisarda, A., Tetsworth, K.)

Overview

- » Audit of acute orthopaedic clinical activity at a major metropolitan tertiary hospital: The burden of orthopaedic infection (D'Costa, E., Tetsworth, K.)
- » Arthroscopic assisted reduction and percutaneous internal fixation of selected displaced calcaneus fractures (Sivakumar, B., Navalgund, V., Wong, P., Tetsworth, K.)
- » Precision step-cut technique for acute femoral shortening and lengthening (Cox, J., Tetsworth, K.)
- » Survey of the distribution of deformity types in clinical practice: The prevalence of rotational deformity (Ram, R., Bhattarai, I., Tetsworth, K.)
- » The burden of minor trauma cases in Queensland (Dallow, N., Lang, J., Lang, A., Tetsworth, K.)
- » CROSSBAT (Harris, I., Mittal, R.)

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Sarah Watts	MBBS, FRACS	Acting Director, Orthopaedic Surgery	orthopaedics, limb reconstruction
Prof. Kevin Tetsworth	MD, FRACS	Professor, Orthopaedic Surgery	orthopaedics, limb reconstruction
Dr Steven Yanng	MBChB, FRACS	Visiting Medical Officer, Orthopaedic Surgery	orthopaedics, spine
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
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

Publications

Hohmann E, Bryant A, Tetsworth K. Anterior pelvic soft tissue thickness influences acetabular cup positioning with imageless navigation. *J Arthroplasty*. 2012;27:945-952.

Hohmann E, Hansen T, Tetsworth K. Treatment of Neer type II fractures of the lateral clavicle using distal radius locking plates combined with TightRope augmentation of the coraco-clavicular ligaments. *Arch Orth Trauma Surg*. 2012;132:1415-1421.

Lowe M, Meta M, Tetsworth K. Irreducible lateral dislocation of the patella with rotation. *J Surgical Case Reports*. 2012;3:10.

Department of Plastics and Reconstructive Surgery



Dr Stuart Bade
Director, Plastics and Reconstructive Surgery

Overview

The Department of Plastic and Reconstructive Surgery at 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.

Research staff

Name	Qualifications	Position	Interests/specialties
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	

Professor Stuart Pegg Adult Burns Centre



Dr Michael Rudd OAM
Director, Professor Stuart Pegg Adult Burns Centre

Overview

Research within the Professor Stuart Pegg Adult Burns Centre occurs as part of The University of Queensland (UQ) Burns, Trauma and Critical Care Research Centre (BTCCRC).

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Michael Rudd	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, MMed Sci	Staff Specialist	physiologic response to burns/injury and its modulation
Dr Jason Miller	MBBS,FRACS	Staff Specialist	melanoma, sarcoma
Dr Jason Brown	MBBS, FRACS, BDS (Hons)	Staff Specialist	wound healing
Dr Keith Towsey	MBBS,FRACS	Staff Specialist	trauma, burns
Michelle Spermon	BOty	MSc Student	scar maturation modulation
Anita Plaza	BPhty	Senior Physiotherapist	exercise and metabolism following burn injuries
Brooke Hoskin	BPhty	Physiotherapist	investigation of modalities for improving compliance with physiotherapy
Sharon Forbes	BSc, GradDip Nut Diet	Dietician	energy and nutritional requirements during recovery from burns
Teresa Matthews	AO	Database Manager	reducing hospital stay and rural support outpatient burns care
Allison Hill	RN	Registered Nurse	burn management
Lauren Moody	RN	Audit Manager	audit
Troy Davey	RN	Audit Manager	audit

Supervised post-graduate students

Name	Current studies	Research topic
Spermon, M.	Masters	Scar maturation modulation

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Roberts, J., Wallis, S., Rudd, M., Adnan, S.	Dosing of meropenem and piperacillin/tazobactam in critically ill patients with indwelling surgical drains	RBWH Foundation	\$20,000	2012
Muller, M., Paratz, J., Roberts, J., Dhanani, J., Towsey, K., Younger, J.	Can adrenergic blockade improve outcome in burns?	RBWH	\$35,000	2010-2016
Paratz, J., Druery, M., Plaza, A., Cohen, J., Muller, M., Stockton, K., Younger, J.	IMPACT – Improving psychological health and decreasing cardiovascular risk in patients post burns	RBWH Foundation	\$40,000	2011-2012

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Paratz, J., Paul, S., Younger, J., Cohen, J., Muller, M.	Are burns patients at increased risk of cardiovascular disease?	RBWH Foundation	\$40,000	2012
Brown, J., Muller, M., Miller, J., Towsey, K.	Measurement of skin donor site healing, with clinical assessment, high resolution ultra-sound and transepidermal water loss	RBWH Foundation	\$28,061	2012-2013

Publications

Paratz J, Stockton K, Plaza A, Muller M, Boots R. Intensive exercise after thermal injury improves physical, functional, and psychological outcomes. *J Trauma Acute Care Surg.* 2012;73:186-94.

Patel B, Paratz J, Mallett A, Lipman J, Rudd M, Muller M, Paterson D, Lipman J, Roberts J. Characteristics of Bloodstream infections in burn patients: An 11-year retrospective study. *Burns.* 2012;38:685-90.

Patel B, Paratz J, See N, Muller M, Rudd M, Paterson D, Briscoe S, Ungerer J, McWhinney B, Lipman J, Roberts J. Therapeutic drug monitoring of beta-lactam antibiotics in burns patients - A one year prospective study. *Ther Drug Monit.* 2012;34:160-4.

Stockton K, Davis M, Brown M, Boots R, Paratz J. Physiological responses to maximal exercise testing and the Modified Incremental Shuttle Walk Test in adults following thermal injury: a pilot study. *J Burn Care Res.* 2012;33:252-58.

Trauma Service



Assoc. Prof. Daryl Wall AM
Director, Trauma Service

Overview

The RBWH Trauma Service is staffed by nursing graduates who work as Trauma Nurse Coordinators

Assistant Director of Nursing: Dale Dally-Watkins.

Surgeons: Associate Professor Cliff Pollard FRACS (previous Director); Associate Professor Daryl Wall AM, FRACS (Director, May 2012-current); Dr Keith Towsey FRACS; Dr Richard Bryant FRACS; Dr Michael Muller FRACS (Deputy Director); Dr Kong Goh (Rehabilitation Physician); Dr Fran Williamson FACEM (Emergency Physician); Dr Trent Lipp FACEM; Dr Nicholas Toalster MBBS; Dr Martin Wullschleger MBBS, MD, PhD, FMH, EBSQ; Dr Wim Ronsmans; Olivia Zheng (Statistician and Data Manager); Lisa Whittaker (Administration Coordinator).

All staff are committed to:

- » Training
- » Teaching
- » Research
- » Professional development
- » System advancement
- » Transformational negotiations.

Clinical research in 2012 was undertaken in the following aspects of trauma:

- » Queensland Trauma Registry
- » RBWH Trauma Registry
- » Cardiac Trauma Outcomes
- » Abdominal wall reconstruction after trauma
- » Management of compound and severe pelvic fractures
- » Management of extreme surgical emergencies in trauma (red blanket)
- » Mucourmycosis infections
- » Eye injuries
- » Missed injuries
- » Ruptured diaphragms
- » Inter hospital transfers PhD study
- » Resuscitation
- » Long term follow up of trauma
- » Preventable injuries
- » State wide trauma network.

Research staff

Name	Qualifications	Position	Interests/specialties
Assoc. Prof. Daryl Wall AM	AM FRACS	Current director, Trauma Service	trauma
Assoc. Prof. Cliff Pollard	FRACS	Former Director, Trauma Service	trauma
Dr Keith Towsey	FRACS	Staff Specialist	trauma
Dr Richard Bryant	FRACS	Staff Specialist	trauma
Dr Michael Muller	FRACS	Deputy Director	trauma
Dr Kong Goh		Staff Specialist	trauma
Dr Fran Williamson	FACEM	Staff Specialist	trauma
Dr Trent Lipp	FACEM	Trainee	trauma
Dr Nicholas Toalster	MBBS	Resident	trauma
Dr Martin Wullschleger	MBBS, MD, PhD FMH, EBSQ	Trauma Registrar	trauma system, abdomino-pelvic trauma, soft tissue/fracture healing
Dr Wim Ronsmans		Staff Specialist	trauma

Supervised post-graduate students

Name	Current studies	Research topic
Ronsmans, W.	MPhil	Tyranny of distance: Delays in transfer for trauma patients
Manoharan, B.	MPhil	Microenvironment analysis of soft tissue wound healing with microdialysis

Awards and achievements

Award	Event	Name
G.S.A. Medical	2012 General Surgeons Australia Annual Scientific Congress	Wall, D.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Wullschleger, M.E., Roberts, J., Manoharan, B., Parker, T., Upton, Z., Lipman, J.	Micro-environment analysis of traumatic wounds using microdialysis to determine molecular and biochemical markers and antibiotic concentrations	RBWH Foundation	\$36,000	2012

Publications

Reichert JC, Epari DR, Wullschleger ME, Berner A, Saifzadeh S, Noeth U, Dickinson IC, Schuetz MA, Hutmacher DW. Bone tissue engineering: the reconstruction of critical sized segmental bone defects in the ovine tibia. *Orthopade*. 2012;41(4):280-7.

Sugiyama S, Wullschleger ME, Wilson K, Williams R, Goss B. Reliability of clinical assessment for assessing spinal fusion: an experimental sheep study. *Spine (Phila Pa 1976)*. 2012;37(9):763-8.

Department of Urology



Dr Nigel Dungalison
Director, Urology

Overview

Research in the Department of Urology in 2012 focussed largely on prostate cancer and was dominated by novel approaches to early detection and the randomised study of open and robotic prostatectomy. This important trial continued to progress satisfactorily through most of the year, albeit with a number of procedural delays due to multiple reasons.

The early detection research embraced a slight change in direction to include other approaches to improve further the good results obtained with mRNA profiling of ejaculate. Particular attention was directed to metabolic profiling with examination of multiple parameters concurrently through NMR spectroscopy of ejaculate and post-ejaculate urine via an active collaboration with Dr Horst Schirra at The University of Queensland's Centre for Advanced Imaging at St Lucia. The generous support of the RBWH Foundation is acknowledged for this work.

One of the highlights of the year was the awarding of an MPhil to Troy Gianduzzo by The University of Queensland for his excellent thesis 'Laser robotic-assisted laparoscopic prostatectomy'.

In terms of other publications, these included a number related to developments in robotic prostatectomy with one reporting the relationship of expertise in laparoscopic prostatectomy translated to robotic prostatectomy, another describing the methodology employed in the open and robotic prostatectomy trial and several others reporting on continuing refinements to the procedure of robotic prostatectomy.

The close ongoing association of departmental members with demographic and psycho-oncological research with colleagues at Cancer Council Queensland and Griffith University continues to be evident in the research projects and publications included in this report.

Research staff

Name	Qualifications	Position	Interests/specialties
Dr Nigel Dungalison	MB BS, FRACS	Director, Urology; Visiting Medical Officer	clinical trials
Dr Renee Stirling	BSc, PhD	Postdoctoral Research Officer	molecular biology
Dr Nigel Bennett	BSc, PhD	Postdoctoral Research Officer	data recording
Clement Chow	BSc	Research Assistant	molecular biology
Robyn Medcraft	RN	Research Coordinator	clinical Trials
Maddie Fowler		Research Assistant	clinical Trials
Prof. Frank Gardiner	MB BS, MD, FRCS, FRACS	University Medical Officer	tumour markers, clinical trials
Prof. Martin Lavin	BSc (Hons), PhD, FRAMI	University Academic Researcher	molecular biology
Dr Troy Gianduzzo	MB BS, MPhil, FRACS	Visiting Medical Officer	clinical trials
Dr Geoff Coughlin	MB BS, FRACS	Visiting Medical Officer	clinical trials
Dr John Yaxley	MB BS, FRACS	Visiting Medical Officer	clinical trials

Supervised post-graduate students

Name	Current studies	Research topic
Roberts, M.	MPhil	Early detection of prostate cancer
Gianduzzo, T.	MPhil	Laser robotic-assisted laparoscopic prostatectomy

Awards and achievements

Award	Event	Name
Inaugural Frank Gardiner Prize for Best Presentation	Northern Section of Urology Society of Australia and New Zealand ASM	Desai, D.
Masters of Philosophy (Medicine)		Gianduzzo, T.
RACS Medal and Certificate of Outstanding Service to Fellowship, Service to Royal Australasian College of Surgeons		Gardiner, R.A.

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Gardiner, R., Lavin, M	Molecular profiling for prostate cancer prognosis	RBWH Foundation	\$40,000	2012
Chambers, S.K., Smith, D., Berry, M., Lepore, S., Foley, E., Occhipinti, S., Frydenberg, M., Gardiner, R.A.	A randomised trial of a mindfulness intervention for men with advanced prostate cancer	NHMRC	\$706,243	2012-2014
Hodges, P.W., Ashton-Miller, J.A., Christantinou, C.E., Gardiner, R.A., Coughlin, G.D., Sapsford, R.	Urinary continence and incontinence in men: New insights through new technologies	ARC	\$285,000	2010-2013
Gardiner, R.A., Chambers, S.K., Dungleison, N., Yaxley, J., Occhipinti, S., Carter, R., Williams, S., Lavin, M.F.	A randomised trial of robotic and open prostatectomy: Integrated multidisciplinary studies to guide patient management	Cancer Council Queensland Strategic Research Partnership Grant	\$1.25 million	2009-2014
Gianduzzo, T., Gardiner, R.A., Samarutunga, M.L.T.H., Chabert C.	The feasibility of a 532 nm laser surgery for unclamped partial nephrectomy and radical prostatectomy	American Medical Systems Research	\$355,000	2011-2016

Publications

Al Olama AA, Kote-Jarai Z, Schumacher FR, Wiklund F, Berndt SI, Benlloch S, Giles GG, Severi G, Neal DE, Hamdy FC, Donovan JL, Hunter DJ, Henderson BE, Thun MJ, Gaziano M, Giovannucci EL, Siddiq A, Travis RC, Cox DG, Canzian F, Riboli E, Key TJ, Andriole G, Albanes D, Hayes RB, Schleutker J, Auvinen A, Tammela TLJ, Weischer M, Stanford JL, Ostrander EA, Cybulski C, Lubinski J, Thibodeau SN, LSchaid DJ, Sorensen KD, Batra J, Clements JA, Chambers S, Aitken J, Robert A, Gardiner RA, Christiane Maier C, Vogel W, Dörk T, Brenner H, Habuchi T, Ingles S, John EM, Dickinson JL, Cannon-Albright L, Teixeira MR, Kaneva R, Zhang H-W, Lu Y-J, Park JY, Cooney KA, Muir KR, Leongamornlert DA, Saunders E, Tymrakiewicz M, Mahmud N, Guy M, Govindasami K, 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, Dudderidge T, Ogden C, Cooper CS, Lophatonanon A, Southey ML, Hopper JL, English D, Virtamo J, Marchand LL, Campa D, Kaaks R, Lindstrom S, Diver WR, Gapstur S, Yeager M, Cox A, Stern MC, Corral R, Aly M, Isaacs W, Adolfsson J, Xu JF, Zheng SL, Wahlfors T, Taari K, Kujala P, Klarskov P, Nordestgaard BG, Røder MA, Frikke-Schmidt R, Bojesen SE, FitzGerald LM, Kolb S, Kwon EM, Karyadi DM, Orntoft TF, Borre M, Rinckleb A, Luedeke M, Herkommer K, Meyer A, Serth J, Marthick JR, Patterson B, Wokolorczyk D, Spurdle A, Lose F, McDonnell SK, Joshi AD, Shahabi A, Pinto P, Santos J, Ray A, Sellers TA, Lin H-Y, Stephenson RA, Teerlink C, Muller H, Rothenbacher D, Tsuchiya N, Narita S, Cao G-W, 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, Chanock S, Gronberg H, Haiman CA, Kraft P, Easton DF, Eeles RA. A meta-analysis of genome-wide association studies to identify prostate cancer susceptibility loci associated with aggressive and non-aggressive disease. *Hum Mol Genet.* 2013;22(2):408-415. [Epub 2012 Oct 12].

Baade PD, Gardiner RA, Ferguson M, Youlden DR, Aitken JF, Yaxley J, Chambers SK. Factors associated with diagnostic and treatment intervals for prostate cancer in Queensland, Australia: A large cohort study. *Cancer Causes and Control.* 2012;23:625-34.

Baade PD, Youlden DR, Gardiner RA, Ferguson M, Aitken JF, Yaxley J, Chambers SK. Factors associated with treatment received by men diagnosed with prostate cancer in Queensland, Australia. *BJU Int.* 2012 Sep 27. doi: 10.1111/j.1464-410X.2012.011533.x. [Epub ahead of print].

Chambers SK, Ferguson M, Gardiner RA, Aitken J, Occhipinti S. Intervening to improve psychological outcomes for men with prostate cancer. *Psycho-oncology.* 2012; DOI: 10.1002/pon.3095

Coelho RF, Chauhan S, Guglielmetti GB, Orvieto MA, Sivaraman A, Palmer KJ, Rocco B, Coughlin G, Hassan RE, Dall'oglio MF, Patel VR. Does the presence of median lobe affect outcomes of robot-assisted laparoscopic radical prostatectomy? *J Endourol.* 2012;26(3):264-70.

Coelho RF, Chauhan S, Sivaraman A, Palmer KJ, Orvieto MA, Rocco B, Coughlin G, Patel VR. Modified technique of robotic-assisted simple prostatectomy: advantages of a vesico-urethral anastomosis. *BJU Int.* 2012;109(3):426-33.

Gardiner RA. Re: Prostate cancer incidence in Australia correlates inversely with solar radiation. *BJU Int.* 2012; 109 Suppl 3:71

Gardiner RA, Yaxley J, Baade PD. Integrating disparate snippets of information in an approach to PSA testing in Australia and New Zealand. *BJU Int.* 2012; 110 Suppl 4:35-7.

Gardiner RA, Yaxley J, Coughlin G, Dungleison N, Occhipinti S, Younie S, Carter R, Williams S, Medcraft RJ, Bennett N, Lavin MF, Chambers SK. A randomised Trial of Robotic and Open Prostatectomy. *BMC Cancer.* 2012; 12:189 doi:10.1186/1471-2407-12-189.

Lose F, Lawrence MG, Srinivasan S, O'Mara T, Marquart L, Chambers S, Gardiner RA, Aitken JF, Spurdle AB, Batra J, Clements JA, the Australian Prostate Cancer BioResource. The kallikrein 14 gene is down-regulated by androgen receptor signalling and harbours genetic variation that is associated with prostate tumour aggressiveness. *Biol Chem.* 2012;Apr 1;393(5):403-412. doi: 10.1515/hsz-2011-0268.

Publications

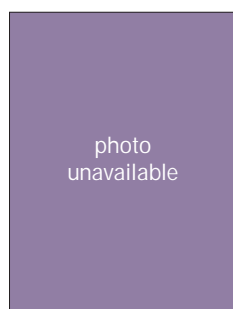
Lose F, Srinivasan S, O'Mara T, Marquart L, Chambers S, Gardiner RA, Aitken JF. The Australian Prostate Cancer BioResource, Spurdle AB, Batra J, Clements, JA. Genetic Association of the KLK4 Locus with Risk of Prostate Cancer. PLOS ONE. 2012;7(9):e44520. Epub 2012 Sep 6.

McDowell ME, Occhipinti S, Gardiner RA, Chambers SK. The early detection of prostate cancer in Australian men: the influence of family history. BJUI. 2012;109(suppl 3):64-70.

Newton RU, Taaffe DR, Spry N, Cormie P, Chambers SK, Gardiner RA, Shum D, Joseph D, Galvão DA. Can exercise ameliorate treatment toxicity during the initial phase of testosterone suppression in prostate cancer patients? Is this more effective than delayed rehabilitation and what is the time course and persistence of benefits? BMC Cancer. 2012;12(1):432.

Patterson IYL, Robertus LM, Gwynne RA, Gardiner RA. Genitourinary tuberculosis in Australia and New Zealand. BJUI. 2012;109 (suppl 3):27-30.

Wolanski P, Chabert C, Jones L, Mullavey T, Walsh S, Gianduzzo T. Preliminary results of robotic-assisted laparoscopic radical prostatectomy following fellowship training and experience in laparoscopic radical prostatectomy. BJU Int. 2012;110;Suppl 4:64-70.



Dr Jason Jenkins
Director, Vascular Surgery

Overview

During 2012, under the supervision of Professor Philip Walker, in cooperation with The University of Queensland (UQ), RBWH and with the assistance of a number of postgraduate research students, the Department of Vascular Surgery participated in a variety of research projects in the area of vascular disease.

Principal areas of research interest were aortic disease and peripheral arterial disease (PAD). Research ranged from basic science investigation into the aetiology of aortic aneurysmal disease and investigation of fatigue and blood flow in PAD, through to studies of devices for the endoluminal management of aortic pathology.

Professor Walker is a chief investigator in the NHMRC National Centre of Research Excellence to Improve Management of Peripheral Arterial Disease (<http://ncre-pad.registry.org.au/about-ncre-pad>) and through this centre has significant research collaborations with Professor Jon Gollidge's group at The James Cook University Vascular Biology Unit, Dr Chris Askew at the University of the Sunshine Coast, 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 Kate Haigh 'Barriers to the diagnosis and screening of peripheral arterial disease by General Practitioners' and Dr Vikram Iyer 'Assessing the morphological features of ruptured and intact abdominal aortic aneurysms using computed tomography angiography: Evaluating the role of intraluminal thrombus' completed their MBBS Honours degrees at The University of Queensland.

A number of publications reporting the department members' work were concluded, highlighted by Dr Michel Hoenig's report of 'Experience with thoracic aortic stent-grafting at the Royal Brisbane and Women's Hospital: Outcomes from the first decade' in the World Journal of Cardiovascular Surgery 2012;2(3): 29-39. The department had important presentations at the Australian and New Zealand Society of Vascular Surgery's annual national scientific meeting and at a number of international scientific meetings.

Research staff

Name	Qualifications	Position	Interests/specialties
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, Surgery and Head, Discipline of Surgery, UQ School of Medicine 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
Brad Stefanovic	BSc (Sport and Exercise Science)	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
Gillian Jagger	RN	Research Officer, UQ School of Medicine, Discipline of Surgery	Queensland Coordinator for NHMRC trial Evaluating a decision-making model for EVAR
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/specialties
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 post-graduate students

Name	Current studies	Research topic
Stefanovic, B.	PhD	Muscle fatigue in peripheral arterial disease: The roles of blood flow and muscle metabolism
McRae, P.	MPhil	Identifying interdisciplinary care needs in older surgical patients
Haigh, K.	MBBS (Hons)	Barriers to the diagnosis and screening of peripheral arterial disease by General Practitioners
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
Chen, B.	MBBS (Hons)	Outcomes of small AAA under surveillance. Need for surgery, growth rates and cardiovascular events and correlations with differential white blood cell counts
Foot, W.	MBBS (Hons)	Vascular surgery training in Australasia. Experience and competence in open surgical procedures in the endovascular era

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Golledge, J., Walker, P.J., Ahimastos, A., Muller, R.	Fenofibrate in the management of Abdominal aortic aneurysm (FAME)	NHMRC APP1020955	\$439,735	2012-2014
Golledge, J., Norman, P., Rush, C., Walker, P.J.	Interaction between parathyroid hormone, sclerostin and the wingless pathway in abdominal aortic aneurysm	NHMRC APP1021416	\$698,300	2012-2016
Golledge, J., Norman, P., Walker, P.J., Ahimastos, A., Dalman, R.	TElmisartan in the management of abdominal aortic aneurysm (TEDY)	NHMRC APP1022752	\$1,105,893	2012-2016
Mudge, A., Walker, P.J., McRae, P., Donovan, Reade, M., Gordon, Peel, N.	An interdisciplinary model to enhance care of surgical elders	Australian Centre for Health Services Innovation (AusHSI) stimulus grants	\$75,000	2012
Golledge, J., Rush, C., Walker, P.J., Fitridge, R., Muller, R.	The role of the clotting cascade in aortic aneurysm and associated cardiovascular events	NHMRC 1003707	\$619,911	2011-2015
Golledge, J., Kingwell, B., Ahimastos, A., Walker, P., Norman, P., Tonkin, A., Reid, C., Bourke, B., Quigley, F.	National Small Abdominal Aortic Aneurysm Trial	BUPA Health Foundation Award	\$250,000	2011-2013
Askew, C.D., Golledge, J., Walker, P.J.	Muscle angiogenesis and exercise in peripheral arterial disease	NHMRC CRE in Peripheral Arterial Disease	\$30,000	2011-2013

Research grants

Investigators	Research title	Granting body	Amount awarded	Years of funding
Askew, C.D., Golledge, J., Walker, P.J.	Muscle angiogenesis and exercise in peripheral arterial disease	QUT Institute of Health and Biomedical Innovation	\$12,000	2011-2013
Golledge, J., Kingwell, B., Norman, P., Tonkin, A., Fitridge, R., Reid, C., Walker, P.J., Hankey, G., Fletcher, J., Nelson, M.	National Centre of Research Excellence to improve management of Peripheral Arterial Diseases	NHMRC Centre for Research Excellence APP1000967	\$2,499,250	2010-2014
Boyne, N., Walker, P.J., Jenkins, J., Kruger, A.	ENGAGEL The Endurant Stent Graft Natural Selection Post-market Registry	Medtronic Bakken Research Center	€1700 per patient	2009-ongoing
Golledge, J., Norman, P., Walker, P.J., Rush, C., Dalman, R., Ott, J.	Association between obesity, TGF β , 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, P.J. (AI)	Evaluating a decision-making model for EVAR	NHMRC 565335	\$1,036,925	2009-2013
McRae, P., Mudge, A., Walker, P.J., Peel, N.	Meeting Interdisciplinary care needs in older surgical patients	RBWH and RBWH Foundation	\$72,243	2012
West, M., Dettrick, A., Nataatmadja, M., Russell, F., Walker, P.J.	Inhibition of inflammatory activity and metalloproteinase-2 (MMP2) activation limits extracellular matrix degeneration and prevents acute aortic dissection	TPCH FOUNDATION MS2011-35	\$100,000	2012

Publications

Askew CD, Stefanovic B, Russell FD, Green S, Walker PJ. Post-revascularisation exercise training for peripheral arterial disease. Proceedings 17th Annual Congress of the ECSS, Bruges, Belgium. July 4-7, 2012. Abstract-ID: 534.

Bhatt DL, Paré G, Eikelboom JW, Simonsen KL, Emison ES, Fox KA, Steg PG, Montalescot G, Bhakta N, Hacke W, Flather MD, Mak KH, Cacoub P, Creager MA, Berger PB, Steinhilb SR, Murugesan G, Mehta SR, Kottke-Marchant K, Lincoff AM, Topol EJ; on behalf of the CHARISMA Investigators. The relationship between CYP2C19 polymorphisms and ischaemic and bleeding outcomes in stable outpatients: the CHARISMA genetics study. *Eur Heart J*. 2012 Sep;33(17):2143-2150.

Biros E, Walker PJ, Nataatmadja M, West M, Golledge J. Down regulation of transforming growth factor, beta receptor 2 and Notch signalling pathway in human abdominal aortic aneurysm. *Atherosclerosis*. 2012; 221(2):383-6.

Cronin O, Bradshaw B, Iyer V, Walker PJ, Golledge J. The association of visceral adiposity with abdominal aortic aneurysm presence and growth. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS87.

Haigh K, Bingley J, Golledge J, Walker PJ. Barriers to screening and diagnosis of peripheral arterial disease by general practitioners. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS124.

Hoening MR, Jenkins J, Boyne N, Kruger A, Walker PJ. Experience with thoracic aortic stent-grafting at the Royal Brisbane and Women's Hospital: Outcomes from the first decade. *World Journal of Cardiovascular Surgery*. 2012;2(3):29-39.

Ho KKF, Al-Timimi A, Walker PJ. A case of septic superficial thrombophlebitis of varicose veins associated with *Yersinia enterocolitica* and *Propionibacterium*. *EJVES Extra* 2012;24:e16-e17.

Iyer V, Jenkins J, Bradshaw B, Cronin O, Walker PJ, Golledge J. Thrombus volume is similar in patients with intact and ruptured abdominal aortic aneurysms. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS94.

Krishna SM, Seto SW, Moxon J, Rush C, Walker PJ, Norman PE, Golledge J. Fenofibrate increased high density lipoprotein and sphingosine 1 phosphate concentrations limiting abdominal aortic aneurysm progression in a mouse model. *Am J Pathol*. 2012; 181: 706-718.

McRae P, Mudge A, Walker P, Peel N. Understanding the interdisciplinary care needs of older surgical patients. *Australasian Journal On Ageing* 2012;31:75-76.

Publications

Rai D, Wisniowski B, Bradshaw B, Velu R, Tosenovsky P, Quigley F, Walker PJ, Golledge J. Abdominal aortic aneurysm calcification and thrombus volume are not associated with outcome following endovascular abdominal aortic aneurysm repair. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS73.

Stefanovic B, Russell F, Walker PJ, Green S, Askew C. Revascularisation in peripheral arterial disease: Effect on leg blood flow, walking tolerance and calf muscle function. ANZSVS Vascular 2012 Conference Abstracts. Abstract VS93.

Stefanovic B, Russell FD, Walker PJ, Green S, Askew CD. Revascularisation in Peripheral Arterial Disease (PAD): Effect on leg blood flow, walking tolerance and calf muscle function (Poster). Proceedings 17th Annual Congress of the ECSS, Bruges, Belgium. July 4-7, 2012. Abstract-ID: 544.

Wang Y, Krishna S, Walker PJ, Norman P, Golledge J. Transforming growth factor- β and abdominal aortic aneurysms. Cardiovasc Pathol. 2013;22(2):126-32.

