

Critical Care and Clinical Support Services



Dr Robert Webb
Acting Executive Director
Critical Care and Clinical
Support Services



Kerri McLeod
Nursing Director
Critical Care and Clinical
Support Services

Overview

Critical Care and Clinical Support Services undertakes a variety of research, including clinical trial and laboratory research.

We have a commitment to undergraduate and postgraduate teaching and research and have developed strong links with The University of Queensland (UQ) and Queensland University of Technology (QUT).

Critical Care and Clinical Support Services actively participates in nursing evidence-based practice activities and undertakes nursing research. The nursing staff of the service line are currently involved in a number of nursing research projects, including multidisciplinary research activities.

Key departments

Directorate including:

- » Admissions and Trust Office, Confirmation Centre
- » Centralised Specialist Outpatient Services/ Private Practice Specialist Suite
- » Department of Emergency Medicine
- » Department of Intensive Care Medicine
- » Hospital in the Nursing Home
- » Hyperbaric Medicine Service
- » Professor Tess Cramond Multidisciplinary Pain Centre
- » Skin Integrity Service

Executive and directing staff

Dr Robert Webb
Acting Executive Director, Critical Care and
Clinical Support Services

Kerri McLeod
Nursing Director, Critical Care and Clinical
Support Services

Dr John Burke
A/Director, Department of Emergency Medicine

Dr Kenneth Thistlethwaite
A/Director, Hyperbaric Medicine Service

Prof. Jeffrey Lipman
Director, Department of Intensive Care Medicine

Prof. Julia Fleming
Director, Professor Tess Cramond
Multidisciplinary Pain Centre

Department of Emergency Medicine



Anthony Bell
Director
Emergency Medicine

Overview

About this service: The Department of Emergency Medicine provides a specialist service for the emergency health care needs of the community 24 hours a day, 365 days a year. The specialist team is comprised of a group of dedicated doctors, nurses, social workers, physiotherapist, and other allied health staff working around the clock. We are one of the busiest Emergency Departments in the country, caring for over 70,000 patients per year including interhospital transfers and retrievals from burns and major trauma across the state. The department is a pivotal interface between the community and the hospital.

Highlights of 2014: Our research interests are as diverse as the patients we see. Our committed focus on acute cardiac disease continues to be one of our research strengths. A/Prof Louise Cullen has led research into the assessment and risk stratification of the ubiquitous chest pain patient. Teaming up with Cardiology at the Royal Brisbane and Women's Hospital as well as collaborators nationally and internationally, Louise has presented her research at multiple meetings including the World Congress of Cardiology in 2014. The diagnosis of headaches especially subarachnoid haemorrhage is one of our other major research interests. A/Prof Kevin Chu has led a research team across the state completing a prospective snapshot of patients presenting with a headache across Queensland in September 2014. His research was presented at the International Conference on Emergency Medicine 2014.

Benefits for clinical practice: The translation of research findings into clinical practice is paramount. Our research has enabled us to accelerate the assessment of the chest pain patient with a two-hour troponin instead of the previous 8-12 hour standard. This accelerated protocol has safely shortened the patient's length of stay in the Emergency Department. There are benefits to patient throughput in contemporary congested Emergency Departments worldwide. The cost savings are enormous.

Uncertainty in the diagnostic approach to the undifferentiated patient is not uncommon. The need for a computed head scan and a lumbar puncture with/without spectrophotometry for detecting subarachnoid haemorrhage is a classic example. The condition is an infrequent cause of headaches but has catastrophic consequences if missed. Our research into headaches and subarachnoid haemorrhage will contribute to evidence-based practice in the use of diagnostic tests.



Research staff

Name	Qualifications	Position	Interests/specialities
A/Prof Anthony Bell	MBBS, FACEM, MBA, MPH, FRACMA	Director, Emergency Medicine	Medical administration
Dr Dan Bodnar	MBBS FACEM	Staff Specialist	Pre hospital care
Prof. Anthony Brown	MBChB, FRCP, FRCS (ED), FACEM, FCEM	Chair, Emergency Medicine	Anaphylaxis
A/Prof Kevin Chu	MBBS, GCBisostat, MS FACEM	Director, Emergency Medicine Research	Subarachnoid haemorrhage
A/Prof Louise Cullen	MBBS, PhD, FACEM	Staff Specialist	Acute cardiac disease
A/Prof. Jaimi Greenslade	BPsych (Hons), PhD. MSc (Stats)	Research Fellow	Acute cardiac disease
Tracey Hawkins	BN, Grad Dip Nursing. (Critical Care and Emergency)	Clinical Nurse (Research)	Acute coronary syndrome
Tegwen Howell	BEcon, MEd	Research Officer	Health economics
Dr Catherine Hurn	MBBS, FACEM	Staff Specialist	Massive transfusion
Dr William Lukin	MBBS, FACEM	Staff Specialist	Palliative care
Kate Parker	BN	Clinical Nurse (Research)	Perception of patients presenting with self harm
Dr Duncan McAuley	MBChB, FACEM	Staff Specialist	Pneumothorax
Dr Ibrahim Mahmoud	MBBS, MSc, MPH, PhD	Research Manager	Epidemiology
Dr Philip Richardson	MBChB, LLB, FACEM	Staff Specialist	End-of-life
Dr Julian Williams	MBBS, FACEM	Staff Specialist	Sepsis
Dr Frances Williamson	MBBS, FACEM, CCPU	Staff Specialist	Trauma

Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Flaws, D.	PhD UQ (2014-2016)	Acute coronary syndrome risk stratification

Research grants

Investigators <small>*RBWH staff; bold, this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Chu, K.* , Furyk, J., Keijzers, G., Kinneer, F., Windsor, C.	Diagnostic workup for suspected subarachnoid haemorrhage	QLD Emergency Medicine Research Foundation, Program	\$268,000 (2013-2015)
Cullen, L.* , Parsonage, W., Greenslade, J.*, Mueller, C.	Loss of Consciousness Study: Basel Syncope Evaluation Study	QLD Emergency Medicine Research Foundation, Project	\$32,100 (2014)
Cullen, L.* , Parsonage, W., Than, M., Pemberton, C.	Relationship between patient delay distribution and 12-month health outcomes	National Heart Foundation of Australia, Project	\$98,436 (2013-2014)
Cullen, L.*	Validating the MACS rule.	QLD Emergency Medicine Research Foundation, Project	\$27,800 (2014)
Cullen, L.*	The Noel Stevenson Research Fellowship	QLD Emergency Medicine Research Foundation, Investigator Development	\$225,000 (2012-2015)
Cullen, L.*	The accelerated chest pain risk evaluation (ACRE) project	The Centre for Healthcare Improvement Clinical Services Redesign sector of Queensland Health, Project	\$999,043 (2013-2015)

Department of Intensive Care Medicine



Prof. Jeffrey Lipman
Director
Intensive Care Medicine

Overview

About this service: The Department of Intensive Care Medicine provides a high standard of patient care based on a background of sound research outcomes. The unit is recognised as leaders in the management of sepsis, burns and infection through its collaborations with its national and international research partners. The Department develops and participates in a variety of research projects, from investigator-initiated to large NHMRC funded studies.

Highlights of 2014: 2014 was a very successful year, resulting in over 80 published articles, numerous successful grant applications and academic success for a number of our researchers. The focus on sepsis and infection in Intensive Care dictated the work flow for the DICM research team. As part of our body of work on antibiotics in the Intensive Care setting, we saw the completion of the BLING II (Beta-Lactam Infusion Group) Study, which was an NHMRC-funded study. The SMARRT Study, another NHMRC-funded study, saw continued sound recruitment and highlighted the evolving work practices of the DICM Research Office. This office now provides project management skills to international studies whilst continuing to support in-house investigator initiated studies from concept to completion. Continued collaboration between The University of Queensland, The George Institute, QIMR and a host of local, national and international partners marked a turning point in the development of the ICU research team at the RBWH.

Benefits for clinical practice: Our current focus is to improve antibiotic delivery and use in ICU. It is hoped that our work will eventually result in a reduction of hospital length of stay and cost and burden of health on the community at large, an improvement in the management of sepsis and patient outcomes and the continued evaluation and improvement of outcomes for burns patients.



Research staff

Name	Qualifications	Position	Interests/specialities
Prof. Jeffrey Lipman	MBBCh, DA (SA), FFA (SA), FFA (Crit Care), FCICM, MD	Director, Department of Intensive Care Medicine	management in intensive care, resuscitation of burns and pharmacokinetics of antibiotic dosage
Assoc. Prof. Robert Boots	MBBS (Hons), FRACP, FCICM, PhD, GradDipClinEpi, MMedSci, MHealthAdmin, IS	Deputy Director, Department of Intensive Care Medicine	clinical epidemiology, management of burns and prevention of ventilator associated pneumonia
Prof. Michael Reade	MBBS, BSc, DPhil, MPH, PGCertAME, DIMCRCSEd, DMCC, FHEA, FCCP, FANZCA, FCICM	Professor, Military Medicine; Staff Intensivist	clinical trials and preclinical models of: traumatic brain injury, coagulopathy, inflammation; early molecular identification of sepsis; individual patient data metaanalysis of clinical trials; design of trauma systems
Prof Jason Roberts	BAppSc, BPharm (Hons I), PhD, FSHP	Pharmacist Consultant and NHMRC Career Development Fellow	drug dosing in critically ill patients, therapeutic drug monitoring
Dr Joel Dulhunty	BSc (Hons), MTH, MBBS, PhD	Research Fellow	epidemiology of burn injury and severe sepsis, study design and methodology
Dr Jeremy Cohen	MBBS, BSc, MRCP, FRCA, FCICM, PhD	Staff Intensivist	adrenal function in critical illness
Dr John Gowardman	BSc, BHB, MBChB, FRACP, FCICM	Senior Staff Intensivist	intra-vascular device associated infections, Biofilm formation on vascular devices, head injury, weaning and extubation from mechanical ventilation
Dr Judith Bellapart	MD, ESICM, FCICM	Staff Intensivist	identifying alterations in microcirculation during shock using side stream dark field imaging
Dr Anthony Holley	BSc, MBBCh, DipPaeds, DipDHM, FACEM, FCICM	Senior Staff Intensivist	identifying alterations in microcirculation during shock using side stream dark field imaging
Dr Steve O'Donoghue	MBChB, FANZCA, FCICM	Staff Intensivist	microcirculation in shocked critically ill patients during resuscitation and prevention of ventilator associated pneumonia
Dr Neil Widdicombe	MBBS, FRCA (UK), FCICM	Senior Staff Intensivist, Hospital Medical Director Organ Donation	end-of-life care and organ donation, application of telemedicine in critical care, critical care retrieval and transport
Dr Jayesh Dhanani	MBBS, MD, FCICM	Staff Intensivist	antimicrobial therapy, lung infections, inhaled/aerosol therapy
Dr Rajeve Hegde	MBBS, MD, EDICM, FCICM	Senior Staff Intensivist	inhalation injury
Dr George Pang	MBBS, FANZCA, FCICM	Staff Intensivist	lipid rescue from anaesthetic overdose
Dr Jennifer Paratz	MPhty, FACP, PhD, GradCertEd (Medical and Health Sciences)	Consultant Physiotherapist, Senior Research Fellow	management and outcome of critically ill and burns patients, myocardial dysfunction, exercise and metabolism, diagnosis of sepsis in burns patients
Hiran Bandeshe	BSc, BEng	Database Manager	data mining, ICU database management
Therese Starr	GradCertCritCare, GradDipHealthProm, NNC	Research Manager	certified clinical research coordinator involved in major clinical trials
Melissa Lassig-Smith	DipAppSc (Nursing), GradDip (Adv Nursing), GradDipCritCare, MNursing (CritCare)	Research Coordinator	involvement in all aspects of studies in intensive care from initial proposal to completion
Janine Stuart	BNurs	Research Coordinator	involved with all research currently being completed in ICU, writing proposals, obtaining ethics approvals, writing grants, data collection and publishing research articles
Renae Deans	BNurs, CertCritCare	Research Coordinator	clinical research coordinator involved in the project management of major clinical trials
Paul Jarrett	Dip (HE) Nurs	Research Coordinator	involved in research studies taking place within ICU, from proposal to completion as well as communication and liaison with study sponsors and other coordinators

Research staff

Name	Qualifications	Position	Interests/specialities
Rachael Dunlop	BNurs, GradCert (CritCare)	Research Coordinator	involved in research studies taking place within ICU and QUT
A/Prof Fiona Coyer	PhD, MSc, Grad Cert (Adult education)	Senior Research Fellow	incontinence associated dermatitis, pressure injury prevention, end of life care, patient hygiene

Supervised post-graduate research students

Name	Current studies University ; (duration)	Research topic
Abdul Aziz, MH.	PhD, UQ (2012 -2016)	Continuous versus intermittent administration of beta-lacams in critically ill patients
Adnan, S.	PhD, UQ (2011-2014)	Improving antimicrobial use in critically ill patients
Al-Obaid, A.	PhD, UQ (2012 -2016)	Pharmacokinetics of piperacillin-tazobactam , meropenem and fluconazole in critically ill obese patients
Bellapart, J.	PhD, UQ (2013 -2016)	Cerebral microcirculation after head injury in bovine models
Bissett, B.	PhD, UQ (2010-2016)	Inspiratory muscle training for ventilated patients
Deans, R.	MPhil, UQ (2014 -2018)	A pilot multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs conventional liquid-stored platelets for the management of post surgical bleeding
Druery, M.	PhD, UQ (2014 -2017)	Psychosocial outcomes post severe burn injuries in adults - an exploratory study
Economou, C.	PhD, UQ (2012-2017)	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy
Flores, O.	PhD, UQ (2014 -2017)	Reversing metabolic changes post burn injury
Hanrahan, T.	MPhil, UQ (2011 -2014)	Vancomycin nephrotoxicity in critically ill patients: fact or fiction?
Jamal, JA.	PhD, UQ (2012-2014)	Beta-lactam pharmacokinetics during continuous venovenous haemofiltration in ICU patients: continuous infusion vs intermittent bolus.
Kayambu, G.	PhD, UQ (2010-2015)	Improving critical illness outcomes with early rehabilitation
Parker, S.	PhD, UQ (2012-2015)	Revitalising an old drug: saving critically ill patients with resistant infections with fosfomycin
Tsai, D.	PhD, UQ (2013 -2016)	Pharmacokinetics of common antibiotics used in Australian Aboriginal patients in the ICU
Williams, J.	PhD, UQ (2008-2016)	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection
Wong, G.	MBBS/PhD, UQ (2012 -2017)	A pharmacokinetic-pharmacodynamic evaluation of beta-lactam antibiotics TDM-guided dose adjustment in critically ill patients

Awards and achievements

Award	Event	Recipient
Vice-Chancellor's Award for Excellence	In recognition of exceptions sustained performance and outstanding achievement in learning, teaching and partnerships and engagement	Coyer, F.
Best Medical Paper – <i>A new marker of sepsis in burns?</i>	Australian and New Zealand Intensive Care Society	Paratz, JD.
John Thomson Medal, University of Queensland.		Reade, MC.

Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Bellapart, J.*, Boots, R.*, Reade, M.*, Fraser, J.	Cerebral microcirculation in head injury during normovolemic anemia: an experimental model	Royal Brisbane & Women's Hospital Foundation, Project Grant	\$34,758.18
Berney, S., Denehy, L., Needham, D., Paratz, J.*, Koopman, R., Hopkins, R.	Functional electrical stimulation assisted cycling (eStimCycle): A novel intervention to improve outcomes in the critically ill	NHMRC Project Grant	\$842,000
Cohen, J.*, Blumenthal, A., Venkatesh, B.	The Wnt Signalling Pathway: Exploring Opportunities for New Biomarkers and Therapeutic Intervention in Sepsis	Australian Infectious Disease Research Centre, Project Grant	\$50,000
Coyer, F.*, Campbell, J., Vann, A.*, McNamara, G.	Translating evidenced-based pressure injury prevention into the intensive care environment	Health and Medical Research, Queensland Health, Project	\$119,589
Coyer, F.*, Slattery, P., Thomas, P., McNamara, G., Kahtun, M., Edwards, C.	Extreme pressure study: exploring pressures, tissue reperfusion and body positioning – a pilot evaluation among critically ill patients	Royal Brisbane & Women's Hospital Foundation, Project Grant	\$50,000
Joynt, G., Lee, A., Gomersall, C., Choi, G., Roberts, J.*, Lipman, J.*	Antibiotic PKs in critically ill patients receiving RRT – a prospective multi-centre cohort study	General Research Fund, The Chinese University of Hong Kong, Project	\$70,181 (2014-2015)
Li, X., Sheng, MQ., Lipman, J.*, Boots, RJ.*	Effective Recommendations based on Multi-Source Data	ARC Project	\$411,000 (2014-2016)
Lipman, J.*, Roberts, JA.*, Paratz, JD.*, Paterson, DL.	Strengthening the School of Medicine's position as a central coordinator of global pharmacokinetic studies in critically ill patients	University of Queensland Major Equipment & NHMRC Equipment Grant	\$110,790 (2014)
Lipman, J.*, Roberts, JA.*, Peake, SL., Joynt, GM., Udy, AA., Nicholls, MB.	Pharmacokinetic Australasian Collaborative	Intensive Care Foundation, Project	\$39,156 (2014)
MacGowan, A., Hope, W., Roberts, JA.*, McAuley, D., Woodhead, M., Lovering, A., Felton, T., Gardner, E., Agus, A., Berry, E., Walsh, T.	Minimising the risks of emergence of antibiotic resistance during therapy by precise regimen individualization and use of combination therapy (MINIRES)	Research for Patient Benefit, National Institute for Health Research, UK Project	\$646,378 (2014-2016)
Paratz, J.*, Boots, R.*, Kenardy, J., Comans, T., Mitchell, G., Coyer, F.*, Thomas, P., Singh, S.	Improving outcomes in patients post sepsis	HMR Fellowship Grant Fellowship	\$182,000 (2014-2017)
Roberts, J.*, Paterson, D., Cooper, M., Lipman, J.*, Roberts, M., Schembri, M., Bulitta, J., Landersdorfer, C.	Addressing an unmet need by establishing a state-of-the-art translational model at UQ: The hollow fibre in vitro infection model	UQ MEI and NHMRC Equipment Grant	\$195,974 (2014-2015)
Roberts, MS., Anissimov, Y., Grice, J., Lehmann, P., Maibach, H., Weiss, M., Wittum, G., Sinner, F., Stinchcomb, A., Walters, K., Roberts, JA.*	Physiologically based biopharmaceutics and pharmacokinetics of drug products for dermal absorption in humans	US Food and Drug Administration Project	\$676,552 Project
Tsai, D.	Improving Dosing of Common Antibiotics used in Critically Ill Australian Indigenous Patients	NHMRC Training scholarship	\$77,058 (2014-2016)

Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Tsai, D.	Improving Dosing of Common Antibiotics used in Critically Ill Australian Indigenous Patients	2014 Douglas and Lola Douglas Scholarship in Medical Science, Scholarship	\$21,000 (2014-2016)
Webb, S., Paterson, DL., Lipman, J.*, Roberts, JA.*	Incidence, Risk Factors, Consequences and treatment of ventilated patients with nosocomial infection with pandrug resistant organisms in hospitals in Asia. Award.	University of Western Australia- University of Queensland Collaboration Award	\$20,000 (2014-2015)

Department of Hyperbaric Medicine Service



Dr Kenneth Thistlethwaite
Acting Director
Hyperbaric Medicine

Overview

About this service: The RBWH Hyperbaric Medicine Service provides inpatient and outpatient treatments in line with evidence based indications approved by the international scientific body, The Undersea and Hyperbaric Medicine Society. It is a subspecialty of the Australian and New Zealand College of Anaesthesia but indications are derived from multiple specialities. Approximately 50% of the current workload is provided in support of therapeutic radiation induced tissue damage, both symptomatic treatment of and surgical intervention within. There are applications wherever microvascular disease impedes normal tissue metabolism. Support is provided for endovascular and tissue bubble injury, for example with decompression illness and CAGE, both within the recreational and commercial diving community and iatrogenic injury.

Highlights of 2014: A major area of work has centred around the newest indication for treatment with hyperbaric oxygen therapy, Idiopathic Sudden Sensorineural Hearing Loss. A multi-centred trial based out of the Wesley Hospital for treatment of chronic non healing leg wounds has been completed this year and ongoing trials with Xerostomia and Diabetic patients continue. New research is exploring the incidence and effects of oxygen toxicity on the CNS and eye in our current practice and the reliability and predictability of Transcutaneous Oximetry Measurement of the Leg.

Benefits for clinical practice: Current existing guidelines for timing and use of the modality for treatment for Idiopathic Sudden Sensorineural hearing Loss will change. The therapeutic window has been further defined and it is hoped that these results will provide impetus for treatment amongst the ENT community. Similarly, when published, it is hoped the conclusions from the chronic non healing leg wound trial will provide important guidelines that optimise healing and cost effective intervention.

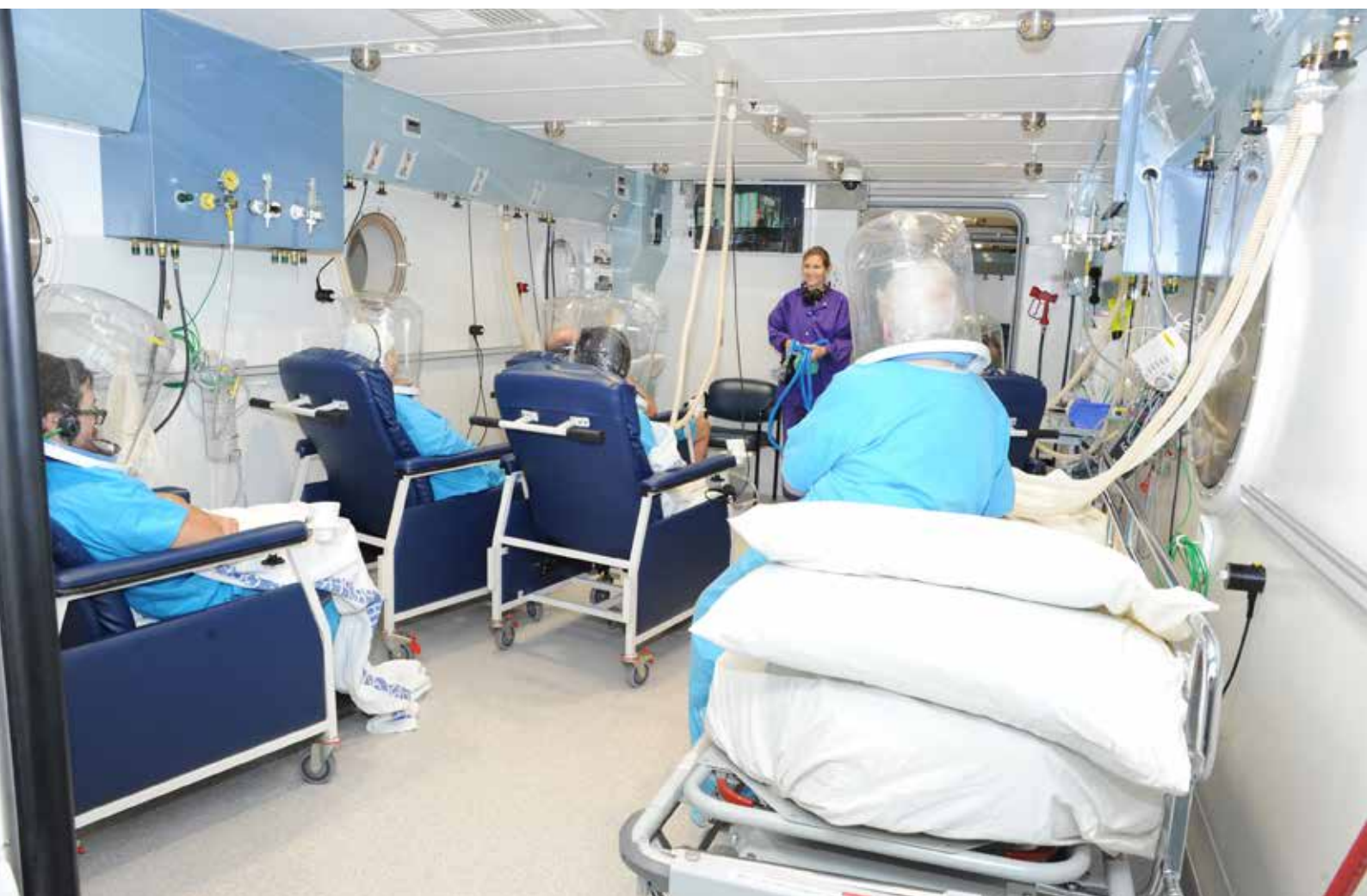


Research staff

Name	Qualifications	Position	Interests/specialities
Dr Susannah Sherlock BSc	MBBS, FANZCA	SMO	HBO2 with respect to soft tissue radiation injury, sudden sensorineural hearing loss, diabetic wound healing
Dr Kenneth Thistlethwaite BSc(Hons), MBBS, FRACGP(JCCA)		SMO	Chronic non healing leg wounds, sudden sensorineural hearing loss, diabetic wound healing
Dr Tobias Trinks	State Exam Medicine (Germany), PhD (Germany), AMC exam, FANZCA	Registrar	Transcutaneous Oxygen Measurements, Diving Medicine

Research grants

Investigators	Project title	Granting body and scheme	Amount awarded (years)
Sherlock, S.	Hyperbaric oxygen therapy for foot ulcers in diabetes	ANZCA	\$20,000 (2014)
Sherlock, S.	Hyperbaric oxygen therapy for foot ulcers in diabetes	RBWH Private Practice Trust Fund	\$10,000 (2013-2014)



Department of Medical Imaging



Prof. Alan Coulthard
Director
Research

Overview

About this service: The Department of Medical Imaging (DMI) provides a full range of diagnostic and interventional imaging services. DMI is actively involved in departmental, interdepartmental and multi-site collaborative research projects. The DMI Research Office, under the directorship of Professor Alan Coulthard, manages approximately 70 service-based research studies, for which the department provides imaging services to research projects and clinical trials established by other RBWH departments, and by external research groups from UQ. In 2014, thirteen new service-based research projects were established. The DMI Research Office also provides research support to residents and radiology registrars. Residents are encouraged to become involved in existing departmental projects, and we also provide support for those wishing to start new imaging-related projects in collaboration with DMI staff. This provides an environment for junior doctors to develop key research skills required for their future progression to the Queensland Radiology Training Program. Registrars are required by the Royal Australian and New Zealand College of Radiologists (RANZCR) to complete two research projects to fulfil their specialty training assessment requirements. Registrars are supervised by consultants from DMI, and from other radiology training sites in Queensland. 12 registrar projects are in progress in DMI, including audits and prospective studies across a range of imaging modalities. 22 registrars have now been completed their Part 1 and/or Part 2 research projects, resulting in publication or presentation at national and international conferences.



Dr John Clouston
Director
Medical Imaging

Highlights of 2014: Through sustained involvement in multicentre research studies, DMI has continued to strengthen research collaborations with other RBWH departments, along with external research groups. There is a significant collaboration with Radiation Oncology with many projects arising from involvement with the Trans-Tasman Radiation Oncology Group (TROG). Other notable collaborations exist between DMI, Nuclear Medicine, Neurosurgery and CSIRO. Research projects conducted by DMI staff and students have culminated in 11 publications in peer-reviewed journals in 2014, along with ten presentations (oral and poster) at national and international conferences by consultants, registrars and radiography staff.

Benefits for clinical practice: Research in DMI provides valuable insights into standards of practice by exploring new diagnostic and interventional avenues, leading to improvements in patient treatment and care across all imaging modalities. Examples include establishing the validity of non-invasive imaging over invasive for follow up of treated interventional patients, determining best practice and technology for management of anti-platelet therapy, and investigating the relative role of MRI versus PET in brain tumour follow up.

Research staff

Name	Qualifications	Position	Interests/specialities
Dr John Clouston	MBBS, FRANZCR	Director, Medical Imaging	neuroradiology, neuro-intervention
Prof. Alan Coulthard	MBBS, BMedSci, FRCS, FRCR, FRANZCR	Director of Research, Dept Medical Imaging, Professor of Neuroradiology and Head of The University of Queensland (UQ) Discipline of Medical Imaging	thoracic and breast imaging and intervention
Assoc. Prof. Karin Steinke	MD, MS, PD, FRANZCR	Staff Specialist	medical student education, quality management in radiology, software
Assoc. Prof. Peter Scally	MBBS, FRANZCR	Staff Specialist	development to teach critical analysis
Dr Paul Tesar	MBBS, FRANZCR, FRCR, FRCPA	Staff Specialist	imaging of gastrointestinal tract, liver and musculoskeletal system
Dr Nick Kienzle	MBBS, FRANZCR	Staff Specialist	interventional radiology and abdominal imaging
Dr Craig Hacking	BSc (Biomed), MBBS, FRANZCR	Staff Specialist	imaging and cancer staging
Patrick Eastgate	BNurs, BAppSci (Medical Imaging), MSc (Image Interpretation)	Senior Radiographer	image interpretation
Dr Karen Dobeli	MAppSci(MedRadSci), FIR, PhD	Senior Radiographer	computed tomography
Dr Janelle Thomas	BSc(Hons), PhD	Research Development Officer	research development

Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Odenthal, C.	MPhil, UQ (2013-2017)	Atrophy measures in multiple sclerosis

Research grants

Investigators <small>*RBWH staff; this department</small>	Project title	Granting body and scheme	Amount awarded (years)
Rose, S., Crozier, S., Salvado, O., Coulthard, A.*, Thomas, P., Fay, M.	Improving assessment of brain tumour treatment outcome using 18F-FDOPA PET MRI	NHMRC, Project Grant	\$637,125 (2010-2015)
Clouston, J.*, Coulthard, A.*.	Funding of Research Development Officer Position	Covidien, Education Grant	\$190,942 (2012-2015) \$70,236 /yr
Coulthard, A.*, Rose, S., Macfarlane, D., Slaughter, R.	ACRF molecular oncology translational imaging facility	ACRF, Project/Facility	\$2,000,000 (2013- 2015)
Taylor, B., van der Mei, I., Lucas, R., Blizzard, C., Coulthard, A.*, Broadley, S., Williams, D., Shaw, C.	The role of environmental and genetic factors in progression of multiple sclerosis	NHMRC, Project Grant	\$945,084 (2014-2017) 129,246 /yr



Professor Tess Cramond Multidisciplinary Pain Centre



Overview

The Professor Tess Cramond Multidisciplinary Pain Centre provides assessment and management of inpatients and outpatients with complex persistent pain, malignant pain and burns pain that may impact adversely upon multiple dimensions of patient's lives. The Pain Centre intends to expand the research program to include pharmaceutical and interventional therapies, evaluation of systems, models of care and outcome measures for pain management, and the role the Centre's pain management programs on mood, stress, sleep and activity.

Prof. Julia Fleming

Director
Professor Tess Cramond
Multidisciplinary Pain Centre

Research staff

Name	Qualifications	Position	Interests/specialities
Prof Julia Fleming	MBBS, PhD, FANZCA, FFPMANZCA, Dip Med (Pain Mngmt)	Director	Pain Medicine, Neurobiology of pain, glia and spinal inhibitory systems, neuropathic and metastatic bone pain, public health in pain
Dr Paul Gray	MBBS, PhD, FANZCA, FFPMANZCA	Senior Staff Specialist	Pain Medicine, Anaesthesia; burn pain; persistent pain management strategies including interventional.
Dr Bryce Clubb	MBBS, FRACR, FFPMANZCA, FACHAM, RACP	Staff Specialist (Pain Medicine, Addiction medicine)	Concurrent chronic non-malignant pain and substance dependence
Nicole Andrews	BOccThy (Hon 1)	Senior Occupational Therapist	Chronic pain, activity patterns, disability and daily function
Mr Karl Bagraith	BOccThy (Hon1)	Principle Project Officer New MOC Workforce	Outcome measurement, persistent pain, chronic musculoskeletal conditions, International Classification of Functioning, Disability and Health

Supervised post-graduate research students

Name	Current studies University; (duration)	Research topic
Siti Sarah Fazalul Rahiman	PhD	The potential role of DYN A (1-17) fragments as an immunotherapeutic target in peripheral inflammation (Supervisor: Dr P Gray)