

2017

RBWH

RESEARCH REPORT

CRITICAL CARE AND CLINICAL SUPPORT SERVICES

RBWH

celebrating

150
years

1867-2017



Queensland
Government

CRITICAL CARE AND CLINICAL SUPPORT SERVICES



DR MARK MATTIUSSI
Executive Director Critical
Care and Clinical Support Services

*Our projects seek to
develop, refine and
direct the care for our
patients*

All world class health services have one thing in common - they recognise the vital importance of research as a critical cornerstone of clinical excellence and the RBWH Critical Care and Clinical Support Services team continue to embody this principle with enthusiasm and pride. 2017 has also seen the transfer of the state-wide Genetic Health Queensland team into our service line.

Our service line team collaborates locally, nationally and internationally to find and develop best practice solutions to the care we provide for our patients. Our projects seek to develop, refine and direct the care for our patients in addition to leading practice models for the future.

The 2017 Research Report showcases the depth and breadth of research and its integration into clinical care across the teams within our Service Line. Our team of clinicians and researchers are well published in peer review journals and text books within their speciality areas and beyond. They are nationally and internationally recognised for their work. In 2017 our team has focused on leading improvement in the areas of connected and coordinated care, medication management and in particular a focus on reductions in opioid prescribing, antibiotic stewardship and “Choosing Wisely” in the way our health care is delivered.

A focus on partnerships and collaboration has increased our capacity to participate in European research collaborations and other international partnerships.

The recognition of one of our own team members, Professor Lipman, as Metro North Researcher of the Year 2017 and his appointment as the RBWH Research Ambassador recognises the contribution that he and the team make to research and is a fabulous recognition and opportunity for Jeff, our Critical Care and Clinical Support Services and the RBWH.

EMERGENCY AND TRAUMA CENTRE

We celebrate the research activities across all of our service line teams and continue to invest the time, resource, enthusiasm and passion ensuring that Critical Care and Clinical Support Services plays its part in ensuring that RBWH continues to maintain its position as a world class health service.

The Emergency and Trauma Centre has had another fruitful year with 49 papers published and another 18 accepted for publication in peer-reviewed journals within our speciality as well as outside Emergency Medicine. Our highly productive investigators have drawn on their expertise in medical and nursing practice at the coalface and collaborated across specialities and institutions to make a difference to the patients that we all serve. Pragmatic and translational research is the highlight this year for a department that cares for over 70,000 patients per year. The Cannulation Rates in Emergency Department Intervention Trial (Hawkins et al.) has shown that an education and awareness campaign can reduce unnecessary peripherally inserted intravenous catheters by 10%. This reduces the risks of pain and infection for patients as well as healthcare costs. The Working Together to Connect Care study (Harcourt et al.) has revealed that a program partnering Emergency Department (ED) with primary and community healthcare sectors can improve the care and long-term outcomes of patients who frequently attend the ED. Ambulance usage, ED presentation, hospital bed days, as well as costs per Queensland Weighted Activity Unit are all reduced as a result. The ED Opioid Prescribing Intervention to Optimise Discharge study (Savage et al.) has demonstrated successful inventions to reduce opioid prescribing especially for patients discharged from the ED. The avoidance of opioids is in sync with the Choosing Wisely Australia campaign, for example, to not use opioids for the treatment of migraine. The Accelerated Chest Pain Risk Evaluation project has been successfully translated across Queensland Health. The two papers relating to this research (Parsonage et al., Cullen et al.) were selected by the editors of The Medical Journal of Australia in the list of top ten research articles published in 2017.

SUPERVISED POST-GRADUATE RESEARCH STUDENTS

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Julian Williams	PhD, QUT (2008-2017)	Identifying risk factors for MRSA	Jeffrey Lipman, Anthony Brown
Wahid Allihaibi	PhD, QUT (2015-2018)	A New Approach to Optimise Hospital Emergency and Inpatient Operations	Michael Cholette, Azharul Karim, John Burke
Kazi Ahsan	PhD, QUT (2014-2017)	Lean integrated optimisation model of emergency department for improved patient flow	Azharul Karim, Gerard Fitzgerald, Michael Cholette, John Burke , Doug Morel
Michael Chen	MEpi, UQ (2016-18)	Outcomes of patients with abdominal pain in the emergency department	Melinda Protani (UQ), Kevin Chu
Dylan Flaws	PhD, UQ (2012-2017)	Derivation of a diagnostic decision tree for the Acute Coronary Syndrome management pathway	Louise Cullen , Martin Than
Ariel Ho	MPhil, UQ (2016-2017)	Examination of Troponin Testing during Implementation and Post- Implementation of Accelerated Chest Pain Assessment Strategies: a Marker of Translational Research Success	Louise Cullen, Jaimi Greenslade
Daniel Lancini	PhD, UQ (2016-2020)	Atrial fibrillation in hospitalised patients	Louise Cullen , Paul Martin

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Kirsten Strudwick	PhD, UQ	Musculoskeletal quality indicators	Trevor Russell (UQ), Melinda Martin-Kahn (UQ), Anthony Bell
Kimberley Ryan	Master of Nursing, QUT (2015-2017)	The lived experience of emergency nurses caring for elderly patients dying from traumatic injuries	Dr Leanne Jack (QUT) James Hughes
Laura Foran	MPhil, QUT (2017-2019)	Clinical presentation characteristics of Aboriginal and Torres Strait Islander patients presenting to an Emergency Department with suspected Acute Coronary Syndrome.	Louise Cullen, Jessica Suna
Azka Fathiyatir Rizqillah	Master of Nursing, QUT (2016-2018)	Indonesian emergency nurses' disaster preparedness to respond to natural disaster	Jessica Suna
Nicola Harper	PhD, UQ (2017-2019)	A pre and post evaluation of the impact of an Automated Medication Distribution System (AMDS) on medication administration in the RBWH Emergency Department	Jessica Suna
Caitlin Lock	MPhil, QUT (2017-2019)	Evaluation of an emergency department extended-hours pharmacy service and its impact on length of stay	Sonya Osborne (QUT), David Brain (QUT), Anthony Bell, Ian Coombes, Louise Cullen, Neil Cottrell (UQ)

2017 RESEARCH POSITIONS: COORDINATORS, FELLOW, ADJUNCT AND HONORARY POSITIONS

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Venkat Acholi	Emergency Physiotherapist	Physiotherapy defined scope of practice (prescribing)	
Anthony Bell	Associate Professor	Faculty of Medicine, Southside Clinical School	UQ (2012-current)
	Adjunct Associate Professor	School of Public Health	QUT (2013-current)
Daniel Bodnar	Senior Lecturer	Faculty of Medicine	UQ (2012-current)
Anthony Brown	Professor of Emergency Medicine	Faculty of Medicine, Discipline of Anaesthesiology and Critical Care	UQ (2009-current)
	Adjunct Professor	School of Public Health and Social Work	QUT (2009-current)
Nathan Brown	Honorary Senior Lecturer	Faculty of Medicine, Discipline of Anaesthesiology and Critical Care	UQ (2016-current)
Julia Brownlie	Nurse Practitioner	Emergency nurse practitioner in early pregnancy	
John Burke	Adjunct Associate Professor	School of Public Health and Social Work	QUT (2016-current)
Mary Caole	Summer Scholarship Student	Drug treatment of headache in the emergency department	UQ
Kevin Chu	Adjunct Associate Professor	Faculty of Medicine	UQ (2011-current)
	Adjunct Associate Professor	School of Public Health and Social Work	QUT (2009-current)

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Louise Cullen	Adjunct Professor	Faculty of Health	QUT (2016-current)
	Associate Professor	Faculty of Medicine	UQ (2015-current)
Elizabeth Doran	Senior Pharmacist		
Lufei Gao	Research Assistant	Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study: An evaluation of the prescribing patterns and level of communication for oxycodone on discharge from RBWH ED	
Vanessa Grayson		Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study: An evaluation of the prescribing patterns and level of communication for oxycodone on discharge from RBWH ED	
Jaimi Greenslade	Adjunct Senior Lecturer	Faculty of Medicine	UQ (2011-current)
	Adjunct Associate Professor	School of Public Health and Social Work	QUT (2012-current)
Janelle Heine	Emergency Physiotherapist	Physiotherapy defined scope of practice (prescribing)	
Catherine Hurn	Senior Lecturer	Faculty of Medicine	UQ (2008-current)
Tegwen Howell	Research Officer		
David Hughes	Senior Pharmacist		
James Hughes	Conjoint Senior Nursing Research Fellow	School of Nursing	QUT (2017 – Current)
David Kramer	Staff Specialist	Physiotherapy defined scope of practice (prescribing)	
Trent Lipp	Senior Lecturer	Faculty of Medicine	UQ (2014-current)
Caitlin Lock	Quality Improvement Officer	Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study: An evaluation of the prescribing patterns and level of communication for oxycodone on discharge from RBWH ED	
William Lukin	Senior Lecturer	Faculty of Medicine	UQ (2008-current)
Alexandra Markwell	Senior Lecturer	Faculty of Medicine	UQ (2012-current)
Duncan McAuley	Senior Lecturer	Faculty of Medicine	UQ (2012-current)
Philip Richardson	Senior Lecturer	Faculty of Medicine	UQ (2001-current)
David Rosengren	Senior Lecturer	Faculty of Medicine	UQ (2006-current)
Sean Rothwell	Senior Lecturer	Faculty of Medicine	UQ (2006-current)
Rina Savage	Senior Lecturer	Faculty of Medicine	UQ (2017-current)
Jessica Suna	Conjoint Senior Nursing Research Fellow	Faculty of Nursing	QUT (2017-current)
Frances Williamson	Senior Lecturer	Faculty of Medicine	UQ (2012-current)

2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Louise Cullen	William Parsonage (Cardiology)	Basel Syncope Evaluation Study (Basel IX)
Louise Cullen	Jaimi Greenslade (ETC), William Parsonage (Cardiology), Adam Scott (Cardiology) , Jacobus Ungerer (Pathology Queensland), Tracey Hawkins (ETC) , Gerben Keijzers (GCUH), Julia Critly (Griffith University), Nicholas Graves (QUT), Ariel Ho (UQ)	Examining translation of research into improved assessment for heart attack
Louise Cullen	Jaimi Greenslade (ETC), Julian Williams (ETC) , Claire Rickard (Griffith University), Matthew Jensen (ETC) , Paul Scuffham (Griffith University), Frances Kinnear (TPCH)	The cannulation rates in ED intervention trial (CREDIT)
Louise Cullen	John Fraser, Kiran Shekar, Liam Byrne, Obonyo Nchfatso, Connie Boon, Louise See Ho, Margaret Passmore, Kathryn Maitland	Too much of a good thing; does fluid resuscitation worsen septic shock?
Louise Cullen	Anthony Brown (ETC), Jaimi Greenslade (ETC) , Peter O'Rourke (QUT), Kevin Chu (ETC) , Xiang-Yu Hou (QUT), William Parsonage (Cardiology) , Nicholas Graves (QUT), Martin Than (Christchurch Hospital, NZ)	Rapid assessment of cardiac chest pain: The Australia and New Zealand Assessment of chest Pain Rule (ANZAP rule): A prospective validation study
Gary Mitchell	Louise Cullen (ETC)	Diagnosis of acute coronary occlusion in patients with a ventricular paced rhythm (PERFECT)
Mahender Samtani	Jennifer Paratz (Physiotherapy), Shaun O'Leary (Physiotherapy), Venkat Acholi (ETC), Janelle Heine (ETC)	Comparison of two exercise approaches for the management of low back pain in the emergency department setting
Philip Richardson	Elizabeth Doran (Pharmacy), Kevin Chu (ETC), Jaimi Greenslade (ETC)	Medication & Fluid orders in the Emergency Department: Examining the incidence of error and adverse events
Alexandra Markwell	Tegwen Howell (ETC) , Carol Windsor (QUT), Anthony Bell (ETC), Kevin Chu (ETC), Angela O'Malia (Social Work)	Describing the experiences of social workers in a tertiary ED

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Kevin Chu	Jeremy Furyk (Townsville Hospital), Gerben Keijzers (GCUH), Carol Windsor (QUT), Rob Eley (PAH), Frances Kinnear (TPCH), Andrew Staib (PAH)	Diagnostic workup for suspected subarachnoid haemorrhage
Kevin Chu	Anthony Nguyen (Australian e-Health Research Centre, CSIRO)	Preventing missed diagnoses through automated reconciliation of ED medical records
Bill Lukin	Xiang-Yu Hou (QUT), Gerald Fitzgerald (QUT), David Green (GCUH), Alan O'Connor (ETC) , Nicholas Graves (QUT), Alan Barnard (QUT), Jaimi Greenslade (ETC) , Kevin Chu (ETC)	Evaluation of Hospital In Nursing Home Program in Queensland
John Burke	Gerald Fitzgerald (QUT)	Four hour rule project - validation and impact of the four hour rule in the ED: a large data linkage study
Julian Williams	David Paterson (Infectious Diseases Unit) , Graeme Nimmo (Microbiology) , Jaimi Greenslade (ETC) , Katherine Doucet , Kevin Chu (ETC) , Jeffrey Lipman (ICU) , Anthony Brown (ETC)	Identifying risk factors for MRSA
Daniel Bodnar	Emma Bosley (QAS), Stephen Rashford (QAS), Mark Shirran (GCUH), Catherine Hurn (ETC) , Matthew Meister, Glenn Ryan (PAH)	Queensland pre-hospital study identifying which trauma patients are at risk of bleeding to death
Anthony Bell	Michelle Romeo (MNHHS), Roger O'Gorman (ETC) , Trudy Teasdale (GCUH), and The Australian eHealth Research Centre (CSIRO)	Reviewing equitable access to healthcare outcomes outside of hours (REACH)
Anthony Bell	John Burke (ETC) , Gerald Fitzgerald (QUT), Sam Toloo (QUT), Julia Crilly (GCUH), Ged Williams (GCUH)	State-wide models of care in emergency departments (SWAMPED)
Tina Moriarty	Kevin Chu (ETC) , Daniel Bodnar (ETC) ,	Roll overs in field triage (RIFT)
Debra Harcourt (ETC/Patient Flow Unit)	Leonie Cartlidge-Gaan (Internal Medicine) , Clancy McDonald (ETC) , John Burke (ETC) , Anthony Nesbit (Patient Flow Unit) , Amanda Dines (Executive Services)	Emergency department frequent presenters response project
Daniel Bodnar	Zoe Stevens (UQ), Steven Raven (QAS), Michael Handy (Trauma Service) , Sue Williams (Pathology Queensland) , Stephen Rashford (QAS)	What are the haematological and biochemical abnormalities seen in patients given prehospital blood transfusions for trauma?
Kevin Chu	Nathan Brown (ETC)	Drug treatment of headache in the emergency department

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Louise Cullen	Nathan Brown (ETC), Jaimi Greenslade (ETC), Peter Donovan (Internal Medicine), Ian Coombes (Pharmacy), Neil Cottrell (UQ), Bill Lukin (ETC), Anthony Bell (ETC), Elizabeth Doran (ETC), David Hughes (ETC)	Prevalence and characteristics of medication-related presentations to the emergency department
Kevin Chu	Judith Bellapart (Intensive Care Medicine), Craig Winter (Neurosurgery), Rosalind Jeffree (Neurosurgery), Jeffrey Lipman (Intensive Care Medicine), Jacobus Ungerer (Pathology Queensland), Anita Pelecanos (QIMR Berghofer), Anthony Brown (ETC) Nathan Brown (ETC)	Timing of lumbar puncture for the detection of xanthochromia in suspected subarachnoid haemorrhage
Julia Brownlie	Louise Cullen (ETC), Jaimi Greenslade (ETC), Jessica Suna (ETC)	Emergency nurse practitioner in early pregnancy

2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Julia Crilly (Griffith University and GCUH)	David Rosengren (ETC), Sean Rothwell (ETC)	Evaluating the impact of alcohol on emergency department presentations (ETOH)
Drew Richardson (The Canberra Hospital)	David Rosengren (ETC)	Australasian College of Emergency Medicine Alcohol Harm in Emergency Departments (AHED) Snapshot
James Winearls (GCUH)	Catherine Hurn (ETC), Anthony Holley (Trauma Services)	Fibrinogen early in severe trauma study (FEISTY)
Andrea Driscoll (Deakin University)	Louise Cullen (ETC)	Redesigning systems of care for heart failure patients to improve outcomes
William Crawford (TPCH)	Louise Cullen (ETC)	Impact of fluid volume resuscitation on nitric oxide-induced oxidative stress and cardiac dysfunction in an ovine septic shock model
Christopher Reid (Curtin University of Technology, WA)	Louise Cullen (ETC)	Centre for Research Excellence in Cardiovascular Outcomes Improvement
Kylie Baker (Ipswich Hospital)	Louise Cullen (ETC)	Breathe easy early study (BEES)
John Fraser (TPCH)	Louise Cullen (ETC)	Cardiovascular haemodynamics in an ovine model of brain stem death

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Paul Fulbrook (TPCH)	Fiona Coyer (Nursing Research and Development Unit), Rhys Higgo (ETC)	Pressure injuries in the emergency department
Colin Page (PAH)	Frances Williamson (ETC)	An audit of a change in clinical practice for Queensland Ambulance Service from midazolam to droperidol for prehospital acute behavioural disturbance
Glenn Ryan (PAH)	Frances Williamson (ETC)	Potential of resuscitative balloon occlusion of the aorta (REBOA) for non-compressible torso haemorrhage
Frances Kinnear (TPCH)	Kevin Chu (ETC)	A randomised controlled trial of interventional versus conservative treatment of primary spontaneous pneumothorax
Kylie Baker (Ipswich Hospital)	Kevin Chu (ETC)	Multicentre randomised controlled trial incorporating bedside lung ultrasound into the diagnosis of congestive cardiac failure in breathless older patients
Stephen Rashford (QAS)	Daniel Bodnar (ETC)	A prospective blinded evaluation of the sensitivity and specificity of pre-hospital Focussed Abdominal Sonogram for Trauma (FAST)
Bradley Partridge (Caboolture Hospital)	Anthony Bell (ETC)	Survey of occupational violence in the emergency department
David Mountain (Sir Charles Gairdner Hospital, Perth)	Kevin Chu (ETC)	RESPECT-ED: Rates of pulmonary emboli (PE) and sub-segmental PE with modern computed tomographic pulmonary angiograms in emergency departments: a multi-centre observational study
Simon Brown (Harry Perkins Institute of Medical Research)	Kevin Chu (ETC)	Primary spontaneous pneumothorax (PSP) study
Peter Jones (Auckland District Health)	Anthony Bell (ETC)	Systematic review on emergency department overcrowding
Jeffrey Braithwaite (Australian Institute of Health Innovation, Macquarie University)	Anthony Bell (ETC)	Deepening our understanding of quality in Australia (DUQuA)
Kazi Badrul (QUT)	John Burke (ETC)	Lean integrated optimisation model of emergency department for improved patient flow
Wahid Allahaibi (QUT)	John Burke (ETC)	A new approach to optimise hospital emergency and inpatient operations
Mark Cruickshank (RBWH Physiotherapy)	Venkat Acholi (ETC), Janelle Heine (ETC), David Kramer (ETC)	Physiotherapy defined scope of practice (prescribing)
Alistair Hamilton (Trauma Service)	Catherine Hurn (ETC)	Goal directed transfusion in trauma: the impact of thromboelastometry (ROTEM®) on allogenic blood product usage
Julia Crilly (Griffith University and GCUH)	Jaimi Greenslade (ETC) Jessica Suna (ETC) James Hughes (ETC)	Morale, stress and coping strategies of staff working in the emergency department: A national and international comparison
Paul Haber (RPAH, University of Sydney)	Clancy McDonald (ETC)	Reconnecting after a suicide attempt (RAFT) – feasibility study
Georgia Livesay (PAH)	James Hughes (ETC), Nathan Brown (ETC), Tegwen Howell (ETC)	Understanding the patterns, circumstance and outcomes of power tool injuries in occupational and domestic settings to inform a safety campaign.

2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Tracey Hawkins	“The Cecilia Brazil Nursing Research Award”	2017 RBWH Healthcare Symposium, Brisbane
David Hughes	“Health Services Implementation Research Award”	2017 RBWH Healthcare Symposium, Brisbane
Louise Cullen	Fellow of the European Society of Cardiologists	
Louise Cullen	“Complex Health Challenges Research Award”	2017 RBWH Healthcare Symposium, Brisbane
Louise Cullen	“Best Overall Presentation”	2017 RBWH Healthcare Symposium, Brisbane
Louise Cullen	“Runner-up, 2017 People’s Choice: Best Emergency Medicine Researcher in Australia”	Emergency Medicine Foundation Research Symposium, Brisbane
Caitlin Lock	Finalist for “Qual-ED” – Innovation Category	2017 Metro North Staff Excellence Awards, Brisbane
Matilda Schmidt	Finalist for “The Blood Clock” – Innovation Category	2017 Metro North Staff Excellence Awards, Brisbane
Working Together to Connect Care Program: an ED and Community Initiative	Finalist - Excellence in Integrated Care Category	2017 Metro North Staff Excellence Awards, Brisbane

2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Driscoll A, Tonkin A, Hare D, Prior D, Cullen L , Albert N, et al.	Emergency & Trauma Centre	Redesigning systems of care for heart failure patients to improve outcomes	National Heart Foundation	\$75,000	\$150,000 (2016 – 18)
Cullen L , Fraser J, Shekar K, Byrne L, Nchafastso O, Boone C, et al.	Emergency & Trauma Centre	Too much of a good thing; Does fluid resuscitation worsen septic shock?	Emergency Medicine Foundation	\$77,233	\$77,233 (2016 – 17)
Cullen L , Graves N	Emergency & Trauma Centre	The impact of ImpACT: a protocol to improve emergency chest pain assessment	AusHSI	\$55,000	\$110,000 (2016–17)

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Savage R, Kline T, Lock C, Pattullo C, Bell AJ.	Emergency & Trauma Centre, Pharmacy Department	Emergency Department Opioid Prescribing Intervention: Optimising Discharge (ED OPIOID) Study: An evaluation of the prescribing patterns and level of communication for oxycodone on discharge from RBWH ED	Emergency Medicine Foundation	\$10,000	\$34,955 (2017-2018)
Chew D, Briffa T, Cullen L , Quinn S, Karon J	Emergency & Trauma Centre	Improving rapid decision-making in the face of uncertainty: a randomised trial of a 1-hour troponin protocol in suspected acute coronary syndromes	NHMRC	\$0	\$1,095,320 (2017-20)
Briffa T, Cullen L, Chew D, Knuiman MW, Fatovich D, Hickman PE, et al.	Emergency & Trauma Centre	Is highly-sensitive troponin testing advancing clinical practice, improving outcomes and cost-effective in the investigation and management of chest pain in the Emergency Department?	NHMRC	\$0	\$1,193,966 (2017-20)
Lancini D, Cullen L, Martin P, Prasad S, Greenslade J	Emergency & Trauma Centre, Department of Cardiology	Atrial fibrillation in the emergency chest pain presentation	RBWH Foundation	\$15,335	\$15,335 (2017)
Crilly J, Rosengren D , Green D, Furyk J, Rothwell S.	Emergency & Trauma Centre	Evaluating the impact of alcohol on emergency department presentations (ETOH) awarded June 2016 (\$359,758).	Queensland Health	\$18,193	\$359,758 (2016-2017)
Chu K , Bellapart J, Winter C, Jeffree R, Lipman J, Ungerer J, Pelecanos A, Brown AFT, Brown N.	Emergency & Trauma Centre, Department of Intensive Care Medicine, Department of Neurosurgery,	Timing of lumbar puncture for the detection of xanthochromia in subarachnoid haemorrhage	RBWH and RBWH Foundation Project Grant	\$0	\$39,978 (2018)
Greenslade J , Sullivan K, Chu K , Hills A, Mullins R, Smith S.	Emergency & Trauma Centre	Active-TBI for slow-to-recover mild traumatic brain injury	RBWH and RBWH Foundation Project Grant	\$0	\$39,997 (2018)
Cullen L, Brown N, Greenslade J , Donovan P, Coombes I, Cottrell N, Lukin B, Bell A, Doran E, Hughes D.	Emergency & Trauma Centre, Pharmacy Department, Department of Internal Medicine	Prevalence and characteristics of medication-related presentations to the emergency department	Emergency Medicine Foundation Staff Specialist Grant	\$0	\$31,410 (2018)

2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Apple FS, Cullen L , Felker GM, Ginsburg G, Morrow D. Cardiovascular Disease: Impact of Biomarkers, Proteomics, and Genomics. <i>Clin Chem.</i> 2017;63(1):1-4.
Journal Article	Badertscher P, Nestelberger T, de Lavallaz JdF, Than M, Morawiec B, Kaweck D,... Cullen L , et al. Prohormones in the Early Diagnosis of Cardiac Syncope. <i>J Am Heart Assoc.</i> 2017;6(12).
Journal Article	Burke JA, Greenslade J, Chabrowska J, Greenslade K, Jones S, Montana J, Bell A , et al. Two Hour Evaluation and Referral Model for Shorter Turnaround Times in the emergency department. <i>Emerg Med Australas.</i> 2017;29(3):315-23.
Journal Article	Carlton E, Cullen L , Body R. Appropriate Use of High-Sensitivity Cardiac Troponin Levels in Patients With Suspected Acute Myocardial Infarction-Reply. <i>JAMA Cardiol.</i> 2017;2(2):229-30.
Journal Article	Chapman AR, Lee KK, McAllister DA, Cullen L, Greenslade JH, Parsonage W , et al. Association of High-Sensitivity Cardiac Troponin I Concentration With Cardiac Outcomes in Patients With Suspected Acute Coronary Syndrome. <i>JAMA.</i> 2017;318(19):1913-24.
Letter	Chew DP, Scott IA, Cullen L , French JK, Briffa TG, Tideman PA, et al. Corrigendum to 'National Heart Foundation of Australia & Cardiac Society of Australia and New Zealand: Australian Clinical Guidelines for the Management of Acute Coronary Syndromes 2016' <i>Heart Lung and Circulation</i> volume 25, (2016) 898 - 952. <i>Heart Lung Circ.</i> 2017;26(10):1117.
Journal Article	Chu K , Pelecanos A, Brown NJ, Brown AF . The chances that an emergency physician will demonstrate three abdominal aortic aneurysms by ultrasound in the emergency department for credentialing: a statistician's view. <i>Emerg Med Australas.</i> 2017;29(4):464-66.
Journal Article	Chu KH, Howell TE , Keijzers G, Furyk JS, Eley RM, Kinnear FB, Thom O, Mahmoud I, Brown AF . Acute headache presentations to the emergency department: A state-wide cross-sectional study. <i>Acad Emerg Med.</i> 2017;24(1):53-62.
Journal Article	Chu KH, Mahmoud I, Brown AF . What is the chance all your trainees will pass the next Fellowship exam: A statistician's view. <i>Emerg Med Australas.</i> 2017;29(1):113-5.
Journal Article	Crilly J, Greenslade J , Lincoln C, Timms J, Fisher A. Measuring the impact of the working environment on emergency department nurses: A cross-sectional pilot study. <i>Int Emerg Nurs.</i> 2017;31:9-14.
Journal Article	Cullen L, Brown N . Diving into research: A practical guide for emergency medicine trainees. <i>Emerg Med Australas.</i> 2017;29:722-23.
Journal Article	Cullen L, Greenslade JH, Hawkins T, Hammett C, O'Kane S, Ryan K, Parker K, Schluter J, Dalton E, Brown AFT , et al. Improved Assessment of Chest pain Trial (IMPACT): assessing patients with possible acute coronary syndromes. <i>Med J Aust.</i> 2017;207(5):195.
Journal Article	Cullen LA , Mills NL. Point: The Use of Sex-Specific Cutpoints for High-Sensitivity Cardiac Troponin Assays. <i>Clin Chem.</i> 2017;63(1):261-3.
Journal Article	Cullen LA , Mills NL, Mahler S, Body R. Early Rule-Out and Rule-In Strategies for Myocardial Infarction. <i>Clin Chem.</i> 2017;63(1):129-39.
Journal Article	Etaher A, Chew D, Redfern J, Briffa T, Ellis C, Hammett C , Lefkovits J, Elliott J, Cullen L , et al. Suspected ACS Patients Presenting With Myocardial Damage or a Type 2 Myocardial Infarction Have a Similar Late Mortality to Patients With a Type 1 Myocardial Infarction: A Report From the Australian and New Zealand 2012 SNAPSHOT ACS Study. <i>Heart Lung Circ.</i> 2017;26(10):1051-8.
Journal Article	Furyk J, Watt K, Emeto TI, Dalziel S, Bodnar D , Riney K, et al. Review article: Paediatric status epilepticus in the pre-hospital setting: An update. <i>Emerg Med Australas.</i> 2017;29(4):383-90.
Journal Article	Greenslade J, Cullen L . Comparing the No Objective Testing rule to the HEART pathway. <i>Acad Emerg Med.</i> 2017;24(9):1169-70.
Journal Article	Greenslade JH, Hawkins T, Parsonage W, Cullen L . Panic Disorder in Patients Presenting to the Emergency Department with Chest Pain: Prevalence and Presenting Symptoms. <i>Heart Lung Circ.</i> 2017;26(12):1310-6.
Journal Article	Greenslade JH, Nayer R, Parsonage W, Doig S, Young J, Pickering JW, Than M, Hammett C, Cullen L . Validating the Manchester Acute Coronary Syndromes (MACS) and Troponin-only Manchester Acute Coronary Syndromes (T-MACS) rules for the prediction of acute myocardial infarction in patients presenting to the emergency department with chest pain. <i>Emerg Med J.</i> 2017;34(8):517-23.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Hancock DG, Chuang MYA, Bystrom R, Halabi A, Jones R, Horsfall M, Cullen L, Parsonage WA, Chew DP . Rational clinical evaluation of suspected acute coronary syndromes: The value of more information. <i>Emerg Med Australas</i> . 2017;29:664-71.
Journal Article	Huis in't Veld MA, Cullen L , Mahler SA, Backus BE, Dezman ZDW, Mattu A. The fast and the furious: low-risk chest pain and the rapid rule-out protocol. <i>West J Emerg Med</i> . 2017;18(3):474-78.
Journal Article	Jülicher P, Greenslade JH, Parsonage WA, Cullen L . The organisational value of diagnostic strategies using high-sensitivity troponin for patients with possible acute coronary syndromes: a trial-based cost-effectiveness analysis. <i>BMJ Open</i> . 2017;7(6).
Journal Article	Keijzers G, Kelly A-M, Cullen L , Klim S, Graham CA, Craig S, et al. Heart failure in patients presenting with dyspnoea to the emergency department in the Asia Pacific region: an observational study. <i>BMJ Open</i> . 2017;7(2).
Journal Article	Kelly AM, Keijzers G, Klim S, Graham CA, Craig S, Kuan WS,.... Rosengren D , et al. An Observational Study of Dyspnea in Emergency Departments: The Asia, Australia, and New Zealand Dyspnea in Emergency Departments Study (AANZDEM). <i>Acad Emerg Med</i> . 2017;24(3):328-36.
Journal Article	Khanna S, Boyle J, Good N, Bell A , Lind J. Analysing the emergency department patient journey: Discovery of bottlenecks to emergency department patient flow. <i>Emerg Med Australas</i> . 2017;29(1):18-23.
Journal Article	Knowlman T, Greenslade JH, Parsonage W, Hawkins T , Ruane L, Martin P , Prasad S, Lancini D, Cullen L . The association of electrocardiographic abnormalities and acute coronary syndrome in emergency patients with chest pain. <i>Acad Emerg Med</i> . 2017;24(3):344-52.
Journal Article	Lavery T, Greenslade J, Parsonage W, Hawkins T, Dalton E, Hammett C, Cullen L . Factors influencing choice of pre-hospital transportation of patients with potential acute coronary syndrome: An observational study. <i>Emerg Med Australas</i> . 2017;29(2):210-16.
Journal Article	Macdonald SPJ, Williams JM , Shetty A, Bellomo R, Finfer S, Shapiro N, et al. Review article: Sepsis in the emergency department – Part 1: Definitions and outcomes. <i>Emerg Med Australas</i> . 2017;29:619-25.
Journal Article	McQuilten ZK, Zatta AJ, Andrianopoulos N, Aoki N, Stevenson L, Badami KG,... Hurn C , et al. Evaluation of clinical coding data to determine causes of critical bleeding in patients receiving massive transfusion: a bi-national, multicentre, cross-sectional study. <i>Transfus Med</i> . 2017;27(2):114-21.
Journal Article	Miro O, Burbano P, Graham CA, Cone DC, Ducharme J, Brown AF , et al. Analysis of h-index and other bibliometric markers of productivity and repercussion of a selected sample of worldwide emergency medicine researchers. <i>Emerg Med J</i> . 2017;34(3):175-81.
Journal Article	Miro O, Peacock FW, McMurray JJ, Bueno H, Christ M, Maisel AS, Cullen L , et al. European Society of Cardiology - Acute Cardiovascular Care Association position paper on safe discharge of acute heart failure patients from the emergency department. <i>Eur Heart J Acute Cardiovasc Care</i> . 2017;6(4):311-20.
Journal Article	Moore N . A guide to workplace-based assessments for the new FACEM assessor. <i>Emerg Med Australas</i> . 2017;29(1):104-5.
Journal Article	Mueller C, Christ M, Cowie M, Cullen L , Maisel AS, Masip J, et al. European Society of Cardiology-Acute Cardiovascular Care Association Position paper on acute heart failure: A call for interdisciplinary care. <i>European Heart Journal: Acute Cardiovascular Care</i> . 2017;6(1):81-6.
Journal Article	Neumann JT, Sorensen NA, Ojeda F, Schwemer T, Lehmacher J, Gonner S, Parsonage W, Greenslade J, Cullen L , et al. Immediate Rule-out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-sensitivity Troponin I. <i>Clin Chem</i> . 2017;63(1):394-402.
Journal Article	Papendick C, Blyth A, Seshadri A, Edmonds MJR, Briffa T, Cullen L , et al. A randomized trial of a 1-hour troponin T protocol in suspected acute coronary syndromes: Design of the Rapid Assessment of Possible ACS In the emergency Department with high sensitivity Troponin T (RAPID-TnT) study. <i>Am Heart J</i> . 2017;190:25-33.
Journal Article	Parsonage WA, Milburn T, Ashover S, Skoien W, Greenslade JH, McCormack L, Cullen L . Implementing change: evaluating the Accelerated Chest pain Risk Evaluation (ACRE) project. <i>Med J Aust</i> . 2017;207(5):201.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Pickering JW, Than MP, Cullen L , Aldous S, Ter Avest E, Body R,... Greenslade JH ,... Parsonage W , et al. Rapid Rule-out of Acute Myocardial Infarction With a Single High-Sensitivity Cardiac Troponin T Measurement Below the Limit of Detection: A Collaborative Meta-analysis. <i>Ann Intern Med</i> . 2017;166(10):715-24.
Journal Article	Price S, Platz E, Cullen L , Tavazzi G, Christ M, Cowie MR, et al. Expert consensus document: Echocardiography and lung ultrasonography for the assessment and management of acute heart failure. <i>Nat Rev Cardiol</i> . 2017;14(7):427-40.
Journal Article	Ruane L, Greenslade J , Parsonage W , Hawkins T , Hammett C , Lam CSP, Knowlman T, Doig S, Cullen L . Differences in Presentation, Management and Outcomes in Women and Men Presenting to an Emergency Department With Possible Cardiac Chest Pain. <i>Heart Lung Circ</i> . 2017;26(12):1282-90.
Journal Article	Shetty A, MacDonald SP, Williams JM , van Bockxmeer J, de Groot B, Esteve Cuevas LM,... Greenslade J , et al. Lactate \geq 2 mmol/L plus qSOFA improves utility over qSOFA alone in emergency department patients presenting with suspected sepsis. <i>Emerg Med Australas</i> . 2017;29(6):626-34.
Journal Article	Staib A, Sullivan C, Jones M, Griffin B, Bell A , Scott I. The ED-inpatient dashboard: Uniting emergency and inpatient clinicians to improve the efficiency and quality of care for patients requiring emergency admission to hospital. <i>Emerg Med Australas</i> . 2017;29(3):363-66.
Journal Article	Strudwick K, Bell A , Russell T, Martin-Khan M. Developing quality indicators for the care of patients with musculoskeletal injuries in the Emergency Department: Study protocol. <i>BMC Emerg Med</i> . 2017;17(1):14.
Journal Article	Suna J , Hawkins T . Peripheral intravenous cannula in the emergency department. <i>Aust Nurs Midwifery J</i> [Internet]. 2017 August [cited 2017 August 2]; 25(2):[24 p.]. Available from: ISSUU. https://issuu.com/australiannursingfederation/docs/anmj_august_book_issuu .
Journal Article	Tan JWC, Lam CSP, Kasim SS, Aw TC, Abanilla JM, Chang WT,... Cullen L . Asia-Pacific consensus statement on the optimal use of high-sensitivity troponin assays in acute coronary syndromes diagnosis: Focus on hs-TnI. <i>Heart Asia</i> . 2017;9(1):81-7.
Letter	Than MP, Pickering JW, Cullen L , Kavsak PA. Response by Than et al to Letter Regarding Article, "Assessment of the European Society of Cardiology 0-Hour/1-Hour Algorithm to Rule-Out and Rule-In Acute Myocardial Infarction". <i>Circulation</i> . 2017;135(16):e923-e4.
Journal Article	Wildi K, Cullen L , Twerenbold R, Greenslade JH , Parsonage W , Boeddinghaus J, et al. Direct comparison of 2 rule-out strategies for acute myocardial infarction: 2-h accelerated diagnostic protocol vs 2-h algorithm. <i>Clin Chem</i> . 2017;63(7):1227-36.
Journal Article	Williams JM , Greenslade JH , McKenzie JV , Chu K , Brown AF , Lipman J . Systemic Inflammatory Response Syndrome, Quick Sequential Organ Function Assessment, and Organ Dysfunction: Insights From a Prospective Database of ED Patients With Infection. <i>Chest</i> . 2017;151(3):586-96.
Journal Article	Winearls J, Campbell D, Hurn C , Furyk J, Ryan G, Trout M, et al. Fibrinogen in traumatic haemorrhage: A narrative review. <i>Injury</i> . 2017;48(2):230-42.
Journal Article	Winearls J, Wullschleger M, Wake E, Hurn C , Furyk J, Ryan G, et al. Fibrinogen Early In Severe Trauma study (FEISTY): study protocol for a randomised controlled trial. <i>Trials</i> . 2017;18(1):241.

2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	Allihaibi W, Masoud M, Cholette M, Burke J, Karim A, Liu SQ, editors. Optimising the service of emergency department in a hospital. MODSIM2017, 22nd International Congress on Modelling and Simulation; 2017 3-8 December; Hobart, Tasmania: Modelling and Simulation Society of Australia and New Zealand.
Oral	Bell AJ. Hospital 24/7 - Evidence around differential weekend and 'out of hours' outcomes. Australian e-Health Research Colloquium; Brisbane, Queensland. 28 March, 2017.
Oral Invited	Bodnar D. What is the right stuff? Optimising trauma fluid management in the pre-hospital setting. Australian & New Zealand College of Paramedicine Conference; Brisbane, Australia. 24-25 August, 2017.
Oral	Brown AFT. Dabigatran reversal. 13th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. 25-26 May, 2017.
Oral Invited	Christie L, Lukin B, Rogers I. Exploring end of life emergencies and care for the dying elderly. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral Invited	Chu K. Sudden headache: Now what? Emergency Medicine Core Knowledge (EMCORE) conference; Melbourne, Australia. 3-4 June, 2017.
Poster	Chu K, Mahmoud I, Hou XY, Winter C, Jeffree R, Brown N, et al. Incidence and outcomes of subarachnoid haemorrhage in the general and emergency department populations in Queensland from 2010 to 2014. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral	Chu K, Windsor C, Fox J, Howell T, Keijzers G, Eley R, et al. Understanding the variability in the diagnostic approach to subarachnoid haemorrhage: a qualitative study. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral	Cullen L. CREDIT - reducing inappropriate cannulation in ED. Clinical Excellence Showcase (Clinical Excellence Division, Queensland Health); Brisbane, Australia. 1-2 June, 2017.
Oral Invited	Cullen L. Experiences in securing clinical roll-out funding. Emergency Medicine Foundation Acute Care Research & Translation Workshop; Brisbane, Australia. 24 August, 2017.
Oral	Cullen L. Sex differences in chest pain assessment. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral	Cullen L. Clinical redesign: Lessons from implementation of novel chest pain strategies. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral Invited	Cullen L, Aitken P, Crilly J, Keijzers G. Where a PhD can take you in Emergency Medicine. Emergency Medicine Foundation Research Symposium; Brisbane, Australia. 25 August, 2017.
Oral	Cullen L, Hammett C, Younger J. ACS assessment and management in 2017. 13th Annual Queensland Emergency Medicine Autumn Symposium; Brisbane, Australia. 25-26 May, 2017.
Oral Invited	Davis M, Amerena J, Brown AFT, Catanchin A. The ripple effect of atrial fibrillation and anticoagulation. Cardiac Society of Australia and New Zealand 65th Annual Scientific Meeting; Perth, Australia. 10-13 August, 2017.
Oral	Harcourt D, McDonald C. Working together to connect care. Clinical Excellence Showcase (Clinical Excellence Division, Queensland Health); Brisbane, Australia. 1-2 June, 2017.
Poster	Hawkins T, Greenslade J, Cullen L, Williams J, Jensen M, Wynne P, et al. CREDIT: Reducing unnecessary cannulation in the ED. The Health Roundtable Innovations Workshops and Awards; Brisbane. 26 & 27 July, 2017.
Oral	Hughes D, Bell A, Doran E, Coombes I, Lock C. DEM Medicine Wise. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral Invited	Hurn C. ROTEM in the emergency department. The inaugural perioperative patient blood management symposium; Royal Brisbane and Women's Hospital, Australia. 18 February, 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	Kuhn L, Page K, Nedkoff L, Chew D, Ellis C, Cullen L, et al. A Gender-Based Comparison of Management, In-Hospital and Late Outcomes for Patients with Acute Coronary Syndrome in Australia and New Zealand: Results from the SNAPSHOT ACS Audit. Cardiac Society of Australia and New Zealand 65th Annual Scientific Meeting; Perth, Australia. 10-13 August, 2017.
Oral Invited	Lukin B. Future approaches to geriatric care & the EM career trajectory. Emergency Medicine Foundation Research Symposium; Brisbane, Australia. 25 August, 2017.
Oral	Lukin B. Diversity in clinical EM practice. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral	Markwell A. Describing experiences of social workers in a tertiary emergency department. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Oral	Martin-Dines P, Williamson F, Coulthard L, Zheng O, Wall D, Hacking C. The Prevalence of Suboptimal Pelvic Binder Placement Among Trauma Patients Arriving to a Level 1 Trauma Centre. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Poster	McDonald C, Harcourt D. Working together to connect care- A nurse practitioner driven collaborative partnership to manage those that frequently present to a metropolitan emergency department. Australian College of Nurse Practitioners National Conference; Brisbane, Australia. 4-7 Sept, 2017.
Oral	McDonald C, Harcourt D, Cartlidge-Gann L, Fenn M, Lipp T, Burke J, et al. Working together to connect care. The Health Roundtable Innovations Workshops and Awards; Brisbane. 26 & 27 July, 2017.
Oral Invited	Oakley E, Chu K. Writing for publication. Emergency Medicine Foundation Acute Care Research & Translation Workshop; Brisbane, Australia. 24 August, 2017.
Oral	Savage R, Kline T, Bell A, Lock C, Pattullo C, Grayson V. ED OPIOID: Emergency department opioid prescribing intervention to optimise discharge. Australasian College for Emergency Medicine 34th Annual Scientific Meeting; Sydney. 19-23 November, 2017.
Poster	Schmidt M, Greenslade K, Hurn C. Eliminating O Negative blood wastage in the ED. The Health Roundtable Innovations Workshops and Awards; Brisbane. 26 & 27 July, 2017.
Oral Invited	Williams J. New paradigms in critical care: sepsis. Emergency Medicine Foundation Research Symposium; Brisbane, Australia. 25 August, 2017.

OTHER COMMUNICATIONS AND OUTPUTS:

Romeo M, O’Gorman R, Bell A. Reviewing equitable access to healthcare outcomes out of hours and at the weekend (REACH) project: A review of health outcomes for patients admitted out of hours and at the weekend - is there an effect and what are the characteristics and contributing factors? Brisbane: State of Queensland (Metro North

HYPERBARIC MEDICINE SERVICE

The department published a paper defining and validating key recorded baseline values with transcutaneous oximetry measurement, submitted a paper examining the utility of hyperbaric oxygen as an adjunct in the treatment of chronic venous leg ulcers, initiated a national study examining the incidence and treatment protocols associated with oxygen toxicity and has been heavily involved in the initiation of a national and international data registry of outcome measures. In addition a local database program recording key aspects of patient care at the unit is now fully operational.

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 the late effects 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 2017:

A major area of work has continued around the newest indication for treatment with hyperbaric oxygen therapy, Idiopathic Sudden Sensorineural Hearing Loss. The timing and dose of the hyperbaric oxygen intervention is being investigated. The department published a paper defining and validating key recorded baseline values with transcutaneous oximetry measurement, submitted a paper examining the utility of hyperbaric oxygen as an adjunct in the treatment of chronic venous leg ulcers, initiated a national study examining the incidence and treatment protocols associated with oxygen toxicity and has been heavily involved in the initiation of a national and international data registry of outcome measures. In addition a local database program recording key aspects of patient care at the unit is now fully operational. Finally a trial investigating the reliability and accuracy of volume delivery of B-Braun infusion pumps and syringe drivers has been completed and is awaiting publication.

Benefits for clinical practice:

The clinical outcome findings from the chronic venous leg ulcer trial have been incorporated into daily practice via the choosing wisely initiative. The findings from the TCOM study now define baseline values for healthy individuals. The B-Braun pumps and syringe drivers have been validated for use under hyperbaric conditions to 4 ATA. The local database will enable ongoing quality assurance programs and the national data registry will help better inform clinical decision making in the hyperbaric medicine area.

2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Susannah Sherlock Ken Thistlethwaite	David Kramer, Adam Storey	National data registry
Chrisley Goonawardena Ken Thistlethwaite	Susannah Sherlock, David Kramer, Adam Storey	Effectiveness and reliability of B-Braun infusion devices under hyperbaric conditions to 4 ATA
Susannah Sherlock		CNS toxicity, a national audit of practise

2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Pelin Tufekci Biomedical Technology Services	Chrisley Goonawardena	The reliability and precision of B-Braun infusion pumps under hyperbaric conditions to 4 ATA

2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal	Transcutaneous oximetry measurements of the leg: comparing different measuring equipment and establishing values in healthy young adults. Trinks TP , Blake DF, Young DA, Thistlethwaite K , Vangaveti VN5. Diving Hyperb Med. 2017 Jun;47(2):82-87.

2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Invited Speaker	Thistlethwaite K, WORKSHOP – DEVELOPING NATIONALLY AGREED CLINICAL OUTCOMES 25th Annual Scientific Conference in Diving and Hyperbaric Medicine 2017, Adelaide.
Invited Speaker	Sherlock S, Update on CNS Toxicity Audit in Australian and New Zealand Hospitals. 25th Annual Scientific Conference in Diving and Hyperbaric Medicine 2017, Adelaide.
Invited Speaker	Sherlock S, HOTRIX trial: What happened? 25th Annual Scientific Conference in Diving and Hyperbaric Medicine 2017, Adelaide.
Invited Speaker	Sherlock S, Big thinking at small pressures ANZCA ASM 2017 Brisbane.
Invited Speaker	Thistlethwaite K, “Identifying and action upon inappropriate care has misrepresented hyperbaric medicine practice in Australia. Safety and Quality Grand Rounds State wide Presentation QLD 2017.

INTENSIVE CARE SERVICES

Collaboration – that is our message to those wanting to conduct research at any level. Collaboration and partnering with researchers promotes positive research outcomes whilst benefiting the patient outcome. Our research collaborations are aimed to improve the way we provide care to our patients whilst enhancing links with partners all over the world. The projects we undertake in ICU may not directly benefit a patient at the time of enrolment but the information they provide can lead practice in the future. Without collaboration from the research teams, the patients and their families, all levels of the hospital and university staff we would not been able to achieve the outcomes we have so far.

The research environment can be challenging, but the appointment of an Ambassador to Research (Prof Jeffrey Lipman) is a step in the right direction to cement research as a core pillar within Metro North and the RBWH. Collaboration and partnering with researchers promotes positive research outcomes whilst benefiting the patient outcome. Our research collaborations are aimed to improve the way we provide care to our patients whilst enhancing links with our worldwide research partners. The projects we undertake in ICU may not directly benefit a patient at the time of enrolment but the information they provide can lead practice in the future.

The Intensive Care research team collaborates locally, nationally and internationally to find best practice solutions to the care we provide for our patient group.

Joint funding from the RBWH and The University of Queensland saw the establishment and appointment of a research coordinator to enhance our international European research collaborations. With a focus on performing more international studies at a local level, Cheryl Fourie's appointment provides us with greater abilities to our engage with our international partners.

Many studies will culminate in 2017 bringing closure to recruitment. But the research process does not stop there, analysis and write up commences to provide vital information about the outcomes observed throughout the previous (sometimes numerous) years of work. The ICS looks forward to sharing the findings on studies involving the shocked patient (Microscan), antibiotic dosing in trauma patients (ADP-trauma), and plasma markers in patients who experience sub arachnoid haemorrhage (Endothelin) to name just a few.

We also commenced a number of multi centre collaborative ventures and one of the most exciting studies is our micro-sampling endeavour. The concept of using minimal blood samples to determine antibiotic dosing requirements is a potential 'game changer' in treatment. With our university partners, we are asking patients to contribute blood samples, through usual practice methods and the micro-sampling technique to determine if antibiotic levels are similar. If the research is positive, we may have a new method that can be also be adapted into the paediatric population providing essential data with minimal samples required.

Collaboration from the research teams, the patients and their families, and all members of the multi- disciplinary health care team enable the ICS researchers to build on their previous years outcomes towards building a productive and outcome focused research group.



SUPERVISED POST-GRADUATE RESEARCH STUDENTS

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Tavey Dorofaeff	PhD, UQ	How to use antibiotics better in Paediatric Intensive Care using pharmacokinetic principles	Jeffrey Lipman, Jason Roberts , Mark Coulthard
Martha Druery	PhD, UQ	Psychosocial outcomes post severe burn injuries in adults - an exploratory study	Jeffrey Lipman , P. Newcombe, C.Cameron
Caleb Economou	PhD, UQ	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy	Jason Roberts, Jeffrey Lipman, B. Richards
William Franks	MPhil, UQ	Pharmacokinetics of commonly used antimicrobials in lung transplant recipients	Jason Roberts , Mohd Hafiz Abdul Aziz, Menino Os Cotta
Yarmarly Guerra Valero	PhD, UQ	Translating microsampling techniques into better antibiotic dosing for critically ill children	Jason Roberts
Nilesh Kumta	MPhil UQ	Optimising antibiotic dosing for the treatment and prevention of central nervous system infections	Jeffrey Lipman, Jason Roberts
Julie Lee	PhD, UQ	Rotational thromboelastometry (ROTEM) in obstetrics	A van Zundert, Jeremy Cohen , Kirsten Wyssusek
Judith Bellapart	PhD, UQ	Cerebral microcirculation after head injury in bovine models	J. Fraser, R. Boots, J. Paratz
Jayesh Dhanani	PhD, UQ	Study of disposition of inhaled antibiotics	Jason Roberts , J. Fraser
Elissa Milford	PhD, UQ	Effects of commonly used and emerging resuscitation fluids on end organ function in severe trauma	Michael Reade , F. Russell, J-P Tung
Rochelle Ryan	MPhil, UQ	Perioperative cefazolin pharmacokinetics in obesity.	Jason Roberts , A van Zundert, Jeffrey Lipman , K Wyssusek
Eko Setiawan	PhD, UQ	Pharmacokinetics of antimicrobials in hospitalised Indonesian patients	Jason Roberts , MO Cotta, Jeffrey Lipman
Timothy Sladden	PhD, UQ	The role of endothelial glycocalyx breakdown in human lung transplantation and the establishment of a porcine model to study mechanisms and evaluate therapeutic interventions	D Chambers, S Yerkovich, Jeffrey Lipman , J Hill
Annette Sultana	PhD, UQ	Investigating underlying mechanisms of transfusion related acute lung injury	J-P Tung, M Dean, Michael Reade , R Fowler
Kersi Taraporawella	PhD, UQ	Teaching Psycho-Motor Skills in Anaesthesia	A van Zundert, Jeffrey Lipman
Lisa Wang	MPhil, UQ	Plasma and tissue pharmacokinetics of lincomycin in patients with burn wound infection	M Muller, Jason Roberts , Jeffrey Lipman
Julian Williams	PhD, UQ	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection	Jeffrey Lipman , D Paterson
Paul Williams	MPhil, UQ	Validation of antibiotics dosing guidelines in critically ill patients	Jason Roberts , MO Cotta

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Gloria Wong	PhD, UQ	A pharmacokinetic-pharmacodynamic evaluation of beta-lactam antibiotics TDM-guided dose adjustment in critically ill patients	Jason Roberts , JA Coombes, A Hale, PI Pillans
Andrew Burke	MPhil, UQ	A study of the pharmacokinetic properties of mycobacterial antibiotics in cystic fibrosis	Jason Roberts , RM Thomson, S Bell, DJ Smith
Vesa Cheng	MPhil, UQ	Dose optimisation of anti-infective drugs in extracorporeal membrane oxygenation (ECMO)	Jason Roberts
Andy Lo	MPhil, UQ	Documenting pharmacy clinical interventions using portable devices and adaptation of a published medication error model to an Australian tertiary centre	Jason Roberts , JA Coombes, A Hale, PI Pillans
Saiyuri Naicker	PhD, UQ	The microbiological effects of antimicrobial deescalation: An in-vitro evaluation in a dynamicinfection model	Jason Roberts , F Sime
Chandra Sumi	PhD, UQ	Optimization of alternative antibiotic dosing regimens for maximal antibacterial activity and suppression of emergence of resistance	Jason Roberts , F Sime
Christopher Anstey	PhD UQ	Extramitochondrial metabolism of citrate metabolism in the critically ill	B Venkatesh, Jason Roberts
Hajar Alasmari	PhD, Queensland University of Technology (2012-2017)	Examining Intensive Care Nurses' Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia	Prof Ann Bonner, Prof Fiona Coyer
Sonia Hines	PhD, ueensland University of Technology	An educational intervention to improve nurses' research literacy	Prof Joe Ramsbotham, Prof Fiona Coyer
Sandra Johnston	PhD, ueensland University of Technology (2013-2020)	Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education	Prof Fiona Coyer , Prof Robyn Nash
Samantha Yeates	Masters of Applied Science (Research), Queensland University of Technology(2017 only – withdrew)	Exploring tissue perfusion and healing trajectory of medical-device related pressure injuries	Prof Fiona Coyer , Kathleen Finlayson, Jill Campbell
Lizanne Dagleish	PhD, ueensland University of Technology (2017-2020)	The role of microcirculatory dysfunction and skin breakdown in the critically ill.	Prof Fiona Coyer , Dr Jill Campbell , Dr Kathy Finlayson, Prof Andra VanZundert
Adrianna Hada	PhD, ueensland University of Technology (2015-2021)	Transforming patient outcomes through improved and effective nursing clinical handover	Prof Fiona Coyer , Dr Leanne Jack
Paul Jarrett	PhD, ueensland University of Technology (2015-2021)	Administration of antibiotics in the intensive care unit	Prof Fiona Coyer , Assoc Prof Martin Christensen, Prof Jason Roberts
Priscilla Pather	Masters of Applied Science (Research), Queensland University of Technology (2014-2017)	The incidence and measurement of incontinence associated dermatitis in the intensive care environment	Prof Fiona Coyer , Dr Leanne Jack
Hannauh Rheault	Doctor Health Science, Queensland University of Technology (2014-2019)	Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: A mixed method study	Prof Ann Bonner, Prof Fiona Coyer

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Leanne Stone	Doctor Health Science, Queensland University of Technology (2014-2019)	Comparing “Magnet” attributes in nursing between Australia and the United States	Prof Alexandra McCarthy, Prof Fiona Coyer
Bryan Gregory	Masters of Applied Science (Research), Queensland University of Technology (2016-2019)	The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury	Prof Fiona Coyer , Prof Jason Roberts, Prof Ann Bonner
Jessica Ingleman	Masters of Applied Science (Research), Queensland University of Technology (2016-2019)	Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)	Prof Fiona Coyer , Dr Christina Parker
David McIntyre	Masters of Applied Science (Research), Queensland University of Technology (2016-2019)	Developing and validating haemodialysis nurse-sensitive indicators	Prof Ann Bonner , Prof Fiona Coyer

2017 RESEARCH POSITIONS: COORDINATORS, FELLOW, ADJUNCT AND HONORARY POSITIONS

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Jason Roberts	NHMRC Practitioner Fellowship		UQ (2009- current)
Jeffrey Lipman	Conjoint		UQ (1999 - current)
Karen Ousey	Adjunct Associate Professor	Skin perfusion and microcirculation in critically ill patients	QUT (2015-2017)
Jessica Ingleman	Project Manager	The effect of time spent in a position on critically ill patient’s skin: the EXTREME pressure 2 study. Extreme pressure study: exploring pressures, tissue reperfusion and body positioning – a pilot evaluation among critically ill patients.	QUT (2014-2018)
Jane-Louise Cook	Project Manager	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a randomised controlled trial. Translating evidenced-based pressure injury prevention into the intensive care environment: the SUSTAIN trial	QUT (2014-2018)
Anna Doubrovsky	Project Manager	Efficacy of Incontinence-Associated Dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial.	QUT (2016-2018)

2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Os Cotta	Os Cotta/Jason Roberts/ Jeffrey Lipman	Benzylpenicillin HREC/15/QRBW/31 Optimising benzylpenicillin dosing for critically ill patients with severe pneumonia
Jeffrey Lipman/Joel Dulhunty/Jason Roberts/O Cotta	Jeffrey Lipman/ Marianne Kirrane	BLING III A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients
Os Cotta/ Jason Roberts	Jeffrey Lipman/ Jayesh Dhanani	Ceftriaxone HREC/16/QRBW/101 Optimising ceftriaxone dosing for critically ill patients with severe pneumonia
Jason Roberts	Jeffrey Lipman	Ceftolozane/Tazobactam HREC/16/QRBW/211 An Observational Pharmacokinetic study of Ceftolozane-Tazobactam in Intensive Care Unit in patients with and without continuous renal replacement therapy.
Jason Roberts	Jeffrey Lipman	Ceftolozane/Tazobactam HREC/17/QRBW/117 "A prospective observational pharmacokinetic evaluation of the plasma and cerebrospinal fluid concentrations of a single dose ceftolozane/tazobactam in infected critically ill patients with an indwelling external ventricular drain
Michael Reade	Anthony Holley/Renae Deans	CLIP HREC/13/QRBW/3 CLIP Cryopreserved vs. Liquid Platelets for Surgical Bleeding A pilot multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding.
Judith Bellapart	Judith Bellapart	The prognostication value of plasma Endothelin-1 in sub arachnoid Haemorrhage ENDO 2 HREC/14/QRBW/4
Steve O'Donoghue	Steve O'Donoghue/Jason Pincus/George Pang	HREC/16/QRBW/263 GUPPIE An Observational Study to assess aspiration risk using gastric ultrasound in ventilated ICU patients prior to extubation
Os Cotta	Jeffrey Lipman	LEVETY HREC/16/QRBW/154 Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage
Anthony Holley	Anthony Holley	Microscan HREC/08/QRBW/112 Assessment of the Microcirculation in Shocked Critically Unwell Patients during the First 24 hours of Resuscitation
Steve Wallis/Jeffrey Lipman/Parker	Jeffrey Lipman	Micro sampling HREC/15/QRBW/249 Validation of Microsampling versus Traditional Blood Sampling for Antibiotic Pharmacokinetics
Nilesh Kumta/ Jason Roberts	Jeffrey Lipman	OASES EVD sampling for antibiotics HREC/16/QRBW/157 The Pharmacokinetics of Ceftriaxone, Meropenem, Piperacillin-Tazobactam and Vancomycin in the Cerebrospinal Fluid of Critically Ill Patients with Uninflamed Meninges
MSD/Jason Roberts	Jeffrey Lipman	Posaconazole(HREC/16/QRBW/377) Single dose population pharmacokinetics of intravenous posaconazole in critically ill patients
Kerina Denny	Jeffrey Lipman / Kerina Denny	RESIST HREC/15/QRBW/28 Recognising Sepsis in SIRS Trial (RESIST)
Claire Roger/ Jason Roberts	Jeffrey Lipman / Jason Roberts	SAFE -ICU (HREC/16/QRBW/292) Screening Anti-Fungal Exposure in Intensive Care Units The SAFE-ICU Study An international, multi-centre prospective pharmacokinetic evaluation of antifungal drug exposure in intensive care unit patients receiving conventional dosing regimens

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Jeremy Cohen	Jeremy Cohen	A Comparison of the Total and Free Cortisol Response to a Standard Short Synacthen Test in Patients with Traumatic Brain Injury TBI Study HREC/14/QRBW/7
Gladness Nethathe	Gladness Nethathe	The free cortisol response to synacthen and other aspects of endocrine physiology in healthy participants

2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Jeremy Cohen/ Jeffrey Lipman	Jeremy Cohen/ Jeffrey Lipman	ADjunctive coRtICosteroid trEatment iN criticAlly iLL patients with septic shock ADRENAL HREC/11/QPAH/619
Andrew Udy / Jason Roberts	Jeffrey Lipman / Jason Roberts	ADP Trauma HREC/15/QRBW/14 A randomised controlled clinical trial of Augmented Dosing of Piperacillin-tazobactam in TRAUMA patients with suspected or confirmed infection
Claire Roger	Jason Roberts	AMIINO III HREC/16/QRBW/205 An international survey on aminoglycoside practices in critically ill patients: AMINO III survey
Asahi Kasei Pharma America Corp	John Gowardman/ Jeffrey Lipman	ARTISAN 123 HREC/13/QRBW/14 A randomized, double-blind, placebo-controlled, phase 3 study to assess the safety and efficiency of ART-123 in subjects with severe sepsis and coagulopathy
David Paterson/S Schlebusch	Jeffrey Lipman / David Paterson	Assessing the effects of antibiotic choice on gut microbiota of ICU pts - a metagenomic approach HREC/16/QRBW/463
K Ho	Anthony Holley/ Jeffrey Lipman	Da-Vinci HREC/15/QRBW/437 Detailed assessment of risks and benefits of inferior vena cava filters on patients with complicated injuries (the da Vinci Trial)
ESCIMD	Os Cotta/ Cheryl Fourie	Determnants of Antimicrobial use aNd de-escalAtion in critical care (DIANA study)
J Winearls	DEM/ICU	Fibrinogen Concentrate vs. Cryoprecipitate in Traumatic Haemorrhage: A Pilot Randomised Controlled Trial FEISy
Monash University	Michael Reade	Pre-hospital Anti-fibrinolytics for Traumatic Coagulopathy and Haemorrhage (The PATCH Study) A multi-centre randomised, double-blind, placebo-controlled trial of pre-hospital treatment with tranexamic acid for severely injured patients at risk of acute traumatic coagulopathy. Patch Trauma HREC/14/QRBW/501
The George Institute	Jeffrey Lipman	A multi-centre, blinded, randomised, controlled trial (RCT) to determine whether fluid resuscitation and therapy with a “balanced” crystalloid solution (Plasma-Lyte 148®) decreases 90-day mortality in critically ill patients requiring fluid resuscitation when compared to the same treatment with 0.9% sodium chloride (saline) PLUS (HREC/16/HAWKE/126)

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Despoina Kourenti UQ	Jeffrey Lipman	Pneumo-INSPIRE HREC/15/QRBW/35 International Study on Nosocomial Pneumonia in Intensive Care: An international multi-centre prospective observational cohort study of nosocomial pneumonia in intensive care units
Andrew Udy/ Jeremy Cohen	Jeremy Cohen	PROMOTE-aSAH (HERC/16/QRBW/204) A prospective multicentre observational study of aneurysmal subarachnoid haemorrhage in Australasian intensive care The PROMOTE-SAH Study
R Panwar	Steve O'Donoghue	REACT-SHOCK HREC/13/HNE/263 Relative hypotension and acute kidney injury in patients with shock: a prospective multicentre cohort study.
Monash University	Steve O'Donoghue/ Michael Reade	SPICE III HREC/12/AUSTIN/108 Early Goal Directed Sedation vs. Standard Care Sedation Practices in Intensive Care Evaluation: SPICE III: A Prospective Multicentre Randomised Controlled Trial of Early Goal Directed Sedation Compared with Standard Care in Mechanically Ventilated Patients in Intensive Care
Sunshine Coast University Hospital	Michael Reade	ALL SPICE (HREC/16/QPCH/141) Allostasis and Sedation Practices in Intensive Care Evaluation (ALL-SPICE)
Monash University	Jeffrey Lipman	TARGET (HREC/14/RAH/565) TARGET NUTRITION STUDY -The Augmented versus Routine approach to Giving Energy Trial: A randomised controlled trial
W Thomas/ Jeffrey Lipman The University of Qld	Jeffrey Lipman	TASTE HREC/15/QRBW/372 A Potential Taste Receptor Association with Myocardial Depression Susceptibility in Treated sEpsis
A Charleton NSW Health	Neil Widdicombe	Validation of a 10 minute spontaneous breathing trial to predict time to circulatory death in organ donation candidates
Erasmie University Hospital Belgium	Cheryl Fourie/ Jeffrey Lipman	EPPICS III Point Prevalence review
Jennifer Paratz (GU)	Comans T, Geoff Mitchell Robert Boots (intensive Care Services) Prof Fiona Coyer (Intensive Care Services) Peter Thomas (Physiotherapy)	Improving outcome in sepsis
Neha Kumta (UQ)	Prof Fiona Coyer (Intensive Care Services) Lianne Dalgleish	Audit of peri-operative factors associated with pressure injury development in post-surgical ICU patients – (PREDICT)
Fiona Coyer	Amanda Vann , Jane-Louise Cook Nicola Barker-Gregory	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDY study, a pilot randomised controlled trial.
Fiona Coyer	Anthony Holley Peter Thomas Christina Parker Anna Doubrovsky Chris Edwards Jessica Ingleman	The effect of time spent in a position on critically ill patient's skin: the EXTREME pressure 2 study.
Fiona Coyer	Jill Campbell Amanda Vann Greg McNamara Jane-Louise Cook	Translating evidenced-based pressure injury prevention into the intensive care environment; the SUSTAIN study.

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Fiona Coyer	Jill Campbell Anna Doubrovsky	Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial
Fiona Coyer	Kerri Coleman Alison Mudge Helen Edwards Patricia Sinasac Kathleen Finlayson C Parker Jessica Schluter	Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model – Protecting Skin Integrity (PSI)
Fiona Coyer	Anne Gardner Glenn Gardner Helen Gosby	Educating for health service reform: clinical learning, governance, and capability
Anna Grant	Fiona Coyer	Contextual barriers and facilitators to research utilisation and evidence based practice in intensive care – The COFACTOR Study
Veeranjit Singh	Prof Fiona Coyer Johnathan Collins	Audit of pressure injury development in critically ill patients with C-spine precautions – (InSPECT)

2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
J Lipman	Research Ambassador RBWH	RBWH Research Symposium
J Lipman	Researcher of the Year 2017	
M Reade	DMedSc Doctor of Medical Science, University of Sydney, Australia	
M Reade	FCCM Fellow, American College of Critical Care Medicine	
M Reade	Multiple Tour Indicator '3' to the Australian Operational Service Medal (Greater Middle East Area of Operations)	
M Reade	25 year clasp to the Australian Defence Long Service Medal	
Fiona Coyer	EPUAP and 3M Pressure Ulcer Prevention Innovation conference presentation award	European Pressure Ulcer Advisory Panel conference Belfast, September 2017

2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Nilesh Kumta	RBWH Intensive Care Services/ The University of Qld	OACES	Intensive Care Foundation	\$35000	2017
Jeffrey Lipman/ Joel Dulhunty/ Jason Roberts/ Os Cotta	RBWH Intensive Care Services	BLING III	NHMRC	\$3.2 M	2017-2021
Paterson D, Jason Roberts, Jeffrey Lipman , Harris P, Whiley D, Beatson S, Schembri M	RBWH Intensive Care Services	Illumina MiniSeq instrument (plus reagents / Nextera XT DNA Library preparing kits) and computing upgrade	Faculty of Medicine's Research Equipment and Infrastructure Investment scheme	\$84,950	2017-2018
Eisen D, McEwen P, Jason Roberts , Wallis S, Mulvey P	RBWH Intensive Care Services	Measuring aspirin penetration into synovial fluid to assess its potential for prevention of prosthetic joint infection	Townsville Hospital and Health Service FOR RESEARCH GRANT FUNDING	\$39,450	2018
Tängdén, T, Huttner A, Brüggemann R, Giske C, Jason Roberts	RBWH Intensive Care Services	SHORT duration, TDM-guided therapy in hospitalised patients to prevent Emergence of Resistance	JPI-EC-AMR Joint Transnational Call	€ 900 000	
Liu D, Jason Roberts	RBWH Intensive Care Services	Pharmacokinetics of transdermal nicotine replacement therapy patches in critically ill patients with hepatic failure	Avant Mutual Group Ltd Avant Doctor in Training Research Scholarship Grant: Advancement in Medicine category	\$12,500	2017-2018
Kumta N, Cheryl Fourie, Jeffrey Lipman, Jason Roberts , Cotta MO	RBWH Intensive Care Services	Optimising antibiotic CSF exposures for the treatment of central nervous system infections	RBWH & RBWH Foundation	\$5000	2018
Kumta N, Jeffrey Lipman, Jason Roberts , Joynt G, Wong W-T, Cotta MO	RBWH Intensive Care Services	Optimising Antibiotic CSF Exposures for the Treatment of Central Nervous Sytem Infections	Intensive Care Foundation	\$35,000	2018
J , Parker S, Dorofaeff T	RBWH Intensive Care Services	Advanced treatment of infectious diseases for critically ill children, through innovation in blood sampling	2018 Children's Hospital Foundation Preclinical and Clinical Research Grant RPC04918	\$295,445	2018

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Jeremy Cohen , Liu D, Jason Roberts , Amelia Livermore , Reza N, Udy A.	RBWH Intensive Care Services	Plasma nicotine concentrations in critically ill patients receiving transdermal nicotine replacement therapy (nrt)	Intensive Care Foundation	\$40,000	2018
Scuderi C, John G, Parker S, Healy H, Staatz C, Jason Roberts	RBWH Intensive Care Services	Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant recipients	RBWH & RBWH Foundation	\$40,000	2018
Jason Roberts	RBWH Intensive Care Services	Assay development for therapeutic drug monitoring of ceftolozane-tazobactam	Merck, Sharpe & Dohme	\$12,100	2017-2018
Jason Roberts	RBWH Intensive Care Services	Lipopeptide antibiotics for XDR Gram-negative infections	Blaskovich M, Cooper M, Hansford K, Roberts JA, Paterson DL	\$994,897.15	2018-20
Fiona Coyer , Jane-Louise Cook, Amanda Vann , Nicola Barker-Gregory	Intensive Care Services Department	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a pilot randomised controlled trial.	Wound Management Innovation Centre for Research Collaboration	\$51,509	\$299,000 (2015-2018)
Fiona Coyer , Edwards H, Coleman K, Sinasac P, Finlayson K, Parker C, Schluter J, Mudge A.	Intensive Care Services Department	Reducing the prevalence and severity of wounds through implementation of the Champions for Skin Integrity Model – Protecting Skin Integrity (PSI).	Health Innovation, Investment and Research Office (HIRRO), Queensland Health.	\$120,000	\$120,000 (2017)
Fiona Coyer , Campbell J , Doubrovsky, A.	Intensive Care Services Department	Efficacy of Incontinence-Associated Dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial.		\$158,562	\$158,562 (2017-2018)

2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Udy AA, Jarrett P, Lassig-Smith M, Stuart J, Starr T , Dunlop R, Deans R, Roberts JA , Senthuran S, Boots R, Bisht K, Bulmer AC, Lipman J. Augmented Renal Clearance in Traumatic Brain Injury: A Single-Center Observational Study of Atrial Natriuretic Peptide, Cardiac Output, and Creatinine Clearance. <i>J Neurotrauma</i> . 2017 Jan 1;34(1):137-144.
Journal Article	Sime FB, Johnson A, Whalley S, Santoyo-Castelazo A, Montgomery AB, Walters KA, Lipman J , Hope WW, Roberts JA . Pharmacodynamics of aerosolized fosfomycin and amikacin against resistant clinical isolates of <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> in a hollow-fiber infection model: Experimental Basis for Combination Therapy. <i>Antimicrob Agents Chemother</i> . 2016 Dec 27;61(1).
Journal Article	Abdul-Aziz MH, Lipman J, Roberts JA . Antibiotic dosing for multidrug-resistant pathogen pneumonia. <i>Curr Opin Infect Dis</i> . 2017 Apr;30(2):231-239.
Journal Article	Roger C, Wallis SC, Muller L, Saissi G, Lipman J , Brüggemann RJ, Lefrant JY, Roberts JA . Caspofungin Population Pharmacokinetics in Critically Ill Patients Undergoing Continuous Venovenous Haemofiltration or Haemodiafiltration. <i>Clin Pharmacokinet</i> . 2017 Sep;56(9):1057-1068.
Journal Article	Pretorius CJ, Reade MC , Warnholtz C, McWhinney B, Phua MM, Lipman J, Ungerer JPJ. Pyroglutamate (5-oxoproline) measured with hydrophilic interaction chromatography (HILIC) tandem mass spectrometry in acutely ill patients. <i>Clin Chim Acta</i> . 2017 Mar;466:72-77.
Journal Article	Roberts JA , Kumar A, Lipman J . Right Dose, Right Now: Customized Drug Dosing in the Critically Ill. <i>Crit Care Med</i> . 2017 Feb;45(2):331-336.
Journal Article	Silbert BI, Ho KM, Lipman J, Roberts JA , Corcoran TB, Morgan DJ, Pavey W, Mas E, Barden AE, Mori TA. Does Furosemide Increase Oxidative Stress in Acute Kidney Injury? <i>Antioxid Redox Signal</i> . 2017 Feb 10;26(5):221-226.
Journal Article	Kollef MH, Bassetti M, Francois B, Burnham J, Dimopoulos G, Garnacho-Montero J, Lipman J , Luyt CE, Nicolau DP, Postma MJ, Torres A, Welte T, Wunderink RG. The intensive care medicine research agenda on multidrug-resistant bacteria, antibiotics, and stewardship. <i>Intensive Care Med</i> . 2017 Sep;43(9):1187-1197.
Journal Article	Winearls J, Campbell D, Hurn C, Furyk J, Ryan G, Trout M, Walsham J, Holley A , Shuttleworth M, Dyer W, Keijzers G, Presneill J, Fraser JF, Wullschlegel M. Fibrinogen in traumatic haemorrhage: A narrative review. <i>Injury</i> . 2017 Feb;48(2):230-242.
Journal Article	Alobaid AS, Wallis SC, Jarrett P, Starr T, Stuart J, Lassig-Smith M , Mejia JL, Roberts MS, Roger C, Udy AA, Lipman J, Roberts JA . Population Pharmacokinetics of Piperacillin in Nonobese, Obese, and Morbidly Obese Critically Ill Patients. <i>Antimicrob Agents Chemother</i> . 2017 Feb 23;61(3).
Journal Article	Paruk F, Sime FB, Lipman J, Roberts JA . Dosing antibiotic prophylaxis during cardiopulmonary bypass—a higher level of complexity? A structured review. <i>Int J Antimicrob Agents</i> . 2017 Apr;49(4):395-402.
Journal Article	Solé-Lleonart C, Rouby JJ, Blot S, Poulakou G, Chastre J, Palmer LB, Bassetti M, Luyt CE, Pereira JM, Riera J, Felton T, Dhanani J , Welte T, Garcia-Alamino JM, Roberts JA , Rello J. Nebulization of Antimicrobial Agents in Invasively Mechanically Ventilated Adults: A Systematic Review and Meta-analysis. <i>Anesthesiology</i> . 2017 May;126(5):890-908.
Journal Article	Williams JM, Greenslade JH, McKenzie JV, Chu K, Brown AFT, Lipman J . Systemic Inflammatory Response Syndrome, Quick Sequential Organ Function Assessment, and Organ Dysfunction: Insights From a Prospective Database of ED Patients With Infection. <i>Chest</i> . 2017 Mar;151(3):586-596.
Journal Article	Udy AA, Dulhunty JM, Roberts JA , Davis JS, Webb SAR, Bellomo R, Gomersall C, Shirwadkar C, Eastwood GM, Myburgh J, Paterson DL, Starr T , Paul SK, Lipman J . BLING-II Investigators; ANZICS Clinical Trials Group. Association between augmented renal clearance and clinical outcomes in patients receiving β -lactam antibiotic therapy by continuous or intermittent infusion: a nested cohort study of the BLING-II randomised, placebo-controlled, clinical trial. <i>Int J Antimicrob Agents</i> . 2017 May;49(5):624-630.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Economou CJP, Wong G, McWhinney B, Ungerer JPJ, Lipman J, Roberts JA . Impact of β -lactam antibiotic therapeutic drug monitoring on dose adjustments in critically ill patients undergoing continuous renal replacement therapy. <i>Int J Antimicrob Agents</i> . 2017 May;49(5):589-594.
Journal Article	Holley A , Cook A, Lipman J . Burn Patients and Blood Product Transfusion Practice: Time for a Consensus? Annual Update in Intensive Care and Emergency Medicine 2017 pp 359-371.
Journal Article	Roberts JA , Lefrant JY, Lipman J . What's new in pharmacokinetics of antimicrobials in AKI and RRT? <i>Intensive Care Med</i> . 2017 Jun;43(6):904-906.
Journal Article	de Prost N, Lipman J , Mimoz O. Therapeutic targets in necrotizing soft tissue infections. <i>Intensive Care Med</i> . 2017 Nov;43(11):1717-1719.
Journal Article	Bergen PJ, Bulitta JB, Kirkpatrick CMJ, Rogers KE, McGregor MJ, Wallis SC, Paterson DL, Nation RL, Lipman J, Roberts JA , Landersdorfer CB. Substantial Impact of Altered Pharmacokinetics in Critically Ill Patients on the Antibacterial Effects of Meropenem Evaluated via the Dynamic Hollow-Fiber Infection Model. <i>Antimicrob Agents Chemother</i> . 2017 Apr 24;61(5).
Journal Article	Naik BI, Roger C, Ikeda K, Todorovic MS, Wallis SC, Lipman J, Roberts JA . Comparative total and unbound pharmacokinetics of ceftazidime administered by bolus versus continuous infusion in patients undergoing major surgery: a randomized controlled trial. <i>Br J Anaesth</i> . 2017 Jun 1;118(6):876-882.
Journal Article	Druery M , Newcombe PA, Cameron CM, Lipman J . Factors influencing psychological, social and health outcomes after major burn injuries in adults: cohort study protocol. <i>BMJ Open</i> . 2017 Jun 17;7(6):e017545. doi: 10.1136/bmjopen-2017-017545.
Journal Article	Parker SL, Guerra Valero YC, Roberts DM, Lipman J, Roberts JA , Wallis SC. Determination of Cefalothin and Cefazolin in Human Plasma, Urine and Peritoneal Dialysate by UHPLC-MS/MS: application to a pilot pharmacokinetic study in humans. <i>Biomed Chromatogr</i> . 2016 Jun;30(6):872-9.
Journal Article	Badenes R, Oddo M, Suarez JI, Antonelli M, Lipman J , Citerio G, Taccone FS. Hemoglobin concentrations and RBC transfusion thresholds in patients with acute brain injury: an international survey. <i>Crit Care</i> . 2017 Jun 17;21(1):159.
Journal Article	Sulaiman H, Abdul-Aziz MH, Roberts JA . Pharmacokinetic/Pharmacodynamics-Optimized Antimicrobial Therapy in Patients with Hospital-Acquired Pneumonia/Ventilator-Associated Pneumonia. <i>Semin Respir Crit Care Med</i> . 2017 Jun;38(3):271-286.
Journal Article	Tängdén T, Ramos Martín V, Felton TW, Nielsen EI, Marchand S, Brüggemann RJ, Bulitta JB, Bassetti M, Theuretzbacher U, Tsuji BT, Wareham DW, Friberg LE, De Waele JJ, Tam VH, Roberts JA ; Infection Section for the European Society of Intensive Care Medicine, the Pharmacokinetics and Pharmacodynamics Study Group of the European Society of Clinical Microbiology and Infectious Diseases, the International Society of Anti-Infective Pharmacology and the Critically Ill Patients Study Group of European Society of Clinical Microbiology and Infectious Diseases. The role of infection models and PK/PD modelling for optimising care of critically ill patients with severe infections. <i>Intensive Care Med</i> . 2017 Jul;43(7):1021-1032.
Journal Article	PRISM Investigators, Rowan KM, Angus DC, Bailey M, Barnato AE, Bellomo R, Canter RR, Coats TJ, Delaney A, Gimbel E, Grieve RD, Harrison DA, Higgins AM, Howe B, Huang DT, Kellum JA, Mouncey PR, Music E, Peake SL, Pike F, Reade MC , Sadique MZ, Singer M, Yealy DM. Early, Goal-Directed Therapy for Septic Shock - A Patient-Level Meta-Analysis. <i>N Engl J Med</i> . 2017 Jun 8;376(23):2223-2234.
Journal Article	Flint A, Aubron C, Bailey M, Bellomo R, Pilcher D, Cheng AC, Hegarty C, Reade MC , McQuilten Z. Duration of platelet storage and outcomes of critically ill patients. <i>Transfusion</i> . 2017 Mar;57(3):599-605.
Journal Article	Aubron C, Flint AW, Bailey M, Pilcher D, Cheng AC, Hegarty C, Martinelli A, Reade MC , Bellomo R, McQuilten Z. Is platelet transfusion associated with hospital-acquired infections in critically ill patients? <i>Crit Care</i> . 2017 Jan 6;21(1):2. doi: 10.1186/s13054-016-1593-x.
Journal Article	Jones D, Hodgson CL, Shehabi Y, Reade MC . Reducing confusion about post-cardiotomy delirium. <i>Crit Care Resusc</i> . 2017 Mar;19(1):5-8.

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Journal Article	Winearls J, Reade M , Miles H, Bulmer A, Campbell D, Görlinger K, Fraser JF. Targeted Coagulation Management in Severe Trauma: The Controversies and the Evidence. <i>Anesth Analg</i> . 2016 Oct;123(4):910-24.
Journal Article	Reade MC . Dexmedetomidine: what next? <i>Ann Transl Med</i> . 2016 Jun;4(12):247. doi: 10.21037/atm.2016.06.10.
Journal Article	Reade MC . Low dose dexmedetomidine for the prophylaxis of perioperative ICU delirium-how much evidence is enough? <i>J Thorac Dis</i> . 2016 Nov;8(11):3020-3023.
Journal Article	Udy AA, Schweikert S, Anstey J, Anstey M, Cohen J , Flower O, Saxby E, Poll AV, Delaney A. Critical care management of aneurysmal subarachnoid haemorrhage in Australia and New Zealand: what are we doing, and where to from here? <i>Crit Care Resusc</i> . 2017 Jun;19(2):103-109.
Journal Article	Reade MC , Bass F, Howe B, Seppelt I, Shehabi Y. Considerations for co-enrolment in randomised controlled effectiveness trials in critical care: the SPICE-8 co-enrolment guidelines. <i>Crit Care Resusc</i> . 2017 Jun;19(2):110-114.
Journal Article	Billot L, Venkatesh B, Myburgh J, Finfer S, Cohen J , Webb S, McArthur C, Joyce C, Bellomo R, Rhodes A, Perner A, Arabi Y, Rajbhandari D, Glass P, Thompson K, Correa M, Harward M. Statistical analysis plan for the Adjunctive Corticosteroid Treatment in Critically Ill Patients with Septic Shock (ADRENAL) trial. <i>Crit Care Resusc</i> . 2017 Jun;19(2):183-191.
Journal Article	Rello J, Solé-Lleonart C, Rouby JJ, Chastre J, Blot S, Poulakou G, Luyt CE, Riera J, Palmer LB, Pereira JM, Felton T, Dhanani J , Bassetti M, Welte T, Roberts JA . Use of nebulized antimicrobials for the treatment of respiratory infections in invasively mechanically ventilated adults: a position paper from the European Society of Clinical Microbiology and Infectious Diseases. <i>Clin Microbiol Infect</i> . 2017 Sep; 23(9):629-639.
Journal Article	Parker SL, Guerra Valero YC, Lipman J , Weiss S, Smith C, Russell L, Smith P, Roberts JA , Wallis SC. A validated UHPLC-MS/MS method for the measurement of riluzole in plasma and myocardial tissue samples. <i>Biomed Chromatogr</i> . 2017 Dec;31(12). doi: 10.1002/bmc.4030..
Journal Article	Gatica-Andrades M, Vagenas D, Kling J, Nguyen TTK, Benham H, Thomas R, Körner H, Venkatesh B, Cohen J , Blumenthal A. WNT ligands contribute to the immune response during septic shock and amplify endotoxemia-driven inflammation in mice. <i>Blood Adv</i> . 2017 Jul 10;1(16):1274-1286.
Journal Article	Ho KM, Rao S, Honeybul S, Zellweger R, Wibrow B, Lipman J , Holley A , Kop A, Geelhoed E, Corcoran T. Detailed assessment of benefits and risks of retrievable inferior vena cava filters on patients with complicated injuries: the da Vinci multicentre randomised controlled trial study protocol. <i>BMJ Open</i> . 2017 Jul 12;7(7):e016747.
Journal Article	Xie J, Roberts JA , Alobaid AS, Roger C, Wang Y, Yang Q, Sun J, Dong H, Wang X, Xing J, Lipman J , Dong Y Population Pharmacokinetics of Tigecycline in Critically Ill Patients with Severe Infections. <i>Antimicrob Agents Chemother</i> . 2017 Jul 25;61(8). pii: e00345-17. doi: 10.1128/AAC.00345-17.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Sartelli M, Labricciosa FM, Barbadoro P, Pagani L, Ansaloni L, Brink AJ, Carlet J, Khanna A, Chichom-Mefire A, Coccolini F, Di Saverio S, May AK, Viale P, Watkins RR, Scudeller L, Abbo LM, Abu-Zidan FM, Adesunkanmi AK, Al-Dahir S, Al-Hasan MN, Alis H, Alves C, Araujo da Silva AR, Augustin G, Bala M, Barie PS, Beltrán MA, Bhangu A, Bouchra B, Brecher SM, Caínzos MA, Camacho-Ortiz A, Catani M, Chandy SJ, Jusoh AC, Cherry-Bukowiec JR, Chiara O, Colak E, Cornely OA, Cui Y, Demetrashvili Z, De Simone B, De Waele JJ, Dhingra S, Di Marzo F, Dogjani A, Dorj G, Dortet L, Duane TM, Elmangory MM, Enani MA, Ferrada P, Esteban Foianini J, Gachabayov M, Gandhi C, Ghnam WM, Giamarellou H, Gkiokas G, Gomi H, Goranovic T, Griffiths EA, Guerra Gronerth RI, Haidamus Monteiro JC, Hardcastle TC, Hecker A, Hodonou AM, Ioannidis O, Isik A, Iskandar KA, Kafil HS, Kanj SS, Kaplan LJ, Kapoor G, Karamarkovic AR, Kenig J, Kerschaefer I, Khamis F, Khokha V, Kiguba R, Kim HB, Ko WC, Koike K, Kozlovska I, Kumar A, Lagunes L, Latifi R, Lee JG, Lee YR, Leppäniemi A, Li Y, Liang SY, Lowman W, Machain GM, Maegele M, Major P, Malama S, Manzano-Nunez R, Marinis A, Martinez Casas I, Marwah S, Maseda E, McFarlane ME, Memish Z, Mertz D, Mesina C, Mishra SK, Moore EE, Munyika A, Mylonakis E, Napolitano L, Negoi I, Nestorovic MD, Nicolau DP, Omari AH, Ordonez CA, Paiva JA, Pant ND, Parreira JG, Pędziwiatr M, Pereira BM, Ponce-de-Leon A, Poulakou G, Preller J, Pulcini C, Pupelis G, Quiodettis M, Rawson TM, Reis T, Rems M, Rizoli S, Roberts J , Pereira NR, Rodríguez-Baño J, Sakakushev B, Sanders J, Santos N, Sato N, Sawyer RG, Scarpelini S, Scoccia L, Shafiq N, Shelat V, Sifri CD, Siribumrungwong B, Søreide K, Soto R, de Souza HP, Talving P, Trung NT, Tessier JM, Tumbarello M, Ulrych J, Uranues S, Van Goor H, Vereczkei A, Wagenlehner F, Xiao Y, Yuan KC, Wechsler-Fördös A, Zahar JR, Zakrisson TL, Zuckerbraun B, Zuidema WP, Catena F. The Global Alliance for Infections in Surgery: defining a model for antimicrobial stewardship-results from an international cross-sectional survey. <i>World J Emerg Surg.</i> 2017 Aug 1;12:34. doi: 10.1186/s13017-017-0145-2. eCollection 2017.
Journal article	Harris PNA, McNamara JF, Lye DC, Davis JS, Bernard L, Cheng AC, Doi Y, Fowler VG Jr, Kaye KS, Leibovici L, Lipman J , Llewelyn MJ, Munoz-Price S, Paul M, Peleg AY, Rodríguez-Baño J, Rogers BA, Seifert H, Thamlikitkul V, Thwaites G, Tong SYC, Turnidge J, Utili R, Webb SAR, Paterson DL25. Proposed primary endpoints for use in clinical trials that compare treatment options for bloodstream infection in adults: a consensus definition. <i>Clin Microbiol Infect.</i> 2017 Aug;23(8):533-541.
Journal article	Kumta N, Roberts JA , Lipman J , Cotta MO. Antibiotic Distribution into Cerebrospinal Fluid: Can Dosing Safely Account for Drug and Disease Factors in the Treatment of Ventriculostomy-Associated Infections? <i>Clin Pharmacokinet.</i> 2017 Sep 13. doi: 10.1007/s40262-017-0588-3. In Press
Journal article	Parker SL, Guerra Valero YC, Ordóñez Mejía JL, Roger C, Lipman J , Roberts JA , Wallis SC. An LC-MS/MS method to determine vancomycin in plasma (total and unbound), urine and renal replacement therapy effluent. <i>Bioanalysis.</i> 2017 Jun;9(12):911-924.
Journal article	Vellinga NAR, Boerma EC, Koopmans M, Donati A, Dubin A, Shapiro NI, Pearse RM, van der Voort PHJ, Dondorp AM, Bafi T, Fries M, Akarsu-Ayazoglu T, Pranskunas A, Hollenberg S, Balestra G, van Iterson M, Sadaka F, Minto G, Aypar U, Hurtado FJ, Martinelli G, Payen D, van Haren F, Holley A , Gomez H, Mehta RL, Rodriguez AH, Ruiz C, Canales HS, Duranteau J, Spronk PE, Jhanji S, Hubble S, Chierago M, Jung C, Martin D, Sorbara C, Bakker J, Ince C; microSOAP study group. Mildly elevated lactate levels are associated with microcirculatory flow abnormalities and increased mortality: a microSOAP post hoc analysis. <i>Crit Care.</i> 2017 Oct 18;21(1):255. doi: 10.1186/s13054-017-1842-7.
Journal article	Sime FB, Hahn U, Warner MS, Tiong IS, Roberts MS, Lipman J , Peake SL, Roberts JA . Using Population Pharmacokinetic Modeling and Monte Carlo Simulations To Determine whether Standard Doses of Piperacillin in Piperacillin-Tazobactam Regimens Are Adequate for the Management of Febrile Neutropenia. <i>Antimicrob Agents Chemother.</i> 2017 Oct 24;61(11). pii: e00311-17. doi: 10.1128/AAC.00311-17.
Journal article	Rhodes NJLiu J, O'Donnell JN, Dulhunty JM, Abdul-Aziz MH, Berko PY, Nadler B, Lipman J , Roberts JA . Prolonged Infusion Piperacillin-Tazobactam Decreases Mortality and Improves Outcomes in Severely Ill Patients: Results of a Systematic Review and Meta-Analysis. <i>Crit Care Med.</i> 2018 Feb;46(2):236-243.
Journal article	Abdul-Aziz MH Lipman J, Roberts JA . Identifying "at-risk" patients for sub-optimal beta-lactam exposure in critically ill patients with severe infections. <i>Crit Care.</i> 2017 Nov 21;21(1):283. doi: 10.1186/s13054-017-1871-2.

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Journal article	Braune S, König C, Roberts JA , Nierhaus A, Steinmetz OM, Baehr M, Frey OR, Kluge S, Langebrake C. Pharmacokinetics of meropenem in septic patients on sustained low-efficiency dialysis: population pharmacokinetic study. <i>Crit Care</i> 2017; In Press
Journal article	Minichmayr I, Roberts JA , Frey O, Roehr A, Kloft C, Brinkman A. Development of a dosing nomogram for continuous infusion meropenem in critically ill patients based on a validated population pharmacokinetic model. <i>J Antimicrob Chemother</i> 2017; In press
Journal article	Dhaese SAM, Roberts JA , Carlier M, Verstraete AG, Stove V, De Waele JJ. Population pharmacokinetics of piperacillin continuous infusion in critically ill patients. <i>Int J Antimicrob Agents</i> 2017; In Press
Journal article	Byrne C, Parton T, McWhinney B, Fennell J, O'Byrne P, Deasy E, Egan S, Enright H, Desmond R, Ryder S, D'Arcy D, McHugh J, Roberts JA. Population pharmacokinetics of total and unbound teicoplanin concentrations and dosing simulations in patients with haematological malignancy. <i>J Antimicrob Chemother</i> 2017; In Press
Journal article	Abbott I, Meletiadiis J, Belghanch I, Wijma R, Kanioura L, Roberts JA , Peleg A, Mouton J. Fosfomycin efficacy and emergence of resistance among Enterobacteriaceae in an in-vitro dynamic bladder infection model. <i>J Antimicrob Chemother</i> 2017; In Press
Journal article	Blaskovich, MAT, Hansford KA, Gong Y, Butler MS, Muldoon C, Huang JX, Ramu S, Silva AB, Cheng M, Kavanagh AM, Ziora Z, Premraj R, Lindahl F, Bradford TA, Lee JC, Karoli T, Pelingon R, Edwards DJ, Amadao M, Elliott AG, Phetsang W, Daud NH, Deecke JE, Sidjabat HE, Ramaolaga S, Zuegg J, Betley JR, Beevers APG, Smith RAG, Roberts JA , Paterson DL, Cooper MA. Protein inspired antibiotics active against vancomycin and daptomycin resistant bacteria. <i>Nat Commun</i> . 2018 Jan 2;9(1):22. doi: 10.1038/s41467-017
Journal article	Leguelinel-Blache G, Nguyen TL, Louart B, Poujol H, Lavigne JP, Roberts JA , Muller L, Kinowski JM, Roger C, Lefrant JY, Impact of quality bundle enforcement by a critical care pharmacist on patient outcome and costs. <i>Crit Care Med</i> 2017; In press
Journal article	Sinnah F, Shekar K, Abdul-Aziz MH, Buscher H, Diab SD, Fisquet S, Fung YL, McDonald CI, Reynolds C, Rudham S, Wallis SC, Welch S, Xie J, Fraser JF, Roberts JA . Incremental research approach to describing the pharmacokinetics of ciprofloxacin during extracorporeal membrane oxygenation. <i>Crit Care Resus</i> 2017; In press
Journal article	Vickers ML, Dulhunty JM, Ballard E, Chapman P, Muller M, Roberts JA , Cotta MO. Risk factors for multidrug resistant Gram-negative infection in burn patients. <i>ANZ J Surg</i> 2017; In press
Journal article	Byrne C, Roberts JA , McWhinney B, Fennell J, O'Byrne P, Deasy E, Egan S, Desmond R, Enright H, Ryder S, D'Arcy D, McHugh J. Population pharmacokinetics of teicoplanin and attainment of pharmacokinetic/pharmacodynamic targets in adult patients with haematological malignancy. <i>Clin Microbiol Infect</i> 2017 Sep;23(9):674.e7-674.e13
Journal article	Byrne C, Roberts JA , McWhinney B, Fennell J, O'Byrne P, Deasy E, Egan S, Desmond R, Enright H, Ryder S, D'Arcy D, McHugh J. Variability in trough total and unbound teicoplanin concentrations and achievement of therapeutic drug monitoring targets in adult patients with haematological malignancy. <i>Antimicrob Agents Chemother</i> 2017;24;61(6). pii: e02466-16. doi: 10.1128/AAC.02466-16
Journal article	König C, Braune S, Roberts JA , Nierhaus A, Steinmetz OM, Baehr M, Frey OR, Langebrake C, Kluge S. Population pharmacokinetics and dosing simulations of ceftazidime in critically ill septic patients receiving sustained low-efficiency dialysis. <i>J Antimicrob Chemother</i> 2017;72(5):1433-1440
Journal article	Coulter S, Roberts JA , Hajkovicz K, Halton K. The use of Bloodstream Infection (BSI) mortality to measure the impact of Antimicrobial Stewardship (AMS) interventions: assessing the evidence. <i>Inf Dis Reports</i> 2017;9(1):6849
Journal article	Mulvogue K, Roberts JA , Coombes I, Cottrell N, Kanagarajah S, Smith A. The effect of pharmacists on ward rounds measured by the STOPP START tool in a specialised geriatric unit. <i>J Clin Pharm Ther</i> 2017 Apr;42(2):178-184
Journal article	Sartelli M, Kluger Y, Roberts JA , Catena F. A Global Declaration on Appropriate Use of Antimicrobial Agents across the Surgical Pathway. <i>World J Emerg Surg</i> 2017; 18 (8): 846-53.

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Journal article	Rawson TM, O'Hare D, Herrero P, Sharma S, Moore LSP, de Barra E, Roberts JA , Gordon AC, Hope W, Georgiou P, Cass AEG, Holmes AH. Delivering precision antimicrobial therapy through closed-loop control systems. <i>J Antimicrob Chemother</i> 2017; Dec 4. In Press.
Journal article	Roger C, Roberts JA , Muller L. Clinical Pharmacokinetics and Pharmacodynamics of Oxazolidinones. <i>Clin Pharmacokinet</i> 2017; In Press.
Journal article	Cheng V, Abdul-Aziz MH, Roberts JA , Shekar K. Optimising drug dosing in patients receiving extracorporeal membrane oxygenation. <i>J Thoracic Dis</i> 2017; In Press
Journal article	Rello J, Rouby JJ, Sole-Lleonart C, Chastre J, Blot S, Luyt CE, Riera J, Vos MC, Monsel A, Dhanani J, Roberts JA . Key conceptual considerations on nebulization of antimicrobial agents to mechanically ventilated patients. <i>Clin Microbiol Infect</i> 2017; In Press
Journal article	Sulaiman H, Abdul-Aziz MH, Roberts JA . Pharmacokinetic/Pharmacodynamics-Optimized Antimicrobial Therapy in Patients with Hospital-Acquired Pneumonia/Ventilator-Associated Pneumonia. <i>Sem Respir Crit Care Med</i> 2017;38:271–286.
Journal article	Tängdén T, Ramos Martín V, Felton TW, Nielsen EI, Marchand S, Brüggemann RJ, Bulitta JB, Bassetti M, Theuretzbacher U, Tsuji BT, Wareham DW, Friberg LE, De Waele JJ, Tam VH, Roberts JA . The role of infection models and PK/PD modelling for optimising care of critically ill patients with severe infections. <i>Intensive Care Med</i> 2017; 43: 1021-32.
Journal article	Roberts JA . Beta-lactam therapeutic drug monitoring in the critically ill children: big solution for infections in small people? <i>Crit Care Med</i> 2017; In Press.
Journal article	Shehabi Y, Forbes AB, Arabi Y, Bass F, Bellomo R, Kadiman S, Howe BD, McArthur C, Reade MC , Seppelt I, Takala J, Webb S, Wise MP; The SPICE III study investigators; The Australian and New Zealand Intensive Care Society Clinical Trials Group; The Australian and New Zealand Intensive Care Research Centre. The SPICE III study protocol and analysis plan: a randomised trial of Early Goal Directed Sedation compared with standard care in mechanically ventilated patients. <i>Critical Care and Resuscitation</i> , 2017; 19(4): 318-326.
Journal article	Marks DC, Johnson L, Reade MC . A clinical trial of frozen platelets: rationale, protocol and pilot analysis plan. <i>ISBT Science Series</i> , In Press.
Journal article	Woolley T, Strandenes G, et al. incl. Reade MC . Trauma Hemostasis and Oxygenation Research (THOR) Network position paper on the role of hypotensive resuscitation as part of remote damage control resuscitation. <i>Journal of Trauma and Acute Care Surgery</i> . In Press.
Journal article	Blazak P, Presneill J, Reade MC . Early repeat computed tomographic imaging in transferred trauma and neurosurgical patients: incidence, indications and impact. <i>Journal of Medical Imaging and Radiation Oncology</i> ; In Press
Journal article	Reade MC , Brennan LB. Do austere surgical units belong on a mature battlefield? A critique of the evidence. <i>Injury</i> . 2017 Dec;48(12):2890-2892.
Journal article	Lee-Archer P, Paterson R, McBride CA, Regli-von Ungern Sternberg B, Reade MC , Long D. The effect of dexmedetomidine given as a premedication or intraoperatively on post-hospitalisation behaviour change in children: a study protocol for a randomised controlled trial. <i>BMJ</i> . In Press.
Journal article	Cooper DJ, McQuilten ZK, Nichol A, Ady B, Aubron C, Bailey M, Bellomo R, Gantner D, Irving DO, Kaukonen K-M, McArthur C, Murray L, Pettilä V, and French C, for the TRANSFUSE Investigators (incl. Reade MC) and the Australian and New Zealand Intensive Care Society Clinical Trials Group. Age of Red Cells for Transfusion and Outcomes in Critically Ill Adults. <i>New England Journal of Medicine</i> , 2017: In Press.
Journal article	Vickers ML, Coorey CP, Milinovich GJ, Eriksson L, Assoum M, Reade MC . Bibliometric analysis of military trauma publications: 2000 – 2016. <i>J R Army Med Corps</i> . 2018 Jan 13. In Press.
Journal article	Reade MC , Flint C, Kennaway S, Duff N, McCall B. Command vs. technical authority in the externally regulated, highly technical context of a Role 2E Hospital. <i>Journal of Military and Veterans' Health</i> , 2017; 25(3): 61-68.
Journal article	Reade MC . Cultural influences on the rates, acceptability and utility of advance care directives. <i>Anaesthesia Critical Care & Pain Medicine</i> . In Press

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Journal article	Reade MC. Low-dose, non-titrated dexmedetomidine trials: clarifying possible coenrollment. <i>Anesthesiology</i> , 2017; 127(2): 398.
Journal article	Jones D, Hodgson CL, Shehabi Y, Reade MC. Reducing confusion about post-cardiotomy delirium. <i>Critical Care and Resuscitation</i> , 2017; 19(1), 1-4.
Journal article	Phan K, Dux C, Osland E, Reade MC. Effect of hypocaloric normoprotein or trophic versus full enteral feeding on patient outcomes among critically ill adults: A systematic review. <i>Anaesthesia and Intensive Care</i> , 2017; 45(6): 663-675.
Journal article	Rowan K, Angus D, Bailey M, Barnato A, Bellomo R, Coats T, Delaney A, Gimbel E, Grieve R, Harrison D, Higgins A, Howe B, Huang D, Kellum J, Mounicy P, Music E, Peake S, Pike F, Reade MC, Sadique Z, Singer M, Yealy D. Early, Goal-Directed Therapy for Septic Shock - A Patient-Level Meta-Analysis. <i>N Engl J Med.</i> 2017 Sep 7;377(10):994
Journal article	Reade MC, Bass F, Howe B, Seppelt I, Shehabi Y. Considerations for co-enrolment in randomised controlled effectiveness trials in critical care: the SPICE-8 co-enrolment guidelines. <i>Crit Care Resusc.</i> 2017 Jun;19(2):110-114.
Journal article	Linwood R, Duff N, Flint C, Reade MC, Krohn P. Application of clinical governance in a Role 2E hospital: the 2nd General Health battalion experience. <i>Journal of Military and Veterans' Health</i> , 2017; 25(1): 23-29.
Journal article	Winnearls J, Mitra B, Reade MC. Haemotherapy algorithm for the management of trauma induced coagulopathy – an Australian perspective. <i>Curr Opin Anaesthesiol.</i> 2017 Apr;30(2):265-276.
Journal article	Aubron C, Flint A, Bailey M, Pilcher D, Cheng A, Hegarty C, Martinelli A, Reade MC, Bellomo R, McQuilten Z. Is platelet transfusion associated with hospital-acquired infections in critically ill patients? <i>Crit Care.</i> 2017 Jan 6;21(1):2.
Journal article	Flint A, Aubron C, Bailey M, Bellomo R, Pilcher D, Cheng AC, Hegarty C, Reade MC, McQuilten Z. Duration of platelet storage and outcomes of critically ill patients. <i>Transfusion</i> , 2017; 57: 599-605.
Book chapter	Liu D, Reade MC. Central alpha-2 adrenoceptor agonists in intensive care. In: Annual Update in Intensive Care and Emergency Medicine 2018. Berlin: Springer-Verlag. In Press.
Book chapter	Lee-Archer P, Reade MC, Regli-von Ungern-Sternberg B, Long D. Postoperative behaviour change in children. <i>Australasian Anaesthesia 2017</i> , Melbourne: Australian and New Zealand College of Anaesthetists, 2017: 281-290.
Book chapter	Reade MC, Winnearls J. Evidence, new methods and current practice of point-of-care coagulation testing in major haemorrhage. <i>Australasian Anaesthesia 2017</i> , Melbourne, Australian and New Zealand College of Anaesthetists, 2017: 117-134.
Book chapter	Reade MC & Thomas PD. Blast and ballistic trauma. In: Bersten A, Soni N. <i>Oh's Intensive Care Manual</i> , 8th edition, London, Elsevier, 2017, In Press.
Book chapter	Mahoney A, Vassiliadis J, Reade MC. Making the best use of simulation training in critical care medicine. In: Vincent JL, ed. <i>Annual Update in Intensive Care and Emergency Medicine 2017</i> . Berlin: Springer-Verlag, 2017; 477-492.
Book chapter	Sime FS, Roberts JA. Antibiotic Pharmacodynamics. In Udy AA, Roberts JA, Lipman J (eds). <i>Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill</i> . Springer, Switzerland, 2017.
Book chapter	Abdul-Aziz MH, Shekar K, Roberts JA. Antibiotic Dosing During Extracorporeal Membrane Oxygenation. In Udy AA, Roberts JA, Lipman J (eds). <i>Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill</i> . Springer, Switzerland, 2017.
Book chapter	Sinnollareddy M, Cotta MOC, Roberts JA. Pharmacokinetic and Pharmacodynamic Tools to Increase Efficacy. In: Pulcini C, Ergonul O, Can F, Beovic B ed. <i>Antimicrobial Stewardship</i> , European Society of Clinical Microbiology and Infectious Diseases and Academic Press, London, UK 2017.
Book chapter	Denny KJ, Lipman J, Roberts JA. Cephalothin and cefazolin. In: Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA ed. <i>Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs</i> , 7th edition. ASM Press, Washington DC, USA, 2017.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Book chapter	Geddes AM, Gould IM, Roberts JA , Grayson ML, Cosgrove SE. Ampicillin and Amoxicillin. In: Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA ed. Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition. ASM Press, Washington DC, USA, 2017.
Book chapter	Geddes AM, Gould IM, Trubiano JA, Roberts JA , Grayson ML. Benzylpenicillin (Penicillin G). In: Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA ed. Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition. ASM Press, Washington DC, USA, 2017.
Book chapter	Geddes AM, Gould IM, Roberts JA . Phenoxypenicillins. In: Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA ed. Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition. ASM Press, Washington DC, USA, 2017.
Book chapter	Holley AD . Management of the Critically Ill Burns Patient. Trauma and Combat Critical Care in Clinical Practice pp 277-306. Chapter. First online 25 October 2016.
Book	Udy AA, Roberts JA , Lipman J (eds). Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill. Springer, Switzerland, 2017.
Journal Article	Johnson S, Coyer F , Nash R. Simulation debriefing based on transfer of learning principles: A pilot study. Nurse Education in Practice. 2017. 26:102-108.
Journal Article	Coyer F , Clark M, Slattery P, Thomas P, McNamara G, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring pressures, tissue reperfusion and body positioning: A pilot evaluation. Journal of Wound Care. 2017. 26(10):1-10.
Journal Article	Cook JL, Coyer F , Vann A, Campbell J, McNamara G, Lost in Translation? Interpreting universal pressure injury guidelines into a practical reference for intensive care. Aust Crit Care. 2017. 30(2):113.
Journal Article	Dunstan E, Coyer F . A survey of safety culture in two Australian tertiary hospital intensive care units: The SCATH-ICU study. Aust Crit Care. 2017. 30(2):115.
Journal Article	Pather P, Kynoch K, Hines S, Coyer F . The effectiveness of topical skin products in the treatment and prevention of incontinence-associated dermatitis: A systematic review. JBI Database of Systematic Reviews and Implementation Reports. 2017. 15(5):1473-1496.
Journal Article	Coyer F , Tayyib N. Pressure ulcer risk factors in the intensive care unit; a systematic review protocol. BMC Systematic Reviews. 2017. 6:58. DOI:10.1186/s13643-017-0451-5
Journal Article	Coyer F , Lipman J. Professorial clinical units: advancing research in the intensive care unit via the integration of a nursing professor. ICU Management & Practice. 2017. 17(1):50-2.
Journal Article	Coyer F , Gardner A, Doubrovsky A. An interventional skin care protocol (InSPIRE) to reduce incontinence-associated dermatitis in intensive care patients; a before and after study. Intensive and Critical Care Nursing. 2017. 40:1-10.
Journal Article	Tutticci N, Coyer F , Lewis P, Ryan M. Student facilitation of simulation debrief: Measuring reflective thinking and self-efficacy. Teaching and Learning in Nursing. 2017. 12(2):128-135.
Journal Article	Tutticci N, Coyer F , Lewis P, Ryan M. Validation of a reflective thinking instrument for third year undergraduate nursing students participating in a high fidelity simulation. Reflective Practice: International and Multidisciplinary Perspectives. 2017. 18(2):219-231.
Journal Article	Tutticci N, Ryan M, Coyer F , Lewis P. Collaborative facilitation of debriefing after high fidelity simulation and its implications for reflective thinking: student experiences. Studies in Higher Education. Available online 30 January 2017 http://dx.doi.org/10.1080/03075079.2017.1281238
Journal Article	Coyer F , Miles S, Fulbrook P, Gosley S, Sketcher-Baker K, Cook JL, Whitmore J. Pressure injury prevalence in intensive care versus non-intensive care patients: A state-wide comparison. Australian Critical Care. 2017. 30:244-250. Doi: http://dx.doi.org/10.1016/j.aucc.2016.12.003
Journal Article	Tayyib N, Coyer F . Translating pressure ulcer prevention bundle into intensive care nursing practice; overlying a care bundle approach with a model of research implementation. Journal of Nursing Care Quality. 2017. 32(1):6-14.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Report	Beeckman D, Van den Bussche K, Alves P, Beele H, Ciprandi G, Coyer F , de Groot T, De Meyer D, Dunk AM, Fouri A, García-Molina P, Gray M, Iblasi A, Jelnes R, Johansen E, Karadag A, Leblancq K, Kis Dadara Z, Long MA, Meaume S, Pokorna A, Romanelli M, Ruppert S, Schoonhoven L, Smet S, Smith C, Steininger A, Stockmayr M, Van Damme N, Voegeli D, Van Hecke A, Verhaeghe S, Woo K, Kottner J. The Ghent Global IAD Categorisation. Tool (GLOBIAD). Skin Integrity Research Group - Ghent University 2017. Available to download from www.UCVVGent.be

2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	Coyer F . Present findings from the SUSTAIN study: translating PI prevention evidence into practice. AASTN 41st National Conference, Brisbane, March 2017
Invited Speaker	Coyer F . Device related pressure injuries: Incontinence associated dermatitis. 3M Cavilon Advanced Skin Protectant Launch Event: Spotlight on Infection Wounds Australia Study Day. 4 November 2017, Perth.
Invited Speaker	Coyer F . PI Prevention in Complex Critically ill Patients. Falls, Fractures & Pressure Injuries Management Conference, 2-3 November 2017, Melbourne.
Invited Speaker	Coyer F . Translating Evidence-Based Pressure Injury Prevention Strategies to the Intensive Care Environment: The SUSTAIN Study. Winner EPUAP & 3M Pressure Ulcer and IAD Innovation Award . EPUAP 2017: The 19th Annual Meeting of the European Pressure Ulcer Advisory Panel, 20-22 September 2017, Belfast, Northern Ireland.
Invited Speaker	Coyer F . Skin management for the critically ill patient – a skin bundle approach (PI and IAD). China Wound Ostomy Continence Nursing Conference, 21-26 August 2017, China.
Invited Speaker	Coyer F . Incontinence-associated dermatitis best practice. China Wound Ostomy Continence Nurses Association 15th Congress 24 August 2017. Xi'an, China.
Invited Speaker	Coyer F . Translating Evidence-Based Pressure Injury Prevention Strategies to the Intensive Care Environment: The SUSTAIN Study. WCICT 2017 Wound Care From Innovations to Clinical Trials Conference, 20-21 June 2017, Manchester, UK.
Invited Speaker	Coyer F . Present findings from the SUSTAIN study: translating PI prevention evidence into practice. AASTN 41st National Conference, 15 March 2017, RNA, Brisbane.
Invited Speaker	Coyer F . Pressure Ulcer Prevention Clinical Evidence. PIP Educational Week, 28-30 November 2017, Dubai and Abu Dhabi.
Oral Invited	Roberts JA , “PK-PD Dosing Issues in Special Patients: Critically Ill Patients versus Healthy Volunteers”. 2017 ASM-ESCMID Conference: Drug Development to Meet the Challenge of Antimicrobial Resistance, Boston, USA September 2017.
Oral Invited	Roberts JA , “How can the non-ID Specialist approach AMS”. South African Society of Clinical Pharmacists 7th Annual Conference, Johannesburg, South Africa June 2017.
Oral Invited	Roberts JA , “Therapies for specific infection syndromes”. South African Society of Clinical Pharmacists 7th Annual Conference, Johannesburg, South Africa June 2017.
Oral Invited	Roberts JA , “PK/PD, TDM, dosing in difficult patient groups (ICU, transplant, renal, RRT, ECMO), association with resistance” (Keynote). South African Society of Clinical Pharmacists 7th Annual Conference, Johannesburg, South Africa June 2017.
Oral Invited	Roberts JA , “Customised antibiotic dosing to save patient’s lives” (Plenary) 1st Queensland-Guangdong Clinical Pharmacy Education Symposium, Guangzhou, China May 2017.
Oral Invited	Roberts JA , “Customised Drug Dosing in the Critically Ill”. International PEAK-II (Paul Ehrlich Antiinfektiva Konzentrationen) Workshop, Frankfurt, Germany, April 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	Roberts JA , “Therapeutic Drug Monitoring – for all drugs, for all antibiotics?” European Conference on Clinical Microbiology and Infectious Diseases, Vienna, Austria, April 2017.
Oral Invited	Roberts JA , “Antibiotic Resistance – Clinical Pharmacokinetics/Pharmacodynamics” Joint International Society of Anti-infective Pharmacology (ISAP) and ESCMID Pharmacokinetics/Pharmacodynamics Study Group (EPASG) Conference on Integrating Knowledge and Innovating Therapies, Vienna, Austria, April 2017.
Oral Invited	Roberts JA , “From Diagnosing to Dosing” EUROASIA, European Society of Intensive Care Medicine, Hong Kong, April 2017.
Oral Invited	Roberts JA , “Dosing in Renal Replacement Therapy” EUROASIA, European Society of Intensive Care Medicine, Hong Kong, April 2017.
Oral Invited	Roberts JA , “Right Dose, Right Now: Customised drug dosing in the critically ill.” (Plenary) 46th International Critical Care Congress, Society of Critical Care Medicine, Hawaii USA, January 2017.
Oral Invited	Roberts JA , “Antimicrobial PK/PD”, Medicines Management 2017, Society of Hospital Pharmacists of Australia National Conference, Sydney, Australia November 2017.
Oral Invited	Roberts JA , “Individually Designed Optimum Dosing Strategies”, NHMRC Centre for Research Excellence REDUCE Dose Optimisation Workshop, November 2017, Sydney, Australia.
Oral Invited	Roberts JA , “Appropriate use of antibiotics in critical care”. National Forum on Antimicrobial Resistance. Brisbane, November 2017.
Oral Invited	Roberts JA , “Why is antimicrobial dosing so important to the care of some patient groups?”. Specialist Antimicrobial Stewardship Workshop. National Forum on Antimicrobial Resistance. Brisbane, November 2017.
Oral Invited	Roberts JA . “Antimicrobials: Individualised Dosing and PKPD”. Advanced Critical Care Seminar, Society of Hospital Pharmacists of Australia, Gold Coast, October 2017.
Oral Invited	Roberts JA , “Lipophobic: the challenges of drug dosing in obesity”, Australia and New Zealand College of Anaesthetists Annual Scientific Meeting, Brisbane, Australia, May 2017.
Oral Invited	Roberts JA , Using PKPD to optimise antimicrobial dosing in the critically ill. National Centre for Infections in Cancer Seminar, University of Melbourne, Melbourne, October 2017.
Oral Invited	Roberts JA , “Importance of sufficient dosing for optimising patient outcomes from infection”. Royal Brisbane and Women’s Hospital Annual Research Symposium, Brisbane, September 2017.
Oral Invited	Roberts JA , “Show me the money: Maximising funding from small to large projects” Queensland Critical Care Research Forum, Sunshine Coast University Hospital, Caloundra, May 2017.
Oral Invited	Marks DC, Johnson L, Reade MC . A clinical trial of frozen platelets. International Society of Blood Transfusion Annual Meeting, Guangzhou, 2017.
Oral Invited	Reade MC . Cryopreserved vs. liquid platelets for surgical bleeding: proposal for a definitive trial. ANZICS Clinical Trials Group Winter Research Forum, Queenstown New Zealand, 2017.
Oral Invited	Reade MC . Data sharing – Early Goal Directed Therapy Individual Patient Data Meta-analysis Lessons Learnt. ANZICS Clinical Trials Group Winter Research Forum, Queenstown New Zealand, 2017.
Oral Invited	Reade MC . Dexmedetomidine to lessen ICU agitation. 8th International Congress of the German Sepsis Society, Weimar, 2017.
Oral Invited	Reade MC . What does a credible Army clinical workforce look like? Army Health Services Conference, Brisbane, 2017.
Oral Invited	Reade MC . Traumatic Cardiac Arrest. Australian and New Zealand College of Paramedicine Annual Meeting, Brisbane, 2017.
Oral Invited	Reade MC . Current best practice and likely future innovations in blood products for trauma care. Injury 2017, Auckland, 2017.
Oral Invited	Reade MC . Clinical trials methodology: building on 20 years’ experience in the ANZICS Clinical Trials Group. National Taiwan University Hospital Invited Professorial Address, Taipei, 2017.
Oral Invited	Reade MC . ICU delirium: current and future research. Taiwan Society of Critical Care Medicine Clinical Update, Taipei, 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	Reade MC. Current management and future research for ICU delirium. Taiwan Society of Emergency and Critical Care Medicine CME lecture, Taiwan, 2017.
Oral Invited	Reade MC. Surgical services at the ANZAC Role 2E hospital, Taji, Iraq. Royal Australasian College of Surgeons Annual Scientific Conference, Adelaide, 2017.
Oral Invited	Reade MC. Traumatic cardiac arrest. Australian Resuscitation Council Spark of Life Conference, Adelaide, 2017.
Oral Invited	Reade MC. Cardiac arrest due to trauma: new Australian and New Zealand guidelines. Australasian Trauma Society Annual Scientific Meeting, Melbourne, 2017.
Oral Invited	Reade MC. The new Australian Defence Force Blood Transfusion policy. Australasian Association of Clinical Biochemists / Australian Institute of Medical Scientists Combined Scientific Meeting, Brisbane, 2016.
Oral Invited	Reade MC. Big data: examples of military registry data answering hypothesis-driven research questions. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Brisbane, 2017.
Oral Invited	Reade MC, Scott D, Scarff C, Mahoney A, Luckin P, Thomas P, Douglas A. Military anaesthesia. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Brisbane, 2017.
Oral Invited	Reade MC. Blood products for austere environments – the new ADF policy. Ortho Clinical Diagnostics Lab Leader Scientific Summit, Singapore, 2017.
Oral Invited	Reade MC. What is delirium and what are the diagnostic tools? Austin Health Delirium Symposium, Melbourne, 2017.
Oral Invited	Reade MC. Tranexamic acid – too early or too late? 1st Annual Perioperative Patient Blood Management Symposium, Brisbane, 2017.
Invited speaker	Reade MC. What will we be transfusing trauma patients in the next war? ANZ Journal of Surgery, 87(S1), 83, 2017.
Invited speaker	Reade MC. Is the trauma ‘golden hour’ really fool’s gold? Journal of Military and Veterans Health, 2017, 25(4), 48-49.
International Presentation	Sultana A, Dean MM, Reade MC , Flower RL and Tung JP. Characterising anti-major histocompatibility complex class I-mediated transfusion-related acute lung injury (TRALI). University of Queensland International Postgraduate Symposium in Biomedical Sciences, Brisbane, 2017.
International Presentation	Sultana AJ, Dean MM, Reade MC , Flower RL, Tung, JP. In vitro characterisation of anti-major histocompatibility complex class I mediated transfusion-related acute lung injury (TRALI). Australasian Society for Immunology Annual Scientific Meeting, Brisbane, 2017.
International Presentation	Simonova G, Pedersen S, Reade MC , Johnson L, Dean M, Tung JP. Cryopreserved sheep platelet concentrates: hemostatically efficient and suitable for transfusion research. United States Military Health Service Research Symposium, Orlando, 2017.
International Presentation	Sultana A, Dean MM, Reade MC , Flower RL, Tung JP. Characterising human anti-major histocompatibility complex class I-mediated transfusion-related acute lung injury (TRALI). Prince Charles Hospital Research Week Seminar, Brisbane, 2017.

GENETIC HEALTH QUEENSLAND



ASSOC PROF JULIE MCGAUGHRAN

Director
Genetic Health Queensland

Genetic Health Queensland (GHQ) is a state-wide service which provides clinical genetics services for all age groups in the state of Queensland. GHQ contributes to educational sessions at RBWH, LCCH and regional centres. GHQ clinical staff undertakes presentations to other health professional groups and non-government organisations.

In 2017, GHQ continued its close involvement in the Australian Genomic Health Alliance (AGHA), which was awarded a \$25 million 5 year grant from the National Health and Medical Research Council's (NHMRC) Targeted Call for Research into Preparing Australia for the Genomics Revolution in Healthcare. AGHA brings together more than 50 partner organisations committed to integrating genomic medicine into healthcare across Australia. This has included the appointment of GHQ Australian Genomics research staff including a project officer, and two part-time genetic counsellors. In 2017, GHQ recruited 37 patients into the project at RBWH (combined total for Renal and ICCon flagships). GHQ Australian Genomics staff are also working with clinicians at LCCH on several other AGHA flagships and are collaborating with researchers from organisations including QIMR-Berghofer, UQ, QGHA and others here and interstate in programs regarding bioinformatics, workplace education, ethical and legal issues, implementation, health economics and policy associated with genomic medicine.

Cardiac and renal genetics remain active areas of research collaborations, resulting in several publications. Cancer genetics also remains an active area of research. The Cancer team have been conducting in-services for various Queensland public cancer services to facilitate mainstreaming of BRCA gene testing as part of a COSA lead research project. The active research engagement of GHQ is clearly evident in contributions to 17 presentations at both national and international conferences.

2017 was an exciting year for GHQ and provides the foundation for ongoing productive research collaborations both within the RBWH and with an increasing number of external institutions.

2017 RESEARCH POSITIONS: COORDINATORS, FELLOW, ADJUNCT AND HONORARY POSITIONS

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Michael Quinn	Queensland State Project Officer for Australian Genomics	Australian Genomics Health Alliance (AGHA)	NA
Melanie Tom	Genetic Counsellor for Australian Genomics (Malformations of Cortical Development, Leukodystrophies, Neuromuscular and Epileptic Encephalopathy Flagships)	AGHA	NA

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Lindsay Fowles	Genetic Counsellor for Australian Genomics (Renal flagship)	AGHA	NA
Rachel Austin	Clinical Research Assistant	ICCon, RBWH Research Foundation	NA

2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Andrew Mallett (RBWH, renal)	Chirag Patel, Julie McGaughran	Applying genomics to inherited tubulointerstitial and cystic kidney diseases in Australia (RBWH Foundation research grant)
Andrew Mallett (RBWH, renal) and Australian Genomics Health Alliance (AGHA)	Chirag Patel, Julie McGaughran, Lindsay Fowles	KidGen – renal genetics flagship
Andrew Mallett (RBWH, renal)	Andrew Mallett, Mohammad Al-Shinnag, Helen Mar Fan, Rachel Susman	Clinical audit of BHD, HLRCC and VHL at RBWH
COSA (Lead by Judy Do and Bettina Meiser)	Helen Mar Fan	BRCA Mainstreaming project
AGHA ICCon Cancer Flagship	Julie McGaughran	AGHA: Preparing Australia for genomic medicine
ICCon Partnership (Lead by Paul James and Gillian Mitchell)	Julie McGaughran	1) The Inherited Cancer Connect (ICCon) database: a national database of carriers of germline mutations in cancer predisposition genes predisposing to hereditary cancer syndromes. 2) Evaluation of the eviQ genetic testing guidelines and risk-management for people with hereditary cancer syndromes: Audit of Familial Cancer Clinics (eviQ project)
IMRC (Lead by Jeanette Reece)	Rachel Susman	A worldwide study of cancer risk for Lynch syndrome, as part of the International Mismatch Repair Consortium (IMRC)
IMPACT (Lead by Geoffrey Lindeman)	Rachel Susman	Identification of Men with a genetic predisposition to ProstAte Cancer: Targeted screening in men at higher genetic risk and controls (IMPACT)
kConFab (Lead by Stephen Fox)	Julie McGaughran	The Kathleen Cunningham National Research Consortium For Research on Familial Breast Cancer
QIMR-Berghofer (Lead by Barbara Leggett)	Helen Mar Fan	Identification of the Gene Causing Hereditary Flat Adenoma Syndrome (RBWH Research Foundation grant)

2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Andrew Mallett	Renal department	Applying genomics to inherited	RBWH Foundation	\$40,000	1 year
Chirag Patel Julie McGaughran	Genetic Health Queensland	tubulointerstitial and cystic kidney diseases in Australia			
Julie McGaughran (CI)	Genetic Health Queensland	AGHA: Preparing Australia for Genomic Medicine	NHMRC	Nationally \$5 million annually for 5 years	5 years from 2016

2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Mallett AJ , McCarthy HJ, Ho G, Holman K, Farnsworth E, Patel C , Fletcher JT, Mallawaarachchi A, Quinlan C, Bennetts B, Alexander SI. Massively parallel sequencing and targeted exomes in familial kidney disease can diagnose underlying genetic disorders. <i>Kidney Int</i> (2017) 92: 1493-1506
Journal Article	Murray N, Burgess B, Hay R, Colley A, Rajagopalan S, McGaughran J , Patel C , Enriquez A, Goodwin L, Stark Z, Tan T, Wilson M, Roscioli T, Tekin M, Goel H. KBG syndrome: An Australian experience. <i>Am J Med Genet A</i> (2017) Epub ahead of print
Journal Article	Chan S, Mallett AJ , Patel C , Francis RS, Johnson DW, Mudge DW, Isbel NM. Recurrent atypical haemolytic uraemic syndrome post kidney transplant due to a CD46 mutation in the setting of SMARCAL1-mediated inherited kidney disease. <i>Nephrology (Carlton)</i> (2017) Suppl 1: 11-14
Journal Article	Rososinski A, Tran T, Galvin J, Patel C , Fung AT. New findings from multimodal fundus imaging over 3 years of a patient with microcephaly, chorioretinopathy, and KIF11 mutation. <i>Retin Cases Brief Rep</i> (2017) Epub ahead of print
Journal Article	Richardson E, Spinks C, Davis A, Turner C, Atherton J , McGaughran J , Semsarian C, Ingles J. Psychosocial Implications of Living with Catecholaminergic Polymorphic Ventricular Tachycardia in Adulthood. <i>J Genet Couns.</i> 2017 Sep 23. doi: 10.1007/s10897-017-0152-1.
Journal Article	Fatkin D, Johnson R, McGaughran J , Weintraub RG, Atherton J ; CSANZ Genetics Council Writing Group. Position Statement on the Diagnosis and Management of Familial Dilated Cardiomyopathy. <i>Heart Lung Circ.</i> 2017 Nov;26(11):1127-1132. doi: 10.1016/j.hlc.2017.04.021. Epub 2017 Jun 7.
Journal Article	Sweeting J, Ball K, McGaughran J , Atherton J, Semsarian C, Ingles J. Impact of the implantable cardioverter defibrillator on confidence to undertake physical activity in inherited heart disease: A cross-sectional study. <i>Eur J Cardiovasc Nurs.</i> 2017 Dec;16(8):742-752. doi: 10.1177/1474515117715760. Epub 2017 Jun 14.
Journal Article	Murray N, Burgess B, Hay R, Colley A, Rajagopalan S, McGaughran J , Patel C , Enriquez A, Goodwin L, Stark Z, Tan T, Wilson M, Roscioli T, Tekin M, Goel H. KBG syndrome: An Australian experience. <i>Am J Med Genet A.</i> 2017 Apr 27. doi: 10.1002/ajmg.a.38121. [Epub ahead of print]
Journal Article	Acuna-Hidalgo R, Deriziotis P, Steehouwer M, Gilissen C, Graham SA, van Dam S, Hoover-Fong J, Telegrafi AB, Destree A, Smigiel R, Lambie LA, Kayserili H, Altunoglu U, Lapi E, Uzielli ML, Aracena M, Nur BG, Mihci E, Moreira LM, Borges Ferreira V, Horovitz DD, da Rocha KM, Jezela-Stanek A, Brooks AS, Reutter H, Cohen JS, Fatemi A, Smitka M, Grebe TA, Di Donato N, Deshpande C, Vandersteen A, Marques Lourenço C, Dufke A, Rossier E, Andre G, Baumer A, Spencer C, McGaughran J , Franke L, Veltman JA, De Vries BB, Schinzel A, Fisher SE, Hoischen A, van Bon BW. Overlapping SETBP1 gain-of-function mutations in Schinzel-Giedion syndrome and hematologic malignancies. <i>PLoS Genet.</i> 2017 Mar 27;13(3)

2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Invited	Patel C. Renal genetics workshop. KidGen Renal Genetics symposium, Melbourne, Dec 2017
Invited	Patel C. Genetic Technologies. HGSA annual conference, Brisbane, Aug 2017
Invited	Patel C. Understanding the genetics of TSC and importance of lifelong surveillance. TSC Webinar, Australia, Aug 2017
Invited	Ebbery, C. Changing Practice to Meet Demand: Mainstreaming. HGSA annual conference, Brisbane, Aug 2017
Invited	Boon M. Genetic Counselling – an overview. HGSA annual conference, Brisbane, Aug 2017
Invited	Gattas M. Choosing Wisely for gene tests. HGSA annual conference, Brisbane, Aug 2017
Invited	Gattas M. Q&A panel for the discussion on, “Personal Genomics: Medical Breakthrough or Ethical Dilemma?”, HGSA annual conference, Brisbane, Aug 2017
Poster	McGrath P, Gattas M, Patel C. A case of two apparently de novo mutations in the dystrophin gene in a single sibship. HGSA annual conference, Brisbane, Aug 2017
Invited	McGaughran, J. Session chair European Society of Human Genetics, Copenhagen, 2017
Invited	McGaughran, J. UQ Centre for Cardiac and Vascular Biology – Speaker and panel guest. Brisbane, May 2017
Invited	Mar Fan H. Session chair FCC Clinical professional Day, Kingscliffe, August 2017
Poster	Higgins M, Susman, R. Multiple pilomatrixomas in 3 unrelated children and literature review. HGSA annual conference, Brisbane, Aug 2017
Invited	Susman R. Genetics of Inherited Susceptibility to Bowel Cancer. Gastroenterological Society of Queensland 2017 Annual Noosa Update, Noosa, June 2017.
Invited	Susman R. The role of a Genetics Service relating to a possible diagnosis of Lynch syndrome. Australasian Gastrointestinal Pathology Society 2017 Annual Scientific Meeting, Brisbane, Oct 2017.
Invited	Susman R. Cancer Genetics. HGSA annual conference, Brisbane, Aug 2017.
Poster	Berkman J, et al. Genetic counselling certification in Australasia: the current landscape. HGSA annual conference, Brisbane, Aug 2017
Invited	McGaughran J, Berkman J. Session chairs. Plenary session 2. HGSA annual conference, Brisbane, Aug 2017

OTHER COMMUNICATIONS AND OUTPUTS:

TYPE (TEACHING, GRAND ROUND)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Grand round	Patel C. Adults with intellectual disability syndrome, RBWH grand round, Brisbane, Jul 2017
Teaching	Patel C. Renal Genetics, Statewide Renal Clinical Network Forum, Brisbane, May 2017
Teaching	Patel C. Genetics for paediatricians, RMO seminar, LCCH, Brisbane Jan 2017
Teaching	Patel C. Dysmorphology for paediatricians, RMO seminar, LCCH, Brisbane Apr 2017
Teaching	Patel C. Genetics for non-geneticists, RMO seminar, RBWH, Brisbane Jan 2017
Teaching	Patel C. Genetics for non-geneticists, RMO seminar, PAH, Brisbane Oct 2017

THE PROFESSOR TESS CRAMOND MULTIDISCIPLINARY PAIN CENTRE



ASSOC PROF PAUL GRAY
Director
Professor Tess Cramond
Multidisciplinary Pain Centre

The Professor Tess Cramond Multidisciplinary Pain Centre (PTCMPC) was established in 1967 to support patients with chronic pain. The Centre utilises various models of care including inpatient consultation liaison, outpatient clinics, pain medicine procedures and group pain management programs. With respect to research, the Centre is proud of a strong legacy and plans to build on that legacy into the future.

With the enormous burden of disease from chronic pain and limited good treatments, ongoing clinical research is important to assist people in pain. This is particularly relevant with current National initiatives such as medicinal use of cannabis, pelvic pain programs and rescheduling of over-the-counter codeine preparations along with other strategies to address the 'opioid crisis'.

In 2017, research in the PTCMPC was driven largely by Dr Nicole Andrews. Her work included the development of a valuable smartphone app to support and guide patients in their journey with chronic pain.

The future of research in the PTCMPC is promising as the Centre builds internal research and relationships with external bodies.

2017 RESEARCH POSITIONS: COORDINATORS, FELLOW, ADJUNCT AND HONORARY POSITIONS

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Nicole Andrews	Honorary Lecturer	School of Health and Rehabilitation Sciences	The University of Queensland (2015 - 2017)
	RBWH Postdoctoral Research Fellow	Towards understanding how much activity is too much for individuals with chronic pain	

2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Nicole Andrews	Marlien Varnfield (CSIRO), David Ireland (CSIRO)	Towards understanding how much is too much for individuals with chronic pain
Nicole Andrews	Sue Laracy	Evaluation of occupational therapy interventions within the orthopaedic physiotherapy screening clinic
Robyn Scheer	Nicole Andrews, Erin Molloy	The effect of limb position on leg circumference measurements in patients diagnosed with lower limb lymphoedema.

2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Lynn DeBar (Kaiser Permanente Centre for Health Research, Portland, USA)	Nicole Andrews	PPACT Administrative Supplement for Research on Sleep Disturbances and Impact on Chronic Pain
Meghan Mayhew (Kaiser Permanente Centre for Health Research, Portland, USA)		

2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Nicole Andrews, Marlien Varnfield (CSIRO), David Ireland (CSIRO)	Occupational Therapy, OPSC, and the Professor Tess Cramond Multidisciplinary Pain Centre	The development and implementation of a mobile health platform to support activity pacing implementation in chronic pain	Metro North LINK funding scheme	\$55,000	\$60 000 (2017-2018)
Nicole Andrews	Occupational Therapy, OPSC, and the Professor Tess Cramond Multidisciplinary Pain Centre	Towards being able to determine how much activity is too much for individuals with chronic pain	RBWH Foundation	\$50,000	\$50 000 (2017)