

2017

# RBWH

RESEARCH REPORT

## INTERNAL MEDICINE SERVICES

RBWH

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# INTERNAL MEDICINE SERVICES



**KATE MASON**  
Executive Director  
Internal Medicine Services

*Collaborations  
continued to be  
strong with our  
university and  
industry partners*

Internal Medicine Services has a deep history of involvement in advancing healthcare through research. This is achieved through the tireless efforts of dedicated staff across many disciplines and in all departments. In 2017, collaborations continued to be strong with our university and industry partners, as well as historical links with other health care providers and facilities both in Queensland and across Australia. IMS researchers also have many international collaborators that ensure that our contributions are benefiting not only our own patients, but also health care across the globe.

Having an active research culture not only adds to the body of knowledge of health care, however, also allows our patients to be involved in the latest therapies and diagnostics, have access to the newest medicines, and also to the best models of care under tight monitoring conditions.

IMS staff across all disciplines actively participate and share their research outcomes within the RBWH Symposium, national and international conferences, publications and health forums. The IMS Research teams have received many grants and awards to support their research endeavours through the RBWH Foundation Research Awards, Special Grants and funding from sources such as NHMRC, among others.

Each department has highlighted their Research achievements, listed those staff involved, documented their publications and presentations and nominated Post Graduate Research Students. This exhaustive list, while extremely impressive, still does not highlight the hours and hours of work that goes into each and every piece of research that is undertaken within this campus. On behalf of the IMS Executive team I would like to express our acknowledgment and gratitude for all staff within Internal Medicine Services that contribute to the Research outcomes that benefit our patients. We are all very proud of your achievements.

# CARDIOLOGY DEPARTMENT

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## About this service:

The cardiology department has a broad investigator-driven research program with a focus on health service research and evaluation. Much of this research has grown from the efforts of clinicians to improve models of care with interdisciplinary collaboration within RBWH and with other centres nationally and internationally.

## Highlights of 2017:

The evaluation of chest pain has involved a collaboration with the emergency department and internal medicine, with national and international collaborations, and industry partnerships. We have unique cardiac obstetric (collaboration with Internal Medicine and Obstetric Medicine) and cardiac genetic (collaboration with Genetic Health Queensland) clinics that receive statewide referrals.

Other research interests include investigating ways to detect presymptomatic heart disease using salivary biomarkers (collaboration with QUT), and investigating the feasibility of training nurses to perform echocardiography to assess left ventricular function. This may allow non-invasive and cost-effective early disease detection and monitoring. We have a strong clinical trials research program and have been the lead national and global recruiting site for a number of multicentre trials.

## Benefits for clinical practice:

Research into the evaluation of patients presenting with chest pain is being actively translated into clinical practice throughout Queensland by the Health Innovation Fund supported Accelerated Chest pain Risk Evaluation (ACRE) clinical redesign project. This research is informing the evaluation of chest pain across Queensland and internationally. We have a Cardiac Catheter Laboratory database with comprehensive mandatory complication tracking, which will inform the Queensland and Australian Cardiac Outcomes Registry. We informed the development of the Heart Failure Reporting Outcomes (HERO) database, which is tracking healthcare measures for all patients referred to heart failure services in Queensland.

### **EDITORIAL AND OTHER KEY POSITIONS HELD:**

- Professor and Clinical Director, Australian Centre for Health Service Innovation, Queensland University of Technology
- Associate Editor, Heart Lung Circulation (2 staff members)
- Editorial board for Cardiac Failure Review
- Editorial board for Medicine Today
- Editorial board for Cardiology Today
- Associate Cardiac Editor, Australasian Journal of Ultrasound in Medicine
- European Cardiac Obstetric Registry (only Australian representative)
- National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand (CSANZ) Heart Failure Guidelines Working Group (Chair)
- Therapeutic Guidelines Cardiovascular Expert Group
- Australian Government Medical Services Advisory Committee (MSAC)
- National Heart Foundation Research Committee
- CSANZ Board
- CSANZ Education Trust Board of Trustees
- CSANZ Queensland Regional Secretary
- Medicare Benefits Schedule Review Cardiac Services Clinical Committee
- Australian Government Department of Health Clinical Quality Registries Expert Advisory Group
- Australian National Genetic Heart Disease Registry
- Australian Cardiac Genetic Testing (AGCT) collaborative

- Brisbane Diamantina Health Partners Evidence and Innovation in Clinical Care Theme Leadership Group
- Queensland Heart Failure Service Steering Committee (Co-chair), Cardiac Outcomes Registry Steering Committee (Co-Chair), and Heart Failure Reporting Outcomes registry (Chair)
- Queensland Cardiovascular Research Network Steering Committee

## 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)
Roberts, Tiffany	MPhil	Rural Hospital Chart Audit on Cardiac Investigations	<b>Adam Scott</b> , Robert Mullins
Martin, Curtis	Honours	Remote Control Exercise Stress Testing	<b>Adam Scott</b>
<b>Guppy-Coles, Kris</b>	PhD, UQ (2013-2017)	Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening	<b>John Atherton</b> , <b>Sandhir Prasad</b> , Arnold Ng
Poulter, Rohan	PhD, UQ (from 2012) (part-time, deferred)	Evaluating the diagnostic performance of dual energy cardiac computed tomography.	<b>John Atherton</b> , <b>John Younger</b>
<b>Lo, Ada</b>	PhD, UQ (from 2014) (part-time)	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression.	<b>John Atherton</b> , Arnold Ng, William Wang
<b>Lancini, Daniel</b>	PhD, UQ (from 2015) (part-time)	Atrial fibrillation in the hospital setting.	<b>Paul Martin</b> , <b>Sandhir Prasad</b> , <b>John Atherton</b> , <b>Louise Cullen</b> , <b>Robert Boots</b>
<b>Prasad, Sandhir</b>	PhD, UQ (from 2017) (part-time)	Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis.	<b>John Atherton</b> , <b>John Younger</b>
Conradie, Andre	MPhil, UQ (from 2016) (part-time)	Determining an absolute risk model (calculator) to optimise the use of DAPT in patients presenting with acute coronary artery syndromes.	<b>John Atherton</b> , <b>Stephen Worthley</b>
Wicramasingha Arachchilage, Nuwan	Master App Sci (Res), QUT (from 2017)	The clinical utility of salivary galectin-3 in heart failure.	Chamindie Punyadeera, Nathan Subramaniam, <b>John Atherton</b>
McCreanor, Victoria	PhD, QUT	Identifying high value care for stable coronary artery disease in Australia. Prof Nick Graves.	N Graves, A Barnett, <b>W Parsonage</b>
Foran, Laura	MPhil, QUT	Clinical presentation characteristics of Aboriginal and Torres Strait Islander patients presenting to an Emergency Department with suspected Acute Coronary Syndrome	R Mahoney, <b>W Parsonage</b> , M Gattton, <b>L Cullen</b>

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>William Parsonage</b>	Professor and Clinical Director	Australian Centre for Health Service Innovation	QUT (2016-)
<b>Adam Scott</b>	Adjunct Professor	Faculty of Health	QUT (2009–2018)
<b>John Atherton</b>	Professor of Cardiology and Heart Failure Management	Faculty of Science, Health, Education and Engineering	University of Sunshine Coast (2017-2020)
<b>John Atherton</b>	Honorary Fellow	Department of Medicine, Royal Melbourne Hospital, Faculty of Medicine, Dentistry and Health Sciences	The University of Melbourne (2017-2021)

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Adam Scott</b>	<b>Adam Scott, Alice McDonald, Tiffany Roberts, John Atherton, Paul Scuffham</b>	Tele-Cardiac Investigations to support rural/regional hospitals
<b>Kris Guppy-Coles, John Atherton, Sandhir Prasad</b>	<b>Arun Dahiya, Arnold Ng, Kym Smith, Ada Lo, Sam Hillier</b>	Novel 3D echocardiography techniques of left ventricular functional assessment: utilisation in routine clinical practice and screening
<b>Ada Lo, John Atherton</b>	<b>Arnold Ng, William Wang, Sandhir Prasad</b>	Identification of new echocardiographic parameters in distinguishing between familial cardiomyopathy genotypic positive patients with and without phenotypic expression.
<b>Sandhir Prasad, John Atherton, John Younger</b>	<b>Liza Thomas, Tony Stanton, James Anderson, Ada Lo, Joanne Sippel, Christopher Kwan, Kym Smith</b>	Left ventricular diastolic dysfunction following myocardial infarction: prevalence, predictors and prognosis.
<b>Sandhir Prasad, John Atherton, Kristyan Guppy-Coles, Po-Ling Inglis, Joanne Sippel</b>	<b>Kym Smith, Ada Lo, Arun Dahiya</b>	Evaluation of oncology staff performing 3D-echocardiographic left ventricular function assessment for monitoring chemotherapy-induced cardiotoxicity.
Sanjoy Paul, Olga Montvida, <b>John Atherton</b>	<b>Kerenaftali Klein, Julius Agbeve</b>	Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes.
Cullen L, Parsonage W, McCormack L, Grenslade J	<b>Cullen L, Parsonage W, McCormack L, Milburn T, Starmer G, Stone R, Starmer K, Greenslade J</b>	The impact of ImpACT: A protocol to improve emergency chest pain assessment
<b>Daniel Lancini, Paul Martin, Sandhir Prasad</b>	<b>Rob Boots</b>	New onset atrial fibrillation in the critically ill
<b>Daniel Lancini, Paul Martin, Sandhir Prasad</b>	<b>Louise Cullen, Jaimi Greenslade</b>	Atrial fibrillation in the emergency chest pain presentation
<b>Arun Dahiya, Rick Jackson (Logan Hospital)</b>	<b>Arun Dahiya</b>	Advanced Cardiovascular Imaging in Patients with Myotonic Dystrophy.

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
<b>Alison Mudge, Charles Denaro, Adam Scott, Julie Adsett</b> , Robert Mullins, G Javorsky, <b>John Atherton</b> , Paul Scuffham, Thomas Marwick, Peter O'Rourke (Department of Internal Medicine and Aged care)	<b>Adam Scott, John Atherton</b>	A supervised exercise programme following hospitalisation for heart failure: does it add to disease management?
Mary Courtney, Jo Wu, Steven McPhail, <b>John Atherton</b> (ACU)	<b>John Atherton</b>	The Cardiac/Diabetes TRANS-CARE Project
Jo Wu, <b>John Atherton</b> , Anne Chang, Mary Courtney, Esben Strodl, Steven McPhail (QUT)	<b>John Atherton</b>	Improving delivery by Ehealth- Assurance for Life (IDEAL)
Chamindie Punyadeera, <b>John Atherton</b> , Benjamin Schulz, Goce Dimeski, Karam Kostner (QUT)	<b>John Atherton</b>	Novel diagnostics for heart failure
Robyn Clark, Vincent Versace, Munir Chowdhury, Alexandra McCarthy, <b>John Atherton</b> , Bogda Koczwara, David Roder (Flinders University)	<b>John Atherton</b>	Characteristics of haematologic and breast cancer patients (1996-2009) who died of heart failure-related causes with and without a prior heart failure hospitalization- A linked health data analysis.
Robyn Clark, Alexandra McCarthy, Robyn Peters, <b>John Atherton</b> (Metro South HHS)	<b>John Atherton</b>	A retrospective clinical audit of medical records to examine the journey through the healthcare system of patients who have developed cardiomyopathy after anticancer therapy.
Robyn Clark, Alexandra McCarthy, <b>John Atherton</b> , Bogda Koczwara, Narelle Berry, Tania Marin, Kerri Gillespie, Jonathon Foote, Sina Vatandoust. (Flinders University)	<b>John Atherton</b>	Development of a cardiotoxicity cardiovascular risk assessment tool.

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Sanjoy Paul, Olga Montvida, <b>John Atherton</b> , Kerenaftali Klein, Julius Agbeve (QIMR)	<b>John Atherton</b>	Evaluation of the association of old and new anti-diabetes drugs with the risk of heart failure in patients with type 2 diabetes.
Joseph Selvanayagam, Sanjay Prasad, Andrew McGavigan, Graham Hillis, Werner Jung, Laurent Billot, Suchi Grover, <b>John Atherton</b> (SAHMRI)	<b>John Atherton, John Younger, Paul Martin</b>	Cardiovascular Magnetic Resonance GUIDEd management of mild-moderate left ventricular systolic Heart Failure (CMR GUIDE HF).
Briffa T, <b>Cullen L</b> , Chew D, Knuiman M, Fatovich D, Hickman P, <b>Parsonage W</b> , Nedkoff L, Sanfilippo F, Hillis G, Mitra B, Wilkes G, Schneider H, Rankin J, Karnon J, Scanlan S, Stapleton S, Mather V.	<b>William Parsonage, Louise Cullen</b>	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?
Elizabeth Sullivan, Rachael Cordina, Dominica Zentner, Michael Peek, Rachael Cordina, Lisa Simmons, Lawrence Lam, David Celermajer, Wendy Pollock, <b>Karin Lust</b> , Jon Hyett, <b>William Parsonage</b> , Zhuoyang Li	<b>William Parsonage</b>	Australasian Maternity Outcomes Surveillance System (AMOSS) longitudinal study of first-time NSW/ACT mothers with heart disease and their babies
Jodie Ingles, Christopher Semsarian, <b>John Atherton</b> , Rajesh Puranik, Tim Driscoll, Aldo Saavedra, Alexander Judge, Ron Grunstein, David Sullivan, Amanda Salis (University of Sydney)	<b>John Atherton</b>	Nonfamilial hypertrophic cardiomyopathy

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Tom Marwick, Liza Thomas, Andrew Taylor, Andrew Spencer, Andre La Gerche, Con Tam, Sherene Loi, Peter Mollee, <b>John Atherton</b> , Paul Harnett (Baker IDI)	<b>John Atherton, Sandhir Prasad, Joanne Sippel, Arun Dahiya, Louise McCormack, John Younger</b>	Benefit of 2D-strain surveillance in improving cardiovascular outcomes in cancer patients undergoing cardiotoxic chemotherapy.

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
<b>Adam Scott</b>	Outstanding Leadership in Research, Learning and Innovation Award,	CAHRLI (Collaboration for Allied Health Research, Learning and Innovation) Conference, Qld Health, Australia.
<b>Daniel Lancini</b>	Queensland Health's Junior Doctor Research Fellowship	Health Innovation, Investment and Research Office, Department of Health

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Briffa T, <b>Cullen L</b> , Chew D, Knuiman M, Fatovich D, Hickman D, <b>Parsonage P</b> , <b>W</b> , Nedkoff L, Sanfilippo F, Hillis G, Mitra B, Wilkes G, Schneider H, Rankin J, Karnon J, Scanlan S, Stapleton S, Mather V.	Cardiology and Emergency Medicine	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?	National Health & Medical Research Council (Project Grant APP1122792)	\$29,925.00	\$1,197,000.00
T Marwick, L Thomas, A Taylor, A Spencer, A La Gerche, C Tam, S Loi, P Mollee, <b>J Atherton</b> , P Harnett.	Cardiology and Oncology	Benefit of 2D-strain surveillance in improving cardiovascular outcomes in cancer patients undergoing cardiotoxic chemotherapy.	National Health & Medical Research Council (Project Grant APP 1119955)	\$478,395.80	\$2,391,979.00 (5 years: 2017-2021)



INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Adam Scott, John Atherton</b>	Tele-Cardiac Investigations/ Cardiology RBWH	Statewide Tele-Cardiac Investigations	Health Improvement Unit, Metro North HHS, Qld Health	\$543,000.00	\$1.629 million (3 years)
<b>Cullen L, Parsonage W, McCormack L, Milburn T, Starmer G, Stone R, Starmer K, Greenslade J</b>	Cardiology and Emergency Medicine	The impact of ImpACT: A protocol to improve emergency chest pain assessment.	Australian Centre for Health Service Innovation (AusHSI Partnership Grant)	\$36 666.00	\$110 000
<b>P Donovan, I Coombes, C Denaro, J Atherton, M Barras, B Tai.</b>	RBWH Clinical Pharmacology, Pharmacy, Internal Medicine and Aged Care, Cardiology	Development of a therapeutic range for enoxaparin in patients with renal impairment.	Royal Brisbane and Women's Hospital 2017 Research Project Grant	\$40,000.00	\$40,000.00 (1 year: 2017)

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Bagai A, Goodman SG, Cantor W, Vicaut E, Bolognese L, Cequier A, Chettibi M, <b>Hammett CJ</b> , Huber K, Janzon M, Lapostolle F, Lassen JF, Merkely B, Storey RF, ten Berg J, Zeymer U, Diallo A, Hamm C, Tsatsaris A, El Khoury J, van't Hof A, Montalescot G. Duration of Ischemia and Treatment Effects of Pre- Versus In-Hospital Ticagrelor in Patients with ST-Segment Elevation Myocardial Infarction: Insights from the ATLANTIC study. <i>Am Heart J</i> 2017; 196: 56-64
Journal article	Cayla G, Lapostolle F, Ecollan P, Stibbe O, Benezet J, Henry P, <b>Hammett CJ</b> , Lassen J, Storey R, Berg J, Hamm C, van't Hof A, Montalescot G, for the Action Study Group. Pre-Hospital ticagrelor in ST-segment elevation myocardial infarction in the French Atlantic population. <i>Int J Cardiol</i> 2017; 244:49-53
Journal article	Fabris E, van't Hof A, Hamm C, Lapostolle F, Lassen JF, Goodman S, ten Berg J, Bolognese L, Cequier A, Chettibi M, <b>Hammett C</b> , Huber K, Janzon M, Merkely B, Storey R, Zeymer U, Cantor W, Rousseau H, Vicaut E, Montalescot G. Impact of presentation and transfer delays on complete ST-segment resolution before primary percutaneous coronary intervention: insights from the ATLANTIC trial. <i>Eurointervention</i> 2017; 13:69-77
Journal article	Greenslade JH, Nayer R, <b>Parsonage W</b> , Doig S, Young J, Pickering JW, Than M, <b>Hammett C</b> , Cullen L. Validating the Manchester Acute Coronary Syndromes (MACS) and Troponin-only-Manchester Acute Coronary Syndromes (T-MACS) rules for prediction of acute myocardial infarction in patients presenting to Emergency with chest pain. <i>Emergency Medicine Journal</i> 2017; 34(8) 517-523
Journal article	Ruane L, Greenslade JH, <b>Parsonage W</b> , Hawkins T, <b>Hammett CJ</b> , Lam C, Knowlman T, Doig S, Cullen C. Differences in presentation, management and outcomes in women and men presenting to an emergency department with possible cardiac chest pain. <i>Heart, Lung and Circulation</i> 2017; 26: 1282-90
Journal article	Astley C, Ranasinghe I, Brieger D, Ellis C, Redfern J, Briffa T, Aliprandi-Costa B, Howell T, Bloomer SG, Gamble G, Driscoll A, Hyun K, <b>Hammett CJ</b> , Chew DP. Expertise and Infrastructure capacity impacts acute coronary syndrome outcomes. <i>Australian Health Review</i> 2017; Published online 20 April 2017
Journal article	Brooks M, Ellis C, Gamble G, Devlin G, Elliott J, <b>Hammett C</b> , Chew D, French J, Briffa T, Redfern J, Rankin J, Hyun K, D'Souza M, Brieger D. A Comparison of Radial and Femoral Coronary Angiography in Patients From SNAPSHOT ACS, a Prospective Acute Coronary Syndrome Audit in Australia and New Zealand. <i>Heart, Lung and Circulation</i> 2017;26(3) 258-267

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Etaher A, Chew DP, Redfern J, Briffa TG, Ellis C, <b>Hammett CJ</b> , Lefkovits J, Elliott J, Cullen L, Brieger D, French JK. 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 and Circulation</i> 2017; 26:1051-1058
Journal article	Knowlman T, Greenslade JH, Parsonage W, Hawkins T, Ruane L, Martin P, <b>Prasad S</b> , Lancini D, Cullen L. <i>Acad Emerg Med.</i> 2017 Mar;24(3):344-352. doi: 10.1111/acem.13123 The Association of Electrocardiographic Abnormalities and Acute Coronary Syndrome in Emergency Patients With Chest Pain.
Journal article	Go G, Davies KT, O'Callaghan C, Senior W, Kostner K, Fagermo N, <b>Prasad SB</b> . Negative predictive value of Dobutamine stress echocardiography for perioperative risk stratification in patients with cardiac risk factors and reduced exercise capacity undergoing non-cardiac surgery. <i>Intern Med J.</i> 2017 Dec;47(12):1376-1384. doi: 10.1111/imj.13629
Journal article	<b>S Binny, S Tomlinson, C Hammett, A Dahiya, E Pillai, SB Prasad.</b> A rare case of a pericardial mass: Myeloid sarcoma from relapsed acute monoblastic leukaemia without bone marrow involvement. <i>Australasian Journal of Ultrasound in Medicine</i> 20 (4), 178-1
Journal article	<b>SB Prasad.</b> Echocardiography: The Normal Examination and Echocardiographic Measurements (3rd edn) Bonita Anderson RRP: \$159.00 ISBN 9780992322212 . <i>Australasian Journal of Ultrasound in Medicine</i> 20 (2), 91-91
Journal article	<b>Koitka K, Dahiya A, Lo A, Scalia GM, Atherton JJ, Prasad SB.</b> Myofibrillar cardiomyopathy due to a novel desmin gene mutation: Complementary role of echocardiography, cardiac magnetic resonance and genetic testing in delineating diagnosis. CASE: Cardiovascular Imaging Case Reports 2017;1(1):23-7.
Journal article	Bing R, Goodman S, Yan A, Fox K, Gale CP, Hyun K, D'Souza M, Shetty P, <b>Atherton J, Hammett C</b> , Chew D, Brieger D. Clinical risk stratification in non-ST elevation acute coronary syndromes - an analysis from the CONCORDANCE registry. <i>Eur Heart J Qual Care Clin Outcomes</i> 2017 (in press)- accepted 29/12/17.
Journal article	<b>Mudge AM, Denaro CP, Scott AC,</b> Meyers D, <b>Adsett JA,</b> Mullins RW, <b>Suna JM, Atherton JJ,</b> Marwick TH, Scuffham P, O'Rourke P. Addition of supervised exercise training to a post-hospital disease management program for patients recently hospitalized with acute heart failure: the EJECTION-HF randomized phase 4 trial. <i>JACC Heart Failure</i> 2017 (in press)- accepted 28/11/17.
Journal article	<b>Chan J, Chao C, Younger J, Lo A, Dahiya A, Atherton JJ,</b> Jalali H, <b>Prasad S.</b> Eustachian valve endocarditis: case report and literature review. <i>Australasian Journal of Ultrasound in Medicine</i> 2017 (in press)- accepted 1/11/17. doi: 10.1002/ajum.12078
Journal article	Donald KM, Troughton R, Dahlstrom U, Dargie H, Krum H, van der Meer P, McDonagh T, <b>Atherton J,</b> San George R, Kupfer K, Richards M, Doughty R. Daily home B-type natriuretic peptide monitoring in heart failure for prediction of impending clinical deterioration: Results from the HOME HF study. <i>Eur J Heart Fail</i> 2017 (in press)- accepted 27/9/17.
Journal article	Montvida O, Shaw J, <b>Atherton JJ,</b> Stringer F, Paul SK. Long-term trends in antidiabetic drug usage in the US: Real-world evidence in patients newly diagnosed with type 2 diabetes. <i>Diabetes Care</i> 2017 (in press)- accepted 26/9/17. doi:10.2337/dc17-1414
Journal article	Chow CK, Thiagalingam A, Santo K, Kok C, Thakkar J, Stepien S, Billot L, Jan S, Joshi R, Hillis GS, Brieger D, Chew DP, Rådholm K, <b>Atherton JJ,</b> Bhindi R, Collins N, Coverdale S, Hamilton-Craig C, Kangaharan N, Maiorana A, McGrady M, Shetty P, Thompson P, Wates J, Rogers A, Redfern J. TEXT messages to improve MEDication adherence and Secondary prevention (TEXTMEDS) after acute coronary syndrome: a randomised clinical trial protocol. <i>BMJ Open</i> 2017 (in press)- accepted 11/9/17.
Journal article	Clark RA, Marin TS, Berry NM, <b>Atherton JJ,</b> Foote JW, Koczwara B. Cardiotoxicity and cardiovascular disease risk assessment for patients receiving breast cancer treatment. <i>Cardio-Oncology</i> 2017;3:6. DOI 10.1186/s40959-017-0025-7. Accepted 5/9/17.
Journal article	Richardson E, Spinks C, Davis A, Turner C, <b>Atherton J, McGaughan J,</b> Semsarian C, Ingles J. Psychosocial implications of living with catecholaminergic polymorphic ventricular tachycardia in adulthood. <i>2017 J Genet Couns</i> 2017 (in press)- accepted 1/9/17.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Zhang X, Walsh T, <b>Atherton JJ</b> , Kostner K, Schulz B, Punyadeera C. Identification and validation of a salivary protein panel to detect heart failure early. <i>Theranostics</i> 2017;7:4,350-8. (in press)- accepted 24/8/17.
Journal article	Franzon J, Berry N, Ullah S, Versace V, McCarthy A, <b>Atherton J</b> , Roder D, Kocswara B, Coghlan D, Clark R. Heart failure following blood cancer therapy in pediatric and adult populations. <i>Asia Pac J Clin Oncol</i> 2017 (in press)- accepted 21/8/17.
Journal article	Sweeting J, Ball K, <b>McGaughran J</b> , <b>Atherton J</b> , 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 (in press)- accepted 29/5/17. doi: 10.1177/1474515117715760. PMID: 28613082.
Journal article	Fatkin D, Johnson R, <b>McGaughran J</b> , Weintraub RG, <b>Atherton JJ</b> on behalf of the CSANZ Genetics Council Writing Group. Position statement on the diagnosis and management of familial dilated cardiomyopathy. <i>Heart Lung Circ</i> 2017 (in press)- accepted 10/5/17. doi: 10.1016/j.hlc.2017.04.021. PMID: 28655534.
Journal article	<b>Atherton JJ</b> , Hickey A. Is medication titration in heart failure too complex? <i>Cardiac Failure Review</i> 2017;3:25-32. accepted 22/2/17 (guest editorial). doi: 10.15420/cfr.2017:1:2. PMID: 28785472.
Journal article	Ingles J, Burns C, Bagnall RD, Lam L, Yeates L, Sarina T, Puranik R, Briffa T, <b>Atherton JJ</b> , Driscoll T, Semsarian C. Non-familial hypertrophic cardiomyopathy: prevalence, natural history and clinical implications. <i>Circ Cardiovasc Genet</i> 2017 (in press)- accepted 15/2/17. doi: 10.1161/CIRCGENETICS.116.001620. PMID: 28408708
Journal article	Wu C-J, Sung H-C, Chang A, <b>Atherton J</b> , Kostner K, McPhail SM. Cardiac-diabetes self-management program for Australians and Taiwanese: A randomized block design study. <i>Nurs Health Sci</i> 2017 (in press). accepted 2/2/17. doi: 10.1111/nhs.12346. PMID: 28544230.
Journal article	Wu C-J, <b>Atherton JJ</b> , Maclsaac R, Courtney M, Chang AM, Thompson DR, Kostner K, Maslsaac A, D'Emden M, Graves N, McPhail SM. Effectiveness of the Cardiac-Diabetes Transcare Program: Protocol for a randomised controlled trial. <i>BMC Health Serv Res</i> 2017;17:109. doi: 10.1186/s12913-017-2043-4.
Journal article	Pieske B, Maggioni AP, Lam CSP, Pieske-Kraigher E, Filippatos G, Butler J, Ponikowski P, Shah SJ, Solomon SD, Scalise AV, Mueller K, Roessig L, Gheorghide M. Vericiguat in patients with worsening chronic heart failure and preserved ejection fraction: results of the SOLuble guanylate Cyclase stimulator in heart failure patients with PRESERVED EF (SOCRATES-PRESERVED). <i>Eur Heart J</i> 2017;38:1119–27. doi:10.1093/eurheartj/ehw593.
Journal article	Association of High-Sensitivity Cardiac Troponin I Concentration With Cardiac Outcomes in Patients With Suspected Acute Coronary Syndrome. Chapman AR, Lee KK, McAllister DA, Cullen L, Greenslade JH, <b>Parsonage W</b> , Worster A, Kavsak PA, Blankenberg S, Neumann J, Sørensen NA, Westermann D, Buijs MM, Verdel GJE, Pickering JW, Than MP, Twerenbold R, Badertscher P, Sabti Z, Mueller C, Anand A, Adamson P, Strachan FE, Ferry A, Sandeman D, Gray A, Body R, Keevil B, Carlton E, Greaves K, Korley FK, Metkus TS, Sandoval Y, Apple FS, Newby DE, Shah ASV, Mills NL. <i>JAMA</i> . 2017 Nov 21;318(19):1913-1924. doi: 10.1001/jama.2017.17488. Review. PubMed PMID: 29127948
Journal article	ICare-ACS (Improving Care Processes for Patients With Suspected Acute Coronary Syndrome): A Study of Cross-System Implementation of a National Clinical Pathway. Than MP, Pickering JW, Dryden JM, Lord SJ, Aitken SA, Aldous SJ, Allan KE, Ardagh MW, Bonning JWN, Callender R, Chapman LRE, Christiansen JP, Cromhout APJ, Cullen L, Deely JM, Devlin GP, Ferrier KA, Florkowski CM, Frampton CMA, George PM, Hamilton GJ, Jaffe AS, Kerr AJ, Larkin GL, Makower RM, Matthews TJE, <b>Parsonage WA</b> , Peacock WF, Peckler BF, van Pelt NC, Poynton L, Richards AM, Scott AG, Simmonds MB, Smyth D, Thomas OP, To ACY, Du Toit SA, Troughton RW, Yates KM; ICare-ACS Implementation Group. <i>Circulation</i> . 2018 Jan 23;137(4):354-363. doi:10.1161/CIRCULATIONAHA.117.031984. Epub 2017 Nov 14 PubMed PMID: 29138293
Journal article	A Risk Assessment Score and Initial High-sensitivity Troponin Combine to Identify Low Risk of Acute Myocardial Infarction in the Emergency Department. Pickering JW, Flaws D, Smith SW, <b>Parsonage W</b> , Carlton E, Mark Richards A, Troughton R, Pemberton C, George PM, Than MP. <i>Acad Emerg Med</i> . 2017 Nov 13. doi: 10.1111/acem.13343. [Epub ahead of print] PubMed PMID: 29131477.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Implementing change: evaluating the Accelerated Chest pain Risk Evaluation (ACRE) project. <b>Parsonage WA</b> , Milburn T, Ashover S, Skoien W, Greenslade JH, <b>McCormack L</b> , Cullen L. Med J Aust. 2017 Aug 4;207(5):201-205. PubMed PMID: 28987133.
Journal article	Modification of the Thrombolysis in Myocardial Infarction risk score for patients presenting with chest pain to the emergency department. Greenslade JH, Chung K, <b>Parsonage WA</b> , Hawkins T, Than M, Pickering JW, Cullen L. Emerg Med Australas. 2017 Dec 12. doi: 10.1111/1742-6723.12913. [Epub ahead of print]PubMed PMID: 29232768.
Journal article	External validation of heart-type fatty acid binding protein, high-sensitivity cardiac troponin, and electrocardiography as rule-out for acute myocardial infarction. Van Hise CB, Greenslade JH, <b>Parsonage W</b> , Than M, Young J, Cullen L. Clin Biochem. 2017 Oct 18. PubMed PMID: 29054440.
Journal article	Improved Assessment of Chest pain Trial (IMPACT): assessing patients with possible acute coronary syndromes. Cullen L, Greenslade JH, Hawkins T, <b>Hammett C</b> , O'Kane S, Ryan K, Parker K, Schluter J, Dalton E, Brown AF, Than M, Peacock WF, Jaffe A, O'Rourke PK, <b>Parsonage WA</b> . Med J Aust. 2017 Aug 4;207(5):195-200. PubMed PMID: 28987132.
Journal article	Assessment of the 2016 National Institute for Health and Care Excellence high-sensitivity troponin rule-out strategy. Carlton EW, Pickering JW, Greenslade J, Cullen L, Than M, Kendall J, Body R, <b>Parsonage WA</b> , Khattab A, Greaves K. Heart. 2017 Sep 1. [Epub ahead of print] PubMed PMID: 28864718.
Journal article	Characteristics and occurrence of type 2 myocardial infarction in emergency department patients: a prospective study. Greenslade JH, Adikari T, Mueller C, Sandoval Y, Nestelberger T, <b>Parsonage W</b> , Hawkins T, Cullen L. Emerg Med J. 2017 Aug 7. [Epub ahead of print] PMID: 28784608.
Journal article	Rational clinical evaluation of suspected acute coronary syndromes: The value of more information. Hancock DG, Chuang MA, Bystrom R, Halabi A, Jones R, Horsfall M, Cullen L, <b>Parsonage WA</b> , Chew DP. Emerg Med Australas. 2017 Jun 2. [Epub ahead of print] PubMed PMID: 28574204.
Journal article	The organisational value of diagnostic strategies using high-sensitivity troponin for patients with possible acute coronary syndromes: a trial-based cost-effectiveness analysis. Jülicher P, Greenslade JH, <b>Parsonage WA</b> , Cullen L. BMJ Open. 2017 Jun 9;7(6):e013653.
Journal article	Cardiac Troponin and Exercise; Still Much to Learn. <b>Parsonage WA</b> , Ruane L. Heart Lung Circ. 2017 Jul;26(7):645-647 PubMed PMID: 28578913.
Journal article	Direct Comparison of 2 Rule-Out Strategies for Acute Myocardial Infarction: 2-h Accelerated Diagnostic Protocol vs 2-h Algorithm. Wildi K, Cullen L, Twerenbold R, Greenslade JH, <b>Parsonage W</b> , Boeddinghaus J, Nestelberger T, Sabti Z, Rubini-Giménez M, Puelacher C, Cupa J, Schumacher L, Badertscher P, Grimm K, Kozhuharov N, Stelzig C, Freese M, Rentsch K, Lohrmann J, Kloos W, Buser A, Reichlin T, Pickering J, Than M, Mueller C. Clin Chem. 2017 May 17. [Epub ahead of print] PubMed PMID: 28515106
Journal article	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. Pickering JW, Than MP, Cullen L, Aldous S, Ter Avest E, Body R, Carlton EW, Collinson P, Dupuy AM, Ekelund U, Eggers KM, Florkowski CM, Freund Y, George P, Goodacre S, Greenslade JH, Jaffe AS, Lord SJ, Mokhtari A, Mueller C, Munro A, Mustapha S, <b>Parsonage W</b> , Peacock WF, Pemberton C, Richards AM, Sanchis J, Staub LP, Troughton R, Twerenbold R, Wildi K, Young J. Ann Intern Med. 2017 May 16;166(10):715-724.
Journal article	Panic Disorder in Patients Presenting to the Emergency Department with Chest Pain: Prevalence and Presenting Symptoms. Greenslade JH, Hawkins T, <b>Parsonage W</b> , Cullen L. Heart Lung Circ. 2017 Feb 16. [Epub ahead of print] PubMed PMID: 28256404.
Journal article	A 61-Year-Old Woman with Muscle Fatigue and Increased Cardiac Troponin. <b>Parsonage WA</b> , Mikli JE, Nisbet JC, Hamilton-Craig C, Marshall GA Clin Chem. 2017 Jan;63(1):45-47
Journal article	Factors influencing choice of pre-hospital transportation of patients with potential acute coronary syndrome: An observational study. Lavery T, Greenslade JH, <b>Parsonage WA</b> , Hawkins T, Dalton E, Hammett C, Cullen L. Emerg Med Australas. 2017 Jan 25. doi: 10.1111/1742-6723.12735. [Epub ahead of print]

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Immediate Rule-Out of Acute Myocardial Infarction Using Electrocardiogram and Baseline High-Sensitivity Troponin I. Neumann JT, Sørensen NA, Ojeda F, Schwemer T, Lehmacher J, Gönner S, Jarsetz N, Keller T, Schaefer S, Renné T, Landmesser U, Clemmensen P, Makarova N, Schnabel RB, Zeller T, Karakas M, Pickering JW, Than M, <b>Parsonage W</b> , Greenslade J, Cullen L, Westermann D, Blankenberg S. Clin Chem. 2017 Jan;63(1):394-402.
Book Chapter	'Cardiac disease in pregnancy' in 'Examination Obstetrics and Gynecology' 4th Edition 2017 Eds. Goh J and Flynn M. Elsevier ISBN 9780729542524
Journal Article	Hamilton-Craig CR, Chow CK, <b>Younger JF</b> , Jelinek VM, Chan J, Liew GY. Cardiac Society of Australia and New Zealand position statement executive summary: coronary artery calcium scoring. Med J Aust. 2017 Oct 16;207(8):357-361
Journal Article	Leung B, <b>Younger JF</b> , Stockton K, Muller M, Paratz J. Cardiovascular risk profile in burn survivors. Burns. 2017 Nov;43(7):1411-1417
Journal Article	Liew G, Chow C, van Pelt N, <b>Younger J</b> , Jelinek M, Chan J, Hamilton-Craig C Cardiac Society of Australia and New Zealand Position Statement: Coronary Artery Calcium Scoring. Heart Lung Circ. 2017 Dec;26(12):1239-1251

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Hammett C.</b> Premature Interruption of DAPT: Data Update on BMS, DES, Resorbable Polymer DES, Bioresorbable Vascular Scaffold. Cardiac Society of Australia and New Zealand 65th Annual Scientific Meeting, Perth 11 August 2017
Oral Invited	<b>Hammett C.</b> The 2017 ESC STEMI Guidelines. STEMI Experts Forum 2017. Sydney 15 September 2017.
Oral Invited	<b>Hammett C.</b> 2017 PCI update. Cardiology Congress Round Up. Sydney 16 September 2017.
Oral Invited	<b>Hammett C.</b> Controversies in medical therapy post-ACS (Beta-Blockers, DAPT duration, NOACs and DAPT). ACS Systems of Care Expert forum 2017, Brisbane 22-23 July 2017.
Oral Invited	<b>Hammett C.</b> AF and ACS – how to balance competing needs (plenary talk and workshops). Bayer Thrombosis College Cardiovascular Alliance 3rd Annual Meeting, Sydney 6-7 May 2017.
Oral Invited	<b>Prasad SB.</b> Echocardiography for Cardiac Amyloid. ASUM Surf, Sand and Soundwaves Conference, Kingscliff, NSW (March 2017).
Oral Invited	<b>Prasad SB.</b> Diastolic Stress Echocardiography. ASUM Surf, Sand and Soundwaves Conference, Kingscliff, NSW (March 2017).
Oral Invited	<b>Prasad SB.</b> Rare Cardiomyopathies ASUM Surf, Sand and Soundwaves Conference, Kingscliff, NSW (March 2017)
Oral Invited	<b>Prasad SB.</b> Assessment of diastolic function, its value in CAD Cardiac Soc of Aust and NZ Imaging Symposium, Perth, WA (Aug 2017)
Oral Invited	<b>Prasad SB.</b> Echocardiography for Heart Failure with Preserved Ejection Fraction ASUM Annual Scientific Meeting, Melbourne, Vic (Nov 2017)
Oral Invited	<b>Prasad SB.</b> Co-arctation of the Aorta. ASUM Annual Scientific Meeting, Melbourne, Vic (Nov 2017)
Oral Invited	<b>Atherton JJ.</b> Multidisciplinary management of heart failure: The Queensland experience. Jilin University International Research Collaboration, Changchun, Jilin Province, China, November 2017.
Oral Invited	<b>Atherton JJ.</b> Enabling effective management for people with cardiac-diabetes conditions (joint presentation with Associate Professor Jo Wu). Jilin University International Research Collaboration, Changchun, Jilin Province, China, November 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Atherton JJ.</b> Cardiac friendly drugs for Type 2 diabetes- Relevant for which patients? The General Education Day, UQ Centre, University of Queensland, Brisbane, October 2017.
Oral Invited	<b>Atherton JJ.</b> Heart failure: Latest updates on investigations and management.15th Annual Cairns Hospital Cardiovascular Symposium, Cairns Convention Centre, Cairns, October 2017.
Oral Invited	<b>Atherton JJ.</b> The heart of diabetes: Reducing the risk of cardiovascular death in type 2 diabetes. Heart of Diabetes Webinar, Four Points by Sheraton, Brisbane (National webinar), October 2017.
Oral Invited	<b>Atherton JJ.</b> Cardiology congress roundup: Heart failure. European Society of Cardiology Highlights (Boehringer-Ingelheim sponsored educational meeting), Sydney, September 2017.
Oral Invited	<b>Atherton JJ.</b> Management of HFrEF- Recent guidelines.AstraZeneca sponsored dinner accompanying the European Society of Cardiology (ESC) Congress 2017, Barcelona, Spain, August 2017.
Oral Invited	<b>Atherton JJ.</b> What's hot in heart failure? (plenary session). 65th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Perth Convention Centre, Perth, August 2017.
Oral Invited	<b>Atherton JJ.</b> Sacubitril/valsartan (Entresto) in heart failure with a reduced LVEF: Challenging the treatment paradigm. 65th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Perth Convention Centre (Novartis stand), Perth, August 2017.
Oral Invited	<b>Atherton JJ.</b> Lessons learnt about ARNI; recent publications and practical implications for use. 65th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Perth Convention Centre (Novartis sponsored breakfast session), Perth, August 2017.
Oral Invited	<b>Atherton JJ.</b> Cardiac failure and diabetes: What you need to know; A cardiologist's perspective. Directions in Diabetes 2017, International Convention Centre, Sydney, July 2017.
Oral Invited	<b>Atherton JJ.</b> Panel discussion- Get with the guidelines- but how? How easy is it really to follow the guidelines? Heart Failure Congress 2017, Brisbane Convention and Exhibition Centre, Brisbane, June 2017.
Oral Invited	<b>Atherton JJ.</b> Medication titration strategies. Heart Failure Meet the Expert Web Broadcast, Riyadh, Saudi Arabia, May 2017. Topic:
Oral Invited	<b>Atherton JJ.</b> Optimisation of heart failure care. Heart Failure Meet the Expert Web Broadcast, Riyadh, Saudi Arabia, May 2017.
Oral Invited	<b>Atherton JJ.</b> The myth of stable heart failure. Heart Failure Meet the Expert Web Broadcast, Riyadh, Saudi Arabia, May 2017.
Oral Invited	<b>Atherton JJ.</b> Multidisciplinary management of heart failure: The Queensland experience. Australian Cardiovascular Nursing College (ACNC) Conference, Brisbane Convention and Exhibition Centre, Brisbane, March 2017.
Oral Invited	<b>Atherton JJ.</b> Network hopes and fears (discussion panel). Cardiac Society of Australia and New Zealand Cardiovascular Clinical Trials Network, Alfred Centre, Melbourne, February 2017.
Oral Invited	<b>Parsonage WA.</b> Australia and New Zealand College of Anaesthetists ASM, May 2017 'Cardiac disease in pregnancy: lessons from an international registry'
Oral invited	<b>Parsonage WA.</b> National Heart Foundation Australia, Women & Heart Disease Forum: Advances in understanding risk, diagnosis and management. Sydney, June 2017 'The burden of cardiac disease in pregnancy'
Oral invited	<b>Parsonage WA.</b> Society of Obstetric Medicine of Australia and New Zealand, ASM, Canberra, October 2017 'Heart Disease and Pregnancy'
Oral	Razak KA, Hawkins AM, Khoo TK, Tran K, Burrage MK, <b>Atherton JJ</b> , Challa VRP, <b>Dahiya A</b> , Jackson RV. Cardiac and respiratory dysfunction in myotonic dystrophy type 1 patents. Gold Coast Health Research Week Conference, Gold Coast, November 2017.
Oral	Paul SK, <b>Atherton J.</b> Real-world evaluation of the cardiovascular safety of novel anti-diabetes therapies in the UK and USA. Circulation 2017;136(Suppl 1): A18527.
Oral	<b>Koitzka K, Prasad S, Atherton J.</b> Myofibrillar myopathy due to a novel desmin gene mutation presenting with cardiac conduction abnormality and arrhythmias. Eur Heart J 2017;37:1425-6.
Oral	Paul S, Green JB, <b>Atherton J</b> , Montvida O. Risk of pancreatic diseases by second-line anti-diabetes drug class: Real world based evidence. Diabetologia 2017;60:S69-S70.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster (moderated)	Wu J, Courtney M, Chang A, <b>Atherton J</b> , Macisaac R, McPhail S. Integrity of a multi-site cardiac-diabetes transcare program. Asian Pacific Society of Cardiology Congress, Singapore, July 2017.
Poster	A Singularly Unique Problem in a Dual Pregnancy <b>W Peverill, W Parsonage, S Prasad</b> Heart, Lung and Circulation 26, S242
Poster	Eustachian Valve Endocarditis in an Intravenous Drug Use <b>JCP Loon, C Chao, S Prasad</b> Heart, Lung and Circulation 26, S260-S261
Poster	<b>Prasad SB, Lin A</b> , Stanton T, <b>Kwan C, Sippel J, Hammett C</b> , Thomas L, <b>Atherton J</b> . Diastolic dysfunction assessed by contemporary guidelines and prognosis following myocardial infarction. American Heart Association Scientific Sessions, Circulation 2017;136 (Suppl 1):A17066-A17066.
Poster	Razak KA, Hawkins AM, Khoo TK, Burrage MK, <b>Atherton JJ</b> , Challa VRP, Jackson RV, <b>Dahiya A</b> . Value of screening for cardiac abnormalities in myotonic dystrophy type 1 patients. International Myotonic Dystrophy Consortium Meeting (IDMC-11), San Francisco, California, September 2017.
Poster	Clark R, McCarthy A, Koczwara B, <b>Atherton J</b> . Cardiotoxicity after cancer treatment: A new frontier for cardio-prevention. Heart Lung Circ 2017;26(Suppl 2):S129-S130.
Poster	<b>Lin A, Armstrong J, Kwan C, Sippel J, Atherton J</b> , Thomas L, <b>Prasad S</b> . Prognostic utility of left atrial minimal volume indexed to body surface area following myocardial infarction. Heart Lung Circ 2017;26(Suppl 2):S270-S271.
Poster	<b>Lin A, Kwan C, Armstrong J, Sippel J</b> , Thomas L, <b>Atherton J, Prasad S</b> . Minimum left atrial volume shows a better correlation with invasively and non-invasively measured LV filling pressures than maximal left atrial volume in patients with myocardial infarction. Heart Lung Circ 2017;26(Suppl 2):S267.
Poster	Franz J, Berry N, Ullah S, Versace V, McCarthy A, <b>Atherton J</b> , Roder D, Koczwara B, Coghlan D, Clark R. Heart failure following blood cancer therapy in paediatric and adult populations. Heart Lung Circ 2017;26(Suppl 2):S135-S136.
Poster	Hickey A, <b>Adsett J, Atherton JJ, Denaro C</b> , Nunan T, Peters R. A state-wide approach to multidisciplinary care: heart failure evaluation and reporting of outcomes (HERO). Eur J Heart Fail 2017;19(S1):226.
Poster	Zhang X, Schulz B, Walsh T, <b>Atherton J</b> , Kostner K, Punyadeera C. Saliva: linking oral health with heart failure. Eur J Heart Fail 2017;19(S1):518.
Poster	<b>Lin A, Kwan C, Sippel J, Guppy-Coles K, Hammett C</b> , Thomas L, <b>Atherton JJ, Prasad SB</b> . E/e' is a powerful predictor of survival after a first-ever non-ST elevation myocardial infarction. Circulation 2016;134(Suppl 1):A11330.
Poster	<b>Binny S, Atherton J, McGaughran J, Noonan K, Lancini D, Martin P</b> . Brugada pattern resolution after endocardial ablation in a patient with Brugada ARVC Overlap: A case report in SCN5A variant Brugada syndrome. 9th Annual Asia-Pacific Heart Rhythm Society (APHRs) Scientific Session. COEX, Seoul, South Korea, October 2016.

# DEPARTMENT OF CLINICAL IMMUNOLOGY AND ALLERGY

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Dr Zihao Tan</b>	Dr Jeremy McComish	The effect of omalizumab on the basophil activation tests on a cohort of patients from a double blind, placebo-controlled, parallel design phase 3 study with 24 weeks treatment phase.

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Navarro, S, Lukas A. 9James Cook University, Cairns Campus)	<b>Dr Roger Prentice</b>	Suppression of chronic asthma with hookworm recombinant TIMP



# DEPARTMENT OF CLINICAL PHARMACOLOGY

The Department of Clinical Pharmacology has a number of research focuses, across multiple professional disciplines, reflecting the multidisciplinary makeup of the department. Research staff work collaboratively with the Department of Pharmacy, in areas related to medication safety, the quality use of medicines and the expanding professional role of pharmacists. Clinical Pharmacology continues to work collaboratively with other hospitals within Metro North Hospital and Health Service (Prince Charles Hospital) and Brisbane (Princess Alexandra Hospital).

In addition, the department continues to focus on the role of individualised feedback, of both nursing and medical staff, related to the safety of prescribing and administration of medicines. Karen Davies, Clinical Nurse Consultant for Medication Safety continues to pursue this work and continues with her PhD studies. We have completed our study related to individualised feedback on prescribing practices to medical interns, which produced remarkable improvements in safe prescribing. A particular focus of medication safety relates to inpatient anticoagulant use. A RBWH foundation grant was utilised to attempt to elucidate a therapeutic range for enoxaparin in renal impairment, a Metro North SEED grant is being used to pilot a Support Service for anticoagulant use in two units at RBWH and a systematic review is being undertaken to establish the evidence base for other interventions to improve this practice.

Further, we have started a large study, in collaboration, assessing the benefits of implementing an electronic prescribing system at RBWH and Caboolture Hospital. Lastly, Dr Donovan, Director of Clinical Pharmacology, continues to expand his research interests in the cost-effectiveness of health care and continues to work collaboratively with researchers from within and external to RBWH, including a successful NHMRC project grant in collaboration with, amongst others, QIMR Berghofer.

## 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)
Brooke Myers	PhD, UQ (2014-current)	Role of the Pharmacist on the Medical Post-Take Ward Round	<b>Ian Coombes</b> , Charles Mitchell, <b>Peter Donovan</b> , Jennifer Whitty
Karen Davies	PhD, UQ (2016-current)	Establishing the validity and reliability of a tool to test competency of nursing medication administration practice using an expert panel review and inter-rater and intra-rater reliability testing	<b>Karen Davies</b> , <b>Karen Whitfield</b> , <b>Ian Coombes</b> , <b>Samantha Keogh</b>

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Phillip Robinson (Rheumatology)</b>	<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b> , Nicola Dalbeth (University of Auckland, Auckland Hospital)	A Health Economic Analysis Of The American College Of Rheumatology Guideline To Monitor Serum Urate Every 6 Months After Reaching Target In Gout Treatment
<b>Ian Coombes (Pharmacy)</b>	<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b> , Michael Barras (Pharmacy), Charles Mitchel (UQ) Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell (Gold Coast University Hospital)	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback
<b>Hannah Farquhar (Medicine)</b>	<b>Don McLeod (Endocrinology)</b> <b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b> , <b>Roger Allison (Cancer Care)</b> , <b>Susan Thomas (Cancer Care)</b> , <b>Lee Tripcony (Cancer Care)</b>	Validating a response to therapy risk stratification system for Medullary Thyroid Cancer
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	Nicola Harper, Dr Danielle Stowasser, Natasha Truloff (Metro North IT), <b>Ian Coombes, (Pharmacy)</b> , <b>Charles Denaro (Internal Medicine)</b> , Timothy Dunn (Caboolture Hospital Pharmacy), Anita Pelecanos (QIMR Berghofer)	Evaluation of the Implementation of Electronic Prescribing using Interrupted Time-Series Analysis at Two Hospitals in Queensland
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	Michael Barras, (Princess Alexandra Hospital), <b>Ian Coombes, Jason Roberts, Ms Carla Scuderi (Pharmacy), Charles Denaro (Internal Medicine), John Atherton, Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)</b>	Development of a therapeutic range for enoxaparin in patients with renal impairment
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	<b>Ian Coombes, Glen Kennedy (Cancer Care Services), Alison Mudge (Internal Medicine), Champika Pattullo (Clinical Pharmacology)</b> , Bonnie Tai (Prince Charles Hospital)	Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	<b>Alison Mudge,</b> Jenny Martin (Uni Newcastle), Michael Barras (Princess Alexandra Hospital), <b>James Rowland, Champika Pattullo</b>	Interventions to improve safety and quality in the management of anticoagulants for therapeutic indications in hospital inpatients: systematic review

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children's Research Institute), Dr Katrina Spilsbury (Curtin University of Technology)	Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)	IMPROVE - Investigating Medication re-Purposing to Reduce risk of Ovarian cancer and Extend survival

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Karen Davies	Second runner-up Three Minute Thesis (3MT)	3MT Competition, School of Pharmacy, University of Queensland July 2017

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children's Research Institute), Dr Katrina Spilsbury (Curtin University of Technology), <b>Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	IMPROVE - Investigating Medication re- Purposing to Reduce risk of Ovarian cancer and Extend survival	National Health and Medical Research Council	\$246,104.40	\$438,313.20 (5 years)
Dr Peter Donovan, Michael Barras, (Princess Alexandra Hospital, University of Queensland), <b>Ian Coombes, Jason Roberts, Ms Carla Scuderi, Charles Denaro, John Atherton,</b> Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	Development of a therapeutic range for enoxaparin in patients with renal impairment	RBWH Foundation	\$40,000	
<b>Peter Donovan, Ian Coombes, Glen Kennedy, Alison Mudge, Champika Pattullo,</b> Bonnie Tai (Prince Charles Hospital)	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH	Metro North SEED and LINK grants	\$93,967	

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	<b>Chew R, Jongbloed S, Jegatheesan D, Healy H, Ta K</b> , Ungerer K, McWhhinney B, <b>Donovan P, Woods M</b> . Ethambutol Is a Dialysable Drug, and Drug Monitoring Ensures Safety and Therapeuticity. Antimicrobial Agents and Chemotherapy. April 2017. 61(6):AAC.01988-16. DOI 10.1128/AAC.01988-16.
Journal article	Myers B, Mitchell C, Whitty J, <b>Donovan P, Coombes I</b> . Prescribing and medication communication on the post-take ward round: Brief Communications. Internal Medicine Journal. April 2017: 47(4):454-457. DOI 10.1111/imj.13280.
Journal article	<b>Paradissis C, Coombes I, Donovan P, Doran E</b> , Mckean M, <b>Barras M</b> . The type and incidence of adverse drug events in ageing medical inpatients and their effect on length of hospital stay. Journal of Pharmacy Practice and Research. February 2017: 47(5). DOI 10.1002/jppr.1255.
Journal article	<b>Samantha Keogh CS, Julie Flynn, Karen Davies, Nicole Marsh</b> , Claire M Rickard. An observational study of nurses' intravenous flush and medication practice in the clinical setting. Vascular Access 2017;3(1):3--10.
Invited review	<b>Donovan P</b> . Access to Unregistered Drugs in Australia. Aust Prescr. 2017 Oct;40(5):194-196. DOI: 10.18773/austprescr.2017.062

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	<b>Mudge A, McRae P, Reade M, Donovan P, Walker P</b> . An interdisciplinary collaborative care model to improve care for older vascular surgical patients. Internal Medicine Society of Australia and New Zealand (IMSANZ) annual scientific meeting 2017 Hobart Australia

# GASTROENTEROLOGY & HEPATOLOGY DEPARTMENT

Our work has shown that a polyp type called sessile serrated adenoma accounts for approximately one quarter of all colorectal cancers and this knowledge has translated into major changes in colonoscopy practice. This year we have used our intestine-specific, inducible Braf mutant mouse model to demonstrate for the first time that it is the occurrence of the oncogenic Braf mutation which leads to the accumulation of locus-specific DNA methylation events over time and makes these polyps progress. We are now using this model to develop chemoprevention strategies as well as to understand the mechanism underlying these methylation changes.

- Endoscopy research included a multicentre randomised controlled trial into the effect of bowel preparation before video capsule endoscopy on the image quality and diagnostic yield of the study. This trial was initiated at RBWH and includes 5 sites in Australia and New Zealand, and we are currently enrolling patients. The outcome will give answers as to how to best prepare the small bowel before this procedure.
- Another trial with active RBWH endoscopy involvement is the AUSFAP trial, a multicentre randomised controlled trial into the efficacy of dietary butyrylated starch in patients with Familial Adenomatous Adenomatosis. This trial involves dietary supplementation with butyrate in the hope that this will reduce the growth of new or existing lower intestinal polyps. Patients undergo multiple sequential endoscopic procedures to measure the effect. We are getting near the end of the treatment phase of the trial but outcomes are not available yet.
- Collaboration in a multicentre ANZ audit into the adenoma detection rate as a quality indicator in colonoscopy – ongoing data collection and evaluation
- Regular audits of endoscopy performance (such as intubation rates, polyp detection rates) across the department, embedding KPIs into endoscopy practice
- Advancing the Australian experience with the new endoscopic suturing technology – application in complications from bariatric surgery

Richard Skoien has continued to explore translational aspects of hepatology research through his collaboration with Prof Grant Ramm (Hepatic Fibrosis Laboratory, QIMR-B Medical Research Institute). Ongoing projects include studying the roles of microRNAs as non-invasive biomarkers of hepatic fibrosis and cirrhosis-related complications (such as hepatocellular carcinoma and variceal bleeding) and the development of a novel blood test for diagnosing early liver cancer. He has also been prospectively assessing the impact of the Unit's streamlined Hepatoma and Compensated Cirrhosis Follow-up (HACC-FOL) surveillance program with a view to introducing it in other centres.

The Liver Clinical Trials Group, headed by PIs Barbara Leggett and Richard Skoien, remains an active participant in a range of international clinical trials examining new treatments for Chronic Hepatitis B and C, non-alcoholic fatty liver disease, hereditary haemochromatosis and hepatocellular carcinoma.

Inflammatory Bowel Diseases are continuing to increase in incidence across the Asia-Pacific. On average, 17 Australians will be diagnosed with Crohn's disease or ulcerative colitis every day of the year. Our GI research group has contributed to the development of genetic risk scores for stratifying IBD patients, and combining these with biomarkers to improve diagnostic accuracy. The group is also developing strategies to optimize the use of colonoscopy services by the development of risk assessment tools for primary and secondary healthcare providers.

## 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)
Cheng Liu	PhD, UQ (2016-)	Molecular characterisation of serrated precursors in colorectal carcinoma	Vicki Whitehall, <b>Barbara Leggett</b> , Mark Bettington, Neal Walker

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Jennifer Borowsky	PhD, UQ (2016-)	Morphological and Molecular Characterisation of KRAS-Mutant Colorectal Adenomas and Carcinomas	Vicki Whitehall, <b>Barbara Leggett</b> , Mark Bettington, Neal Walker, Ian Brown
Lochlan Fennell	PhD, USC (2017-)	Understanding the Mechanism Underlying the CpG Island Methylator Phenotype in BRAF Mutant Colorectal Cancer	Vicki Whitehall, <b>Barbara Leggett</b> , Renfu Shao, Min Zhao, Tianfang Wang
Alexandra Kane	PhD, UQ (2017-)	Chemoprevention for Serrated Colorectal Neoplasia	Vicki Whitehall, <b>Barbara Leggett</b>
Anna Weis	PhD, UQ (2014-2017)	New non-invasive methods to detect progression of liver disease and identify patients at highest risk of cirrhosis-related mortality	<b>Richard Skoien</b> , Grant Ramm
Dr Des Patrick	MPhil UQ (2015–2017), Awarded	Effect of pre-admission immunosuppressive therapy and regional transfer versus metropolitan hospital presentation on colectomy rates in severe ulcerative colitis	<b>Dr G Radford-Smith</b> , <b>Dr M Howlett</b>
Dr Zubin Grover	PhD UQ (2011-2017), Awarded	Exclusive enteral nutrition and mucosal healing in newly diagnosed children with Crohn's disease	<b>Dr Peter Lewindon</b> , <b>Dr G Radford-Smith</b>
<b>Dr Anthony Croft</b>	MPhil UQ (2017-2018, commenced)	Risk Assessment for Patients with Gastrointestinal Diseases	<b>Dr G Radford-Smith</b> , <b>Dr Anton Lord</b>
Dr Charmian Chong	MBBS Honours (Year 4)	Predictors of colectomy in an ulcerative colitis inception cohort in Australia	<b>Dr G Radford-Smith</b>

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>Joshua Satchwell</b>	Endoscopy	Endoscopy	QHealth
Vicki Whitehall,	Gastroenterological Society of Australia Senior Research Fellow	Colorectal Cancer	Pathology Queensland (2016-current)
Catherine Bond	Postdoctoral Scientist	Colorectal Cancer	QIMR Berghofer (2014-current)
Futoshi Kawamata	Visiting Fellow	Colorectal Cancer	QIMR Berghofer (2016-current)
Diane McKeone	Research Assistant	Colorectal Cancer	QIMR Berghofer (2013-current)
<b>Dr Tony Croft</b>	Conjoint Fellow	Inflammatory Bowel Diseases	UQ (2017-2018)
Dr Des Patrick	Conjoint Fellow	Inflammatory Bowel Diseases	UQ (2015-2017)
Dr Charmian Chong	MBBS Honours (Year 4)	Inflammatory Bowel Diseases	UQ (2016-2017)
Mr Eddie Shen	Honorary research position	Inflammatory Bowel Diseases	QIMR Berghofer (2016-2018)

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Mark Appleyard</b>	<b>Jason Hwang, Florian Grimpen</b>	Does bowel preparation alter the diagnostic yield in capsule endoscopy?
<b>Benedict Devereaux</b>	Estella Johns	Asia Pacific SpyGlass Cholangioscopy Registry
<b>Patrick Walsh</b>	<b>Joshua Satchwell</b>	Endoscopic Suturing for Gastrojejunal Outlet Dilatation as a Treatment for Weight Regain After Roux-en-Y Gastric Bypass
<b>Richard Skoien</b>	Anna Weis, Grant Ramm, Leesa Wockner	Serum markers in atypical liver lesions (SMALL) study
<b>Richard Skoien</b>	<b>Olivia Cullen, Mary Fenech, Karen Beckman, Deborah McIntyre, Joanne Mina</b>	The Hepatoma and Compensated Cirrhotic Follow-up (HACC-FOL) programme – a new streamlined, safe and cost-effective model of hepatocellular carcinoma surveillance
<b>Richard Skoien</b>	Anna Weis, Leesa Wockner, Grant Ramm	MicroRNAs as potential serum biomarkers of fibrosis progression and hepatocellular carcinoma development in chronic Hepatitis C
<b>Richard Skoien</b>	<b>Barbara Leggett, Olivia Cullen, Karen Beckman,</b> Anna Weis, Emily Duggan, Grant Ramm	Establishment of a clinical and scientific hepatology database to study factors associated with chronic liver disease
<b>Richard Skoien</b>	Anna Weis, Grant Ramm	Developing a novel blood test to improve the early diagnosis of liver cancer
<b>Richard Skoien</b>	<b>Phoebe Thwaites, Alicia Braund, Amy Legg, Karen Beckman, Joanne Mina, Deborah McIntyre, Olivia Cullen, Mary Fenech, Tom Zhou, Andrew Hallam, Tony Rahman, Marnie Wood, Barbara Leggett</b>	Optimising the impact of direct-acting anti-viral treatment in Hepatitis C: Lessons from a universal access, real-world cohort



RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Barbara Leggett</b>	<b>Conjoint Gastroenterology Laboratory (A/Prof Vicki Whitehall, Dr Catherine Bond, Dr Futoshi Kawamata, Dianne McKeone)</b> <b>QIMR Berghofer (A/Prof Nicola Waddell, Medical Genomics, Dr Ann-Marie Patch, Medical Genomics, Dr Katia Nones, Medical Genomics, John Pearson, Genome Informatics, A/Prof Gunter Hartel, Statistics, Dr Jason Lee, Control of Gene Expression, Dr Adrian Wiegman, Tumour Microenvironment, Dr David Frazer, Iron Metabolism) Envoi Specialist Pathologists (Dr Mark Bettington, A/Prof Neal Walker, Dr Ian Brown, A/Prof Christophe Rosty) Dr Matthew Burge, Cancer Care Services Dr Helen Marfan, Genetic Health Queensland Prof Michael Bourke, University of Sydney, Westmead Hospital A/Prof Daniel Worthley, South Australian Health and Medical Research Institute</b>	<u>Colorectal cancer</u> <ul style="list-style-type: none"> <li>• The molecular alterations causing progression of the serrated polyp to colorectal cancer and better identification of high risk polyps</li> <li>• Utilising a mouse model to understand the association of BRAF mutation with DNA methylation in the serrated neoplastic pathway and as a pre-clinical model of chemoprevention strategies</li> <li>• Discovering further genetic changes underlying different subtypes of colorectal cancer which may enable improved chemotherapy options</li> <li>• Understanding clonal heterogeneity in primary and metastatic colorectal cancers</li> </ul>
<b>Graham Radford-Smith</b>	Members of the ANZ IBD Consortium (Grant Montgomery, Jane Andrews, Ian Lawrance, Richard Geary, Susie Connor et al)	Multiple studies in IBD
<b>Graham Radford-Smith</b>	Simon Keely	Hypoxia and the intestinal immune system
<b>Graham Radford-Smith</b>	Lisa Simms, <b>Mark Appleyard, Anton Lord</b>	Optimizing Gastrointestinal (GI) cancer screening in Queensland: the application of clinical, genetic and faecal biomarkers to improve the early detection of GI cancers

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Finlay Mcrae (Melbourne)	<b>Florian Grimpén, Mark Appleyard</b>	AUSFAP study - <b>The effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients</b>
Armin MA, Barnes N, Alvarez J, Li H, Salvado O. (CSIRO)	<b>Florian Grimpén</b>	Automated visibility map of the internal colon surface from colonoscopy video
Gregor Brown (The Alfred Hospital, Melbourne)	<b>Florian Grimpén, Mark Appleyard, Lauren White</b>	Using Adenoma Detection as a Quality indicator in colonoscopy: a multicentre ANZ Audit
<b>Amy Legg</b>	<b>Florian Grimpén, Peter Donovan</b>	PPI usage in RBWH inpatients – Indications and Appropriateness
Alan Cripps	<b>Benedict Devereaux</b>	Mechanisms of mucosal immune regulation in obesity
Stuart Roberts and Geoffrey McCaughan (on behalf of the ALA CRN)	<b>Barbara Leggett, Richard Skoien</b>	Mycophenolate Mofetil in autoimmune hepatitis patients with sub-optimal outcomes to standard treatment: The Tapestry Study
Patricia Valery (QIMRB)	<b>Richard Skoien</b>	Cirrhosis Care (CirCare) study: understanding patient and health system factors that impact on health outcomes for patients with cirrhosis
Alan Moss (Western Health, Melbourne)	<b>Mark Appleyard, Florian Grimpén, Matthew Remedios, Nicholas Tutticci, Kimberley Ryan</b>	Complications of Cold snare versus Hot snare endoscopic mucosal resection of >10mm sessile colonic polyps: a retrospective cohort study
Nam Nguyen (Royal Adelaide Hospital)	<b>Mark Appleyard, Florian Grimpén, Abdunnasser Lafta, Kimberley Ryan</b>	A single center randomized controlled study on the effectiveness of a transparent cap-assisted device in the endoscopic management of high-grade food bolus obstruction in the upper esophagus
Nam Nguyen (Royal Adelaide Hospital)	<b>Mark Appleyard, Florian Grimpén, Abdunnasser Lafta, Kimberley Ryan</b>	The utility of the Glasgow-Blatchford score in predicting clinical outcome and stratifying the need for therapeutic intervention in hospitalised patients with upper gastrointestinal bleeding: a prospective validating study
Greg Anderson (QIMRB)	<b>Graham Radford-Smith (Gastroenterology &amp; Hepatology)</b>	A novel nanoparticulate iron supplement and its effect on the gastrointestinal tract.
John Croese (QH)	<b>Graham Radford-Smith (Gastroenterology &amp; Hepatology)</b>	Hookworm therapy for Coeliac Disease: A randomised, double blind, placebo-controlled clinical trial

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Anna Weis	Discovery and Research Innovation Award	RBWH Healthcare Symposium 2017
<b>Dr L White</b>	RBWH postgraduate scholarship	
Ms A Marsh	RBWH postgraduate scholarship	

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Finlay Mcrae, <b>Mark Appleyard, Florian Grimpen</b> et al	Department of Gastroenterology	<b>The effects of butyrylated high amylose maize starch on polyposis in familial adenomatous polyposis patients</b>	Cancer Council	\$70,000	\$200,000 (2014-17)
Whitehall V, <b>Leggett B</b> , Pollock P, Bettington M, Lee J	Conjoint Gastroenterology Laboratory	Sessile serrated adenoma prevention in a preclinical study	Cancer Council Queensland	\$100,000	\$200,000 (2016, 2017)
Anna Weis, Grant Ramm, <b>Richard Skoien</b>	Gastroenterology and Hepatology	Developing a novel blood test to improve the early diagnosis of liver cancer	Cromwell Property Trust Foundation (via the Australian Liver Foundation)	\$50,000	\$150,000 (2015-2018)
Anna Weis, Grant Ramm, <b>Richard Skoien</b>	Gastroenterology and Hepatology	Assessing the potential of circulating microRNAs as biomarkers of disease severity in cirrhosis	RBWH and RBWH Foundation (Research Advisory Committee)	\$40,000	\$40,000 (2017)
<b>Radford-Smith GL</b>	IBD group, RBWH	Implementation of a point of care assay for Infliximab and faecal calprotectin to optimize IBD patient care	GESA	\$15,000.00	\$15,000.00
<b>David Clark, Matthew Burge, Anton Lord, Lisa Simms</b>	Colorectal Research Unit/ IBD Research Group	Precision medicine for colorectal cancer: defining a pre-diagnostic signature	RBWH Foundation	\$20 000	1 year
<b>Mark Appleyard, Graham Radford-Smith, Anton Lord</b>	IBD Research Group / Gastroenterology, RBWH	Development of risk assessment tools to improve clinical triage accuracy investigations	RBWH Foundation	\$20 000	1 year

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Bettington M, Walker N, Rahman T, Vandeleur A, Whitehall V, <b>Leggett B</b> , Croese J. High prevalence of sessile serrated adenomas in contemporary outpatient colonoscopy practice. Int Med J 2017; 47:318-323
Journal article	Bettington M, Walker N, Rosty C, Brown I, Clouston A, McKeone D, Pearson S-A, <b>Leggett B</b> , Whitehall V. Clinicopathological and molecular features of sessile serrated adenomas with dysplasia or carcinoma. Gut 2017; 66:97-106

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Lui C, McKeone DM, Walker NI, Bettington ML, Leggett BA, Whitehall VLJ. GNAS mutations are present in colorectal traditional serrated adenomas, serrated tubulovillous adenomas and serrated adenocarcinomas with adverse prognostic features. <i>Histopathology</i> 2017; 70:1079-1088
Journal article	Scarpa A, Chang DK, Nones K, Corbo V, Patch A-M, Bailey P, Lawlor RT, Johns AL, Miller DK, Mafficini A, Rusev B, Scardoni M, Antonello D, Barbi S, Sikora K, Cingarlini S, Vicentini C, McKav S, Quinn MCJ, Bruxner TJC, Christ AN, Harliwong I, Idrisoglu S, McLean S, Nourse C, Nourbakhsh E, Wilson PJ, Anderson MJ, Fink JL, Newell F, Waddell N, Holmes O, Kazakoff SH, Leonard C, Wood S, Xu Q, Nagaraj SH, Amato E, Dalai I, Bersani S, Cataldo I, Dei Tos AP, Capelli P, Davi MV, Landoni L, Malpaga A, Miotto M, Whitehall VLJ, <b>Leggett BA</b> , Harris JL, Harris J, Jones MD, Humphris J, Chantrill LA, Chin V, Nagrial AM, Pajic M, Scarlett CJ, Pinho A, Rooman I, Toon C, Wu J, Pinese M, Cowley M, Barbour A, Mawson A, Humphrey ES, Colvin EK, Chou A, Lovell JA, Jamieson NB, Duthie F, Gingras M-C, Fisher WE, Dagg RA, Lau LMS, Lee M, Pickett HA, Reddel RR, Samra JS, Kench JG, Merrett ND, Epari K, Nguyen NQ, Zeps N, Falconi M, Simbolo M, Butturini G, Van Buren G, Partelli S, Fassan M, Khanna KK, Gill AJ, Wheeler DA, Gibbs RA, Musgrove EA, Bassi C, Tortora G, Pederzoli P, Pearson JV, Waddell N, Biankin AV, Grimmond SM. Whole-genome landscape of pancreatic neuroendocrine tumours. <i>Nature</i> 2017; 543:65-71
Journal article	Fennell L, Clendenning M, McKeone D, Jamieson S, Balachandra S, Borowsky J, Liu C, Kawamata F, Bond C, Rosty C, Burge M, Buchanan D, <b>Leggett B</b> , Whitehall V. RNF43 is less frequently mutated in Lynch Syndrome compared with sporadic microsatellite unstable colorectal cancers. <i>Familial Cancer</i> 2017; published online 01 June 2017
Journal article	Lui C, Walker NI, <b>Leggett BA</b> , Whitehall VLJ, Bettington ML, Rosty C. Sessile serrated adenomas with dysplasia: morphological patterns and correlations with MLH1 immunohistochemistry. <i>Modern Pathology</i> 2017; published on line 28 July 2017
Journal article	Borowsky J, Dumenil T, Bettington M, Pearson S-A, Bond C, Fennell L, Lui C, McKeone D, Rosty C, Brown I, Walker N, <b>Leggett B</b> , Whitehall V. The role of APC in WNT pathway activation in serrated neoplasia. <i>Modern Pathology</i> 2017; published on line 17 November 2017
Journal article	Liao WC, Angsuwatcharakon P, Isayama H, Dhir V, <b>Devereaux B</b> et al. International consensus recommendations for difficult biliary access. <i>Gastrointest Endosc</i> 2017;85:295-304
Journal article	Cox AJ, Zhang P, Bowden DW, <b>Devereaux B</b> , Davoren PM, Cripps AW, West NP. Increased intestinal permeability as a risk factor for type 2 diabetes. <i>Diabetes and Metabolism</i> 2017;43:163-166
Journal article	A standardized imaging protocol for the endoscopic prediction of dysplasia within sessile serrated polyps <i>Gastrointest Endosc</i> Epub 2017 Jul 13. Tate DJ1, <b>Jayanna M2</b> , Awadie H2, Desomer L2, Lee R2, Heitman SJ2, Sidhu M2, Goodrick K2, Burgess NG1, Mahajan H3, McLeod D3, Bourke MJ1.
Journal article	Valery PC, Clark PJ, McPhail SM, Rahman T, Hayward K, Martin J, Horsfall L, Volk ML, <b>Skoien R</b> , Powell E. Exploratory study into the unmet supportive needs of people diagnosed with cirrhosis in Queensland, Australia. <i>Intern Med J.</i> 2017 Apr;47(4):429-435.
Journal article	Roberts SK, Lim R, Strasser S, Nicoll A, Gazzola A, Mitchell J, Siow W, Khoo T, Hamarneh Z, Weltman M, Gow P, Janko N, Tse E, Mishra G, Cheng EH, Levy M, Cheng W, Sood S, <b>Skoien R</b> , Mitchell J, Zekry A, George J, MacQuillan G, Wigg A, Stuart K, Sievert W, McCaughan G; ALA Clinical Research Network. Efficacy and Safety of Mycophenolate Mofetil in Patients With Autoimmune Hepatitis and Suboptimal Outcomes After Standard Therapy. <i>Clin Gastroenterol Hepatol</i> 2017 Oct 16. doi: 10.1016/j.cgh.2017.09.063.
Journal article	1. Choy MC, Seah D, Gorelik A, <b>Radford-Smith GL</b> , et al. Predicting Response after Infliximab Salvage in Acute Severe Ulcerative Colitis. <i>J Gastroenterol Hepatol.</i> 2017 Dec 21. doi: 10.1111/jgh.14072. [Epub ahead of print]
Journal article	2. Mitrev N, Vande Casteele N, <b>Radford-Smith GL</b> et al. Review article: consensus statements on therapeutic drug monitoring of anti-tumour necrosis factor therapy in inflammatory bowel diseases. <i>Aliment Pharmacol Ther.</i> 2017 Dec;46(11-12):1037-1053
Journal article	3. Chen GB, Lee SH, Montgomery GW, <b>Radford-Smith GL</b> , et al. Performance of risk prediction for inflammatory bowel disease based on genotyping platform and genomic risk score method. <i>BMC Med Genet.</i> 2017 Aug
Journal article	4. Lim MH, <b>Radford-Smith GL</b> . Editorial: faecal microbiota transplantation for ulcerative colitis-not quite there yet? <i>Aliment Pharmacol Ther.</i> 2017 Sep;46(6):630-631.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	5. Irwin J, Ferguson E, Simms LA, <b>Radford-Smith GL</b> , et al. A rolling phenotype in Crohn's disease. PLoS One. 2017 Apr 6;12(4):e0174954.
Journal article	6. Lawrance IC, Baird A, Lightower D, <b>Radford-Smith GL</b> et al. Efficacy of Rectal Tacrolimus for Induction Therapy in Patients With Resistant Ulcerative Proctitis. Clin Gastroenterol Hepatol. 2017 Aug;15(8):1248-1255.
Journal article	7. <b>Radford-Smith GL</b> , Hartnell F, Doecke JD. Editorial: relative efficacy of infliximab and adalimumab in Crohn's disease in an Australian and New Zealand cohort - authors' reply. Aliment Pharmacol Ther. 2017 Mar;45(6):856-857
Journal article	8. Marks E, Naudin C, Nolan G, <b>Radford-Smith GL</b> , et al. Regulation of IL-12p40 by HIF controls Th1/Th17 responses to prevent mucosal inflammation. Mucosal Immunol. 2017 Sep;10(5):1224-1236.
Journal article	9. Doecke JD, Hartnell F, Bampton P, <b>Radford-Smith GL</b> , et al. Infliximab vs. adalimumab in Crohn's disease: results from 327 patients in an Australian and New Zealand observational cohort study. Aliment Pharmacol Ther. 2017 Feb;45(4):542-552.
Journal article	10. Hamilton AL, Kamm MA, De Cruz P, <b>Radford-Smith GL</b> , et al. Serologic antibodies in relation to outcome in postoperative Crohn's disease. J Gastroenterol Hepatol. 2017 Jun;32(6):1195-1203.
Journal article	11. Lord AR, Simms LA, Hanigan K, <b>Radford-Smith GL</b> , et al. Protective effects of Helicobacter pylori for IBD are related to the cagA-positive strain. Gut. 2018 Feb;67(2):393-394.
Journal article	12. Roberts G*, Lord A*, Frankland A, et al. Functional Dysconnection of the Inferior Frontal Gyrus in Young People With Bipolar Disorder or at Genetic High Risk. Biol. Psychiatry. 2017 April;81(8), 718-727.
Journal article	13. Lord A, Li M, Demenescu L, et al. Richness in functional connectivity depends on the neuronal integrity of its structural backbone. Front. Neurosci. 2017 April; 11, 184
Journal article	14. Liebe T, Li S, Lord A, et al. Ractors influencing cardiovascular response to sub-anesthetic ketamine – a randomized, placebo controlled trial. Int. J. Neuropsychopharmacol. 2017 June; 20(11), 909-918.
Journal article	15. Götting F, Borchardt V, Demenescu L, Lord A, et al. Higher interference susceptibility in reaction time task is accompanied by weakened functional dissociation between salience and default mode network. Neurosci. Lett. 2017 March; 649, 34-40.
Published abstracts	1 An Y, Chen C, <b>White L</b> , et al. Accelerated dosing of infliximab induction and endoscopic mucosal healing in patients with acute severe ulcerative colitis J Gastroenterol Hepatol. 2017 Aug; 32, 121-121.
	2. <b>White L</b> , Chen C, An Y, et al. Effect of serum human albumin infusion on serum albumin levels in acute severe ulcerative colitis. J Gastroenterol Hepatol. 2017 Aug; 32, 152-153
	3. Marsh A, Kinneally J, Lord A, et al. Exploring food avoidance behaviors in outpatients with inflammatory bowel disease: Who, what, and why? J Gastroenterol Hepatol. 2017 Aug; 32, 180-181
	4. Lord A, Simms, L, Brown A, et al. Development and evaluation of a risk assessment tool to improve clinical triage accuracy for colonoscopic investigations. ? J Gastroenterol Hepatol. 2017 Aug; 32, 135-135

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	Outcomes of percutaneous endoscopic gastrostomy: 6 years of experience at a tertiary hospital. <b>Satchwell J, Grimpen F</b> . Australian Gastroenterology Week, Gold Coast

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	Outcomes of endoscopy for food bolus impaction: 6 years of experience at a tertiary hospital. <b>Satchwell J, Grimpen F</b> . Australian Gastroenterology Week, Gold Coast
Posters	Camera motion estimation with Six Degree of Freedom from Colonoscopy Video using Optical Flow and Deep Neural Network. Ali A, Barnes N, Alvarez J, Li H, <b>Grimpen F</b> , Salvado O. International Symposium on Biomedical Imaging, Melbourne
Invited oral	Advances in EUS-FNA Liquid Biopsy Techniques. EUS-TAP Masterclass, Asia-Pacific Digestive Week (APDW) 2017. Hong Kong (Invited speaker: <b>B Devereaux</b> )
Invited oral	Pancreatic cancer: When to stent-Best practice management. Australian Gastroenterology Week (AGW) 2017. Gold Coast (Invited speaker: <b>B Devereaux</b> )
Invited oral	Gastroenterological Society of Australia Infection control in endoscopy consensus statement on carbapenemase-producing Enterobacteriaceae (CPE). Australian Gastroenterology Week (AGW) 2017. Gold Coast (Invited speaker: <b>B Devereaux</b> )
Invited oral	Endoscopic ultrasound-Taskforce Asia-Pacific (EUS-TAP) Masterclass, Hong Kong (September) (Invited speaker: <b>B Devereaux</b> )
Invited oral	National Endoscopic Training Initiative (NETI) Colonoscopy Workshop. Gold Coast University Hospital, Gold Coast (August) (Invited speaker: <b>B Devereaux</b> )
Invited oral	Image Enhanced Endoscopy Master Class. Gold Coast (April) (Invited speaker: <b>B Devereaux</b> )
Invited oral	Gastrointestinal Bleeding: More than the Routine Cases. <b>M Appleyard</b> (invited speaker), Australian Gastroenterology Week, Gold Coast 2017
Invited oral	All Guts no Glory. Annual Conference, Australian and New Zealand College of Anaesthetists. <b>M Remedios</b> (invited speaker) Brisbane May 2017
Invited oral	Endoscopic revision of Roux-en-Y gastric bypass surgery. OSSANZ Postgraduate Course. <b>P Walsh</b> (invited speaker)
Invited oral	Endoscopic Innovations in bariatrics. Inaugural Australian Overstitch Leaders Forum, Sydney. <b>P Walsh</b> (invited speaker)
Invited oral	Endoscopic revision of Roux-en-Y gastric bypass surgery. Inaugural Australian Overstitch Leaders Forum, Sydney. <b>P Walsh</b> (invited speaker)
Oral	Initial Australian Experience with Endoscopic Suturing for Gastrojejunal Outlet Dilatation as a Treatment for Weight Regain after Roux-en-Y Gastric Bypass – An Australian Case Series Joint Scientific Meeting of The Australian and New Zealand Obesity Society and The Obesity Surgery Society of Australia – October 2017. <b>J Satchwell</b>
Poster	<b>Thwaites P, Braund A, Legg A, Beckman K, Mina J, McIntyre D, Cullen O, Fenech M, Zhou T, Hallam A, Rahman T, Wood M, Leggett B, Skoien R</b> . Optimising the impact of direct-acting antiviral treatment in Hepatitis C: Lessons from a universal access, real world cohort. American Association for Study of Liver Disease Meeting 2017, Washington
Invited speaker	<b>Richard Skoien</b> . End-stage liver disease: The hepatologist's perspective. Australia and New Zealand Society of Palliative Medicine Update 2017. Melbourne, Australia.
Invited speaker	<b>Richard Skoien</b> . Hepatocellular carcinoma: The hepatology perspective. Interventional Radiology Society of Australia Meeting 2017. Port Douglas, Australia.
Invited speaker	<b>Richard Skoien</b> Portal hypertension: The tipping point in cirrhosis. Interventional Radiology Society of Australia Meeting 2017. Port Douglas, Australia.
Poster	<b>Phoebe Thwaites, Alicia Braund, Amy Legg, Karen Beckman, Joanne Mina, Deborah McIntyre, Olivia Cullen, Mary Fenech, Mark Redden, Anzel Jansenvan Rensburg, Xinyi (Tom) Zhou, Andrew Hallam, Tony Rahman, Marnie Wood, Barbara Leggett, Richard Skoien</b> . Optimising the impact of direct-acting anti-viral treatment in Hepatitis C: Lessons from a universal access, real-world cohort. The Liver Meeting (AASLD) 2017. Washington DC, USA.
Poster	A Weis, D Smith, L Wockner, I Hoffman, G Ramm, <b>R Skoien</b> . Serum microRNAs as biomarkers for cirrhosis and hepatocellular carcinoma in Hepatitis C. International Liver Congress (EASL) 2017. Amsterdam, Netherlands.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	V Ratziu, VWS Wong, N Lanthier, J Boursier, W Alazawi, J Kluwe, J Genesca, P Andreone, L Serfaty, <b>R Skoien</b> , BL Wiens, P Vig, E Lefebvre, S Seyedkazemi, Z Kayali, F Poordad, A Sanyal, F Tacke, Z Goodman. Hepatic fibrosis is associated with histological activity in non-alcoholic steatohepatitis: an analysis from a large database of screening biopsies in the CENTAUR trial. International Liver Congress (EASL) 2017. Amsterdam, Netherlands.
Poster	J George, P Desmond, J Sasadeusz, D Shaw, <b>R Skoien</b> , K Stuart, BY Hu, A Joy, TP Matias, M Charafeddine, DE Cohen, FM Keane, M Weltman. Efficacy, safety, and long-term outcomes in hepatitis C virus genotype 1-infected patients receiving ombitasvir/paritaprevir/ritonavir and dasabuvir ± ribavirin: TOPAZ-I interim data from Australia. Australian Gastroenterology Week (AGW) 2017. Gold Coast, Australia.
Poster	<b>A Kaul, M Fenech, V Fok, O Cullen, R Skoien</b> . Can cirrhosis-specific clinical criteria identify a subset of patients with advanced cirrhosis who might benefit from a more supportive model of care? Australian Gastroenterology Week (AGW) 2017. Gold Coast, Australia.
Poster	J George, D Dieterich, M Weltman, <b>R Skoien</b> , P Desmond, J Sasadeusz, KA Stuart, P Dorr, E Dumas, M Charafeddine, L Liu, D Cohen, P Marti, HS Te, M Sulkowski, D Shaw, F Poordad. Long-Term Evaluation of Liver Stiffness and Blood Markers in Hepatitis C Virus Genotype 1-Infected Patients Receiving Ombitasvir/Paritaprevir/Ritonavir + Dasabuvir ± Ribavirin: Interim Results from TOPAZ-I and TOPAZ-II. Annual Conference of the Asian Pacific Association for The Study of the Liver (APASL) 2017. Shanghai, China.
Oral, invited	<b>GL Radford-Smith</b> . Risk assessment tools for the symptomatic population. WEO Colorectal Cancer screening committee meeting. DDW 2017
Oral, selected	A Lord, LA Simms, A Brown, et al.
Oral, selected	Y An, CY Chen, <b>L White, M Howlett</b> , A Lord, <b>GL Radford-Smith</b> . Accelerated dosing of infliximab induction and endoscopic mucosal healing in patients with Acute Severe Ulcerative Colitis. AGW 2017
Oral, selected	<b>L White</b> , Y An, A Lord, <b>GL Radford-Smith</b> . Effect of Serum Human Albumin Infusion on Serum Albumin Levels in Acute Severe Ulcerative Colitis. AGW 2017
Poster, selected	S Seang, R Kanazaki, K Krishnaprasad, K Hanigan, P Bampton, R Prosser, J Andrews, R Grafton, G Mahy, S Bell, W Ng, M Sparrow, S Ghaly, <b>G Radford-Smith</b> , S Connor. Clinical Predictors of Severe Ulcerative Colitis Requiring Colectomy in Australia. AGW 2017
Oral, selected	K Krishnaprasad, A Walsh, J Begun, S Bell, S Connor, <b>G Radford-Smith</b> , J M Andrews. Crohn's Colitis Care (CCCare) – a bespoke cloud-based Clinical Management System for Inflammatory Bowel Disease – development & beta testing. AGW 2017

## OTHER COMMUNICATIONS AND OUTPUTS:

**Barbara Leggett** was Section Lead author of High Risk Familial Syndromes in Cancer Council Australia Colorectal Cancer Guidelines Working Party. Clinical practice guidelines for the prevention, early detection and management of colorectal cancer. Sydney: Cancer Council Australia.

Version URL: <https://wiki.cancer.org.au/australiawiki/index.php?oldid=173168>, cited 2017 Dec 6].

Available from: [https://wiki.cancer.org.au/australia/Guidelines:Colorectal\\_cancer](https://wiki.cancer.org.au/australia/Guidelines:Colorectal_cancer)

# INFECTIOUS DISEASES UNIT



**PROF DAVID PATERSON**



**PROF JAMES MCCARTHY**

The Infectious Diseases Unit has had another outstanding year of contributions to clinical and translational research in the fields of: infectious diseases; microbiology; infection control; public health and; healthcare delivery.

Professor James McCarthy's internationally recognised success in new drug development for malaria was recognised with three prestigious research awards: The Sornchai Looareesuwan Medal; Honorary International Fellows of the American Society for Tropical Medicine and Hygiene and; the Ralph Doherty QIMR Berghofer Prize for Outstanding Achievement and Leadership in Medical Research. Professor McCarthy's pioneering laboratory successfully performed the manufacture, release and in vivo testing of two Plasmodium falciparum cell banks, one being the first GMO blood stage prototype parasite vaccine, and the second carrying the K13 artemisinin-resistance mutation. The first bank received approval by the FDA in the form of an IND. His group demonstrated in a clinical trial the successful transmission of malaria from experimentally-infected human volunteers to mosquitos and performed the first experimental infection study of Plasmodium malariae.

Professor Paterson was appointed the Director of the University of Queensland Centre for Clinical Research (UQCCR). With his leadership, the world's largest randomised trial on treatment options for multi-drug resistant Gram-negative bacterial infections, The MERINO trial, was completed at the RBWH Infectious Diseases Department in 2017. Originating at RBWH the study subsequently enrolled 391 patients across 9 countries. The study, which compared mortality when treatment was with meropenem or piperacillin/tazobactam, was funded by the Australasian Society for Antimicrobials and the International Society for Chemotherapy.

A/Prof Anthony Allworth, A/Prof Marion Woods and Drs Redmond, McCarthy and Hajkowicz made significant contributions to the infectious diseases literature in journals including the New England Journal of Medicine, and delivered lectures at several national and international conferences.

Edited by Professors Paterson and McCarthy, The RBWH infectious diseases team contributed 20 chapters to Kucers' The Use Of Antibiotics 7th Ed Boca Raton: CRC Press, 2017. Kucers is the world's authoritative text on antimicrobial therapy.



## 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)
Paul Griffin	PhD UQ (2013-)	Human challenge studies in malaria	James McCarthy, David Looke
Paul Chapman	MPhil UQ (2015-)	An attenuated hookworm vaccine	James McCarthy, Alex Loukas
<b>John Woodford</b>	MPhil UQ (2016-)	Microcirculatory disturbance in malaria	James McCarthy, Nick Anstey
Anand Odedra	PhD University of Liverpool (2017-)	Transmission of Malaria	James McCarthy, David Lalloo

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>James McCarthy</b>	NHMRC Practitioner Fellow	QIMR Berghofer	QIMR Berghofer (2002-current)
<b>Anand Odedra</b>	Medicines for Malaria	QIMR Berghofer	University of Liverpool (2017-)
<b>Bridget Barber</b>	NHMRC ECF	QIMR Berghofer	Menzies School of Health & Research
<b>Katharine Collins</b>	Medicines for Malaria	QIMR Berghofer	QIMR Berghofer
<b>Robert Commons</b>	NHMRC Clinical Postgraduate Research Scholarship	Menzies School of Health Research	2016-2018
<b>Robert Commons</b>	MSHR Enhanced Living Scholarship	Menzies School of Health Research	2016-2018
<b>Adam Stewart</b>	Queensland Health Junior Doctor research Fellowship	Queensland Health	2017-2019

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>A. Stewart, A. Legg, M. Halford, K. McCarthy</b>		Temperature variation in outpatient parenteral antimicrobial therapy (OPAT) in southeast Queensland.
<b>James McCarthy</b>	Medicines for Malaria/ multiple Pharma/Bill and Melinda Gates Foundation	Human Challenge Studies in malaria
<b>James McCarthy</b>	<b>Robert Sauerwein (Netherlands)</b>	Transmission studies in malaria

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>James McCarthy</b>	Michael Good, Don McManus, Istvan Toth, Nicholas Anstey, Denise Doolan, Christian Engwerda, Alexander Loukas, Richard Price	Tropical diseases: Translating discoveries into better health
<b>James McCarthy</b>	Gonzalo Domingo (PATH)	Biomarkers for Malaria Elimination
<b>James McCarthy</b>	Merck Wellcome Trust	MK5717 – A novel antimalarial agent
<b>James McCarthy, John Woodford</b>	Paul Thomas	In vivo images in malaria

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Jime Lemoire (QPP), Joe Debattista (MNPHU), Charles Gilks (UQ)	<b>Andrew Redmond, Julian Langton-Lockton, Diane Rowlings</b>	<b>Genexpert Urban Pilot</b>
Lachlan Coin, University of Queensland Institute for Molecular Biosciences; Seweryn Bialasiewicz, Queensland Paediatric Infectious Diseases Research Group	<b>Dr Marion Woods, Dr Krispin Hajkowicz</b>	<b>AQIP Rapid Molecular Diagnosis of Bloodstream Infection – Supported with a \$350,000 grant from the University of Queensland.</b>

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
<b>James McCarthy</b>	Sornchai Looareesuwan Medal Winner, 2016	The Joint International Tropical Medicine Meeting
<b>James McCarthy</b>	Honorary International Fellows of ASTMH	American Society of Tropical Medicine & Hygiene (ASTMH) 2017 Annual Meeting, Baltimore
<b>James McCarthy</b>	Ralph Doherty QIMR Berghofer Prize for Outstanding Achievement and Leadership in Medical Research	Annual QIMR Berghofer Awards

RECIPIENT	AWARD	EVENT
<b>Robert Commons</b>	Royal Australasian College of Physicians NHMRC Award for Excellence \$30 000	
<b>Robert Commons</b>	International Travel Award	International Conference on Plasmodium vivax Research, Manaus, Brazil
<b>David Paterson</b>	Achievement Award as Top-Ranked Practitioner	NHMRC

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Paterson D, Harris P, Nimmo G, Allworth A, Hajkovicz K, Jennison, Lipman J, Clark J, Playford G, Roberts J, Schembri M, Beatson S, Whiley D, Walker M, Schlebusch S.	Infectious Diseases, ICU, UQCCR	Whole genome sequencing to track, treat and prevent nosocomial infections. 2017-2018	Queensland Genomic Health Alliance.	\$300,000	\$600,000 (2017-2018)
Kate McCarthy	Infectious Diseases, Hospital-in-the-Home, Pharmacy	Utilisation of ambulatory pumps in the inpatient setting to administer long term antiBiotic therapy: A patient risk reduction and rehabilitation Strategy. (The MOBILISE Study).	RBWH Foundation	\$40,000	\$40 000 (2017)
<b>Paterson D, Roberts J, Lipman J, Harris P, Whiley D, Beatson S, Schembri M.</b>	Infectious Diseases, ICU	Illumina MiniSeq instrument (plus reagents / Nextera XT DNA Library preparing kits) and computing upgrade 2017	Faculty of Medicine's Research Equipment and Infrastructure Investment Scheme	\$84,950	\$84,950 (2017)

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>James McCarthy</b>	Infectious Diseases	A Phase I, First-in-Human, Randomized, Double Blind, Placebo-Controlled Trial of Single and Multiple Ascending Doses of M5717 to Assess the Safety, Tolerability and Pharmacokinetic Profile of Oral Doses, and to Assess the Antimalarial Activity of M5717 Against Plasmodium falciparum in Healthy Male and Female Adult Subjects.	Wellcome Trust	\$1,935,905.	
<b>James McCarthy</b>	Infectious Diseases	A randomized, double-blinded, placebo-controlled study in healthy adults to determine the prophylactic effect of tafenoquine after challenge with Plasmodium falciparum blood stage parasites	CNS (60 Degrees Pharmaceuticals)	\$351,518.00	1
<b>James McCarthy</b>	Infectious Diseases	Tropical diseases: Translating discoveries into better health	NHMRC	14,927,045.00	5
James McCarthy	Clinical Tropical Medicine	Centre for Research Excellence in Malaria Elimination	NHMRC	2,470,291.30	5
James McCarthy	Clinical Tropical Medicine	T-follicular helper cell subsets that induce protective anti-Plasmodium falciparum antibodies	NHMRC	456,261.50	3

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	<b>Stewart A, Armstrong M, Graves S, Hajkowicz K.</b> Rickettsia australis and Queensland Tick Typhus: A Rickettsial Spotted Fever Group Infection in Australia. Am J Trop Med Hyg. 2017 Jul;97(1):24-29. doi: 10.4269/ajtmh.16-0915. Review. PMID: 28719297
Journal Article	Coulter S, <b>Roberts JA, Hajkowicz K,</b> Halton K. The Use of Bloodstream Infection Mortality to Measure the Impact of Antimicrobial Stewardship Interventions: Assessing the Evidence. Infect Dis Rep. 2017 Mar 30;9(1):6849. doi: 10.4081/idr.2017.6849. eCollection 2017 Mar 30. Review. PMID: 28458799.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Chapman B, Slavin M, Marriott D, Halliday C, Kidd S, Arthur I, Bak N, Heath CH, Kennedy K, Morrissey CO, Sorrell TC, van Hal S, Keighley C, Goeman E, Underwood N, <b>Hajkovicz K</b> , Hofmeyr A, Leung M, Macesic N, Botes J, Blyth C, Cooley L, George CR, Kalukottege P, Kesson A, McMullan B, Baird R, Robson J, Korman TM, Pendle S, Weeks K, Liu E, Cheong E, Chen S; Australian and New Zealand Mycoses Interest Group. Changing epidemiology of candidaemia in Australia. <i>J Antimicrob Chemother.</i> 2017 Apr 1;72(4):1103-1108. doi: 10.1093/jac/dkw422. Erratum in: <i>J Antimicrob Chemother.</i> 2017 Apr 1;72 (4):1270. PMID: 28364558
Journal Article	Chan RJ, Northfield S, Larsen E, Mihala G, Ullman A, Hancock P, Marsh N, Gavin N, Wyld D, <b>Allworth A</b> , Russell E, Choudhury MA, Flynn J, Rickard CM. Central venous Access device SeCurement And Dressing Effectiveness for peripherally inserted central catheters in adult acute hospital patients (CASCADE): a pilot randomised controlled trial. <i>Trials.</i> 2017 Oct 4;18(1):458. doi: 10.1186/s13063-017-2207-x.PMID:28978332
Journal Article (Collaborator)	Bezlotoxumab for Prevention of Recurrent Clostridium difficile Infection. Wilcox MH, Gerding DN, Poxton IR, Kelly C, Nathan R, Birch T, Cornely OA, Rahav G, Bouza E, Lee C, Jenkin G, Jensen W, Kim YS, Yoshida J, Gabryelski L, Pedley A, Eves K, Tipping R, Guris D, Kartsonis N, Dorr MB; MODIFY I and MODIFY II Investigators.N <i>Engl J Med.</i> 2017 Jan 26;376(4):305-317. doi: 10.1056/NEJMoa1602615. PMID: 28121498 ( <b>Allworth A</b> , collaborator).
Journal article	Combination antibiotic therapy for Pseudomonas aeruginosa bacteremia Journal article in febrile neutropenic patients? The question still remains. <b>McCarthy KL</b> , Cherian JD, <b>Avent ML</b> , <b>Paterson DL</b> . <i>Infect Dis (Lond).</i> 2017 Dec 5:1-4.
Journal article	Pseudomonas aeruginosa blood stream infection isolates from patients with recurrent blood stream infection: Is it the same genotype? <b>McCarthy KL</b> , Kidd TJ, <b>Paterson DL</b> . <i>Epidemiol Infect.</i> 2017 Oct;145(14):3040-3046
Journal article	Draft Genome Sequences of Two Pseudomonas aeruginosa Bloodstream Infection Isolates Associated with Rapid Patient Death. <b>McCarthy KL</b> , Jennison AV, Wailan AM, <b>Paterson DL</b> . <i>Genome Announc.</i> 2017 Aug 17;5(33).
Journal article	Draft Genome Sequence of an IMP-7-Producing Pseudomonas aeruginosa Bloodstream Infection Isolate from Australia. <b>McCarthy KL</b> , Jennison A, Wailan AM, <b>Paterson DL</b> . <i>Genome Announc.</i> 2017 Jul 6;5(27).
Journal article	Increased risk of death with recurrent Pseudomonas aeruginosa bacteremia. <b>McCarthy KL</b> , <b>Paterson DL</b> . <i>Diagn Microbiol Infect Dis.</i> 2017 Jun;88(2):152-157
Journal article	Molecular epidemiology of Pseudomonas aeruginosa bloodstream infection isolates in a non-outbreak setting. <b>McCarthy KL</b> , Kidd TJ, <b>Paterson DL</b> . <i>J Med Microbiol.</i> 2017 Mar;66(2):154-159
Journal article	Long-term mortality following Pseudomonas aeruginosa bloodstream infection. <b>McCarthy KL</b> , <b>Paterson DL</b> . <i>J Hosp Infect.</i> 2017 Mar;95(3):292-299
Journal article	Community-acquired Pseudomonas aeruginosa bloodstream infection: a classification that should not falsely reassure the clinician. <b>McCarthy KL</b> , <b>Paterson DL</b> . <i>Eur J Clin Microbiol Infect Dis.</i> 2017 Apr;36(4):703-711
Journal article	Wockner LF, Hoffmann I, O'Rourke P, <b>McCarthy JS</b> , Marquart L. Comparison of statistical models to estimate parasite growth rate in the induced blood stage malaria model. <i>Malar J.</i> 2017 Aug 25;16(1):352
Journal article	Das S, Jang IK, Barney B, Peck R, Rek JC, Arinaitwe E, Adrama H, Murphy M, Imwong M, Ling CL, Proux S, Haohankhunnatham W, Rist M, Seilie AM, Hanron A, Daza G, Chang M, Nakamura T, Kalnoky M, Labarre P, Murphy SC, <b>McCarthy JS</b> , Nosten F, Greenhouse B, Allauzen S, Domingo GJ. Performance of a High-Sensitivity Rapid Diagnostic Test for Plasmodium falciparum Malaria in Asymptomatic Individuals from Uganda and Myanmar and Naive Human Challenge Infections. <i>Am J Trop Med Hyg.</i> 2017 Aug 7
Journal article	Burel JG, Apte SH, Groves PL, Boyle MJ, Langer C, Beeson JG, <b>McCarthy JS</b> , Doolan DL. Dichotomous miR expression and immune responses following primary blood-stage malaria. <i>JCI Insight.</i> 2017 Aug 3;2(15). pii: 93434

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Papaiakovou M, Pilotte N, Grant JR, Traub RJ, Llewellyn S, <b>McCarthy JS</b> , Krolewiecki AJ, Cimino R, Mejia R, Williams SA. A novel, species-specific, real-time PCR assay for the detection of the emerging zoonotic parasite <i>Ancylostoma ceylanicum</i> in human stool. <i>PLoS Negl Trop Dis</i> . 2017 Jul 10;11(7):e0005734
Journal article	Payne RO, Silk SE, Elias SC, Milne KH, Rawlinson TA, Llewellyn D, Shakri AR, Jin J, Labbé GM, Edwards NJ, Poulton ID, Roberts R, Farid R, Jørgensen T, Alanine DG, de Cassan SC, Higgins MK, Otto TD, <b>McCarthy JS</b> , de Jongh WA, Nicosia A, Moyle S, Hill AV, Berrie E, Chitnis CE, Lawrie AM, Draper SJ. Human vaccination against <i>Plasmodium vivax</i> Duffy-binding protein induces strain-transcending antibodies. <i>JCI Insight</i> . 2017 Jun 15;2(12). pii: 93683
Journal article	Mounsey KE, Walton SF, Innes A, Cash-Deans S, <b>McCarthy JS</b> . In Vitro Efficacy of Moxidectin versus Ivermectin against <i>Sarcoptes scabiei</i> . <i>Antimicrob Agents Chemother</i> . 2017; 61(8)
Journal article	<b>McCarthy JS</b> , Lotharius J, Ruckle T, Chalon S, Phillips MA, Elliott S, Sekuloski S, Griffin P, Ng CL, Fidock DA, Marquart L, Williams NS, Gobeau N, Bebrevska L, Rosario M, Marsh K, Möhrle JJ. Safety, tolerability, pharmacokinetics, and activity of the novel long-acting antimalarial DSM265: a two-part first-in-human phase 1a/1b randomised study. <i>Lancet Infect Dis</i> 2017 Jun;17(6):626-635
Journal article	Farid R, Dixon MW, Tilley L, <b>McCarthy J</b> . Initiation of gametocytogenesis at very low parasite density in <i>Plasmodium falciparum</i> infection. <i>J Infect Dis</i> . 2017 Apr 1;215(7):1167-1174
Journal article	Burel JG, Apte SH, Groves PL, <b>McCarthy JS</b> , Doolan DL. Polyfunctional and IFN- $\gamma$ monofunctional human CD4+ T cell populations are molecularly distinct. <i>JCI Insight</i> . 2017 Feb 9;2(3):e87499
Journal article	Smith CM, Jerkovic A, Truong TT, Foote SJ, <b>McCarthy JS</b> , et al. Griseofulvin impairs intraerythrocytic growth of <i>Plasmodium falciparum</i> through ferrochelatase inhibition but lacks activity in an experimental human infection study. <i>Sci Rep</i> . 2017 Feb 8;7:41975
Journal article	Rutledge GG, Böhme U, Sanders M, Reid AJ, Cotton JA, Maiga-Ascofare O, Djimé AA, Apinjoh TO, Amenga-Etego L, Manske M, Barnwell JW, Renaud F, Ollomo B, Prugnolle F, Anstey NM, Auburn S, Price RN, <b>McCarthy JS</b> , Kwiatkowski DP, Newbold CI, Berriman M, Otto TD. <i>Plasmodium malariae</i> and <i>P. ovale</i> genomes provide insights into malaria parasite evolution. <i>Nature</i> . 2017 Feb 2;542(7639):101-104
Journal article	Payne RO, Griffin PM, <b>McCarthy JS</b> , Draper SJ. <i>Plasmodium vivax</i> Controlled Human Malaria Infection - Progress and Prospects. <i>Trends in parasitology</i> . 2017; 33(2):141-150
Journal article	Campbell SJ, Nery SV, Wardell R, D'Este CA, Gray DJ, <b>McCarthy JS</b> , Traub RJ, Andrews RM, Llewellyn S, Valley AJ, Williams GM, Clements AC. Water, Sanitation and Hygiene (WASH) and environmental risk factors for soil-transmitted helminth intensity of infection in Timor-Leste, using real time PCR. <i>PLoS neglected tropical diseases</i> . 2017; 11(3):e0005393.
Journal article	Thriemer K, Ley B, Bobogare A, Dysoley L, Alam MS, Pasaribu AP, Sattabongkot J, Lambert E, Domingo GJ, <b>Commons R</b> , Auburn S, Marfurt J, Devine A, Aktaruzzaman MM, Sohel N, Namgay R, Drukpa T, Sharma SN, Sarawati E, Samad I, Theodora M, Nambanya S, Ounekham S, Mudin RN, Da Thakur G, Makita LS, Deray R, Lee SE, Boaz L, Danansuriya MN, Mudiyansele SD, Chinanonwait N, Kitchakarn S, Nausien J, Naket E, Duc TN, Do Manh H, Hong YS, Cheng Q, Richards JS, Kusriastuti R, Satyagraha A, Noviyanti R, Ding XC, Khan WA, Swe Phru C, Guoding Z, Qi G, Kaneko A, Miotto O, Nguitragool W, Roobsoong W, Battle K, Howes RE, Roca-Feltre A, Duparc S, Bhowmick IP, Kenangalem E, Bibit JA, Barry A, Sintasath D, Abeyasinghe R, Sibley CH, <b>McCarthy J</b> , von Seidlein L, Baird JK, Price RN. Challenges for achieving safe and effective radical cure of <i>Plasmodium vivax</i> : a round table discussion of the APMEN Vivax Working Group. <i>Malaria journal</i> . 2017; 16(1):141
Journal article	Campbell SJ, Nery SV, D'Este CA, Gray DJ, <b>McCarthy JS</b> , Traub RJ, Andrews RM, Llewellyn S, Valley AJ, Williams GM, Clements ACA. Investigations into the association between soil-transmitted helminth infections, haemoglobin and child development indices in Manufahi District, Timor-Leste. <i>Parasites &amp; vectors</i> . 2017; 10(1):192.
Journal article	Kearns TM, Currie BJ, Cheng AC, <b>McCarthy J</b> , Carapetis JR, Holt DC, Page W, Shield J, Gundjirryir R, Mulholland E, Ward L, Andrews RM. <i>Strongyloides</i> seroprevalence before and after an ivermectin mass drug administration in a remote Australian Aboriginal community. <i>PLoS neglected tropical diseases</i> . 2017; 11(5):e0005607

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Wardell R, Clements ACA, Lal A, Summers D, Llewellyn S, Campbell SJ, <b>McCarthy J</b> , Gray DJ, V Nery S. An environmental assessment and risk map of <i>Ascaris lumbricoides</i> and <i>Necator americanus</i> distributions in Manufahi District, Timor-Leste. <i>PLoS neglected tropical diseases</i> . 2017; 11(5):e0005565
Journal article	Woodberry T, Loughland JR, Minigo G, Burel JG, Amante FH, Piera KA, McNeil Y, Yeo TW, Good MF, Doolan DL, Engwerda CR, <b>McCarthy JS</b> , Anstey NM. Early Immune Regulatory Changes in a Primary Controlled Human <i>Plasmodium vivax</i> Infection: CD1c+ Myeloid Dendritic Cell Maturation Arrest, Induction of the Kynurenine Pathway, and Regulatory T Cell Activation. <i>Infection and immunity</i> . 2017; 85(6)
Journal article	Leow CH, Fischer K, Leow CY, Cheng Q, Chuah C, <b>McCarthy J</b> . Single Domain Antibodies as New Biomarker Detectors. <i>Diagnostics (Basel, Switzerland)</i> . 2017; 7(4).
Journal article	<b>Chew R</b> , Dorman A, <b>Woods ML</b> . Purpureocillium lilacinum keratitis: a case series and review of the literature. <i>Can J Ophthalmol</i> . 2016 Oct;51(5):382-385. doi: 10.1016/j.jcjo.2016.05.013. Epub 2016 Sep 3. Review. PMID: 27769331
Journal article	Thwaites PA, <b>Woods ML</b> . Sepsis and siderosis, <i>Yersinia enterocolitica</i> and hereditary haemochromatosis. <i>BMJ Case Rep</i> . 2017 Jan 4;2017. pii: bcr2016218185. doi: 10.1136/bcr-2016-218185. PMID: 28052950
Journal article	<b>Ulett KB</b> , Cockburn JW, Jeffree R, <b>Woods ML</b> . Cerebral cryptococcoma mimicking glioblastoma. <i>BMJ Case Rep</i> . 2017 Feb 10;2017. pii: bcr2016218824. doi: 10.1136/bcr-2016-218824. PMID: 28188169
Journal article	<b>Chew R</b> , Jongbloed S, Jegatheesan D, <b>Healy H, Ta K</b> , Ungerer J, McWhinney B, <b>Donovan P, Woods ML</b> . Ethambutol Is Cleared by a Contemporary High-Flux Hemodialyzer, and Drug Monitoring Ensures Safety and Therapeutic Effect. <i>Antimicrob Agents Chemother</i> . 2017 May 24;61(6). pii: e01988-16. doi: 10.1128/AAC.01988-16. Print 2017 Jun. PMID: 28396542
Journal article	<b>Commons RJ</b> , Thriemer K, Humphreys G, Suay I, Sibley CH, Guerin PJ, Price RN, The Vivax Surveyor: Online mapping database for <i>Plasmodium vivax</i> clinical trials, <i>Int J Parasitol Drugs Drug Resist</i> , 2017; 7(2):181-190.
Journal article	Thriemer K, Ley B, Bobogare A,... <b>Commons R</b> ,... Baird KJ, Price RN, Challenges for achieving safe and effective radical cure of <i>Plasmodium vivax</i> : a round table discussion of the APMEN Vivax Working Group, <i>Malar J</i> , 2017; 16:141.
Journal article	Miller HM, Tong A, Tunnicliffe DJ, Campbell D, Pinter J, <b>Commons RJ</b> , Athan E, Craig JC, Gilroy N, Green J, Henderson B, Howell M, Stuart RL, van Eps C, Wong MG, de Zoysa J, Jardine MJ, Identifying and integrating patient and caregiver perspectives for clinical practice guidelines on the screening and management of infectious microorganisms in hemodialysis units, <i>Hemodialysis International</i> , 2017; 21(2):213-223.
Journal Article	<b>Barber BE</b> , Grigg MJ, William T, Piera KA, Boyle MJ, Yeo TW, Anstey NM. Effects of Aging on Parasite Biomass, Inflammation, Endothelial Activation, Microvascular Dysfunction and Disease Severity in <i>Plasmodium knowlesi</i> and <i>Plasmodium falciparum</i> Malaria. <i>J Infect Dis</i> . 2017 Jun 15;215(12):1908-1917. doi: 10.1093/infdis/jix193. PMID: 28863470
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Journal Article	Loughland JR, Minigo G, Sarovich DS, Field M, Tipping PE, Montes de Oca M, Piera KA, Amante FH, <b>Barber BE</b> , Grigg MJ, William T, Good MF, Doolan DL, Engwerda CR, Anstey NM, <b>McCarthy JS</b> , Woodberry T. Plasmacytoid dendritic cells appear inactive during sub-microscopic <i>Plasmodium falciparum</i> blood-stage infection, yet retain their ability to respond to TLR stimulation. <i>Sci Rep</i> . 2017 Jun 1;7(1):2596. doi: 10.1038/s41598-017-02096-2. PMID: 28572564
Journal article	<b>Barber BE</b> , Rajahram GS, Grigg MJ, William T, Anstey NM. World Malaria Report: time to acknowledge <i>Plasmodium knowlesi</i> malaria. <i>Malar J</i> . 2017 Mar 31;16(1):135. doi: 10.1186/s12936-017-1787-y. PMID: 28359340

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Piera KA, Aziz A, William T, Bell D, González IJ, <b>Barber BE</b> , Anstey NM, Grigg MJ. Detection of Plasmodium knowlesi, Plasmodium falciparum and Plasmodium vivax using loop-mediated isothermal amplification (LAMP) in a co-endemic area in Malaysia. Malar J. 2017 Jan 13;16(1):29. doi: 10.1186/s12936-016-1676-9. PMID: 28086789
Journal article	Discovery, research, and development of new antibiotics: the WHO priority list of antibiotic-resistant bacteria and tuberculosis. Tacconelli E, Carrara E, Savoldi A, Harbarth S, Mendelson M, Monnet DL, Pulcini C, Kahlmeter G, Kluytmans J, Carmeli Y, Ouellette M, Outtersson K, Patel J, Cavalieri M, Cox EM, Houchens CR, Grayson ML, Hansen P, Singh N, Theuretzbacher U, Magrini N; WHO Pathogens Priority List Working Group. Lancet Infect Dis. 2017 Dec 21. pii: S1473-3099(17)30753-3. doi: 10.1016/S1473-3099(17)30753-3. [Epub ahead of print] PMID: 29276051
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Journal article	Empiric Therapy With Carbapenem-Sparing Regimens for Bloodstream Infections due to Extended-Spectrum $\beta$ -Lactamase-Producing Enterobacteriaceae: Results From the INCREMENT Cohort. Palacios-Baena ZR, Gutiérrez-Gutiérrez B, Calbo E, Almirante B, Viale P, Oliver A, Pintado V, Gasch O, Martínez-Martínez L, Pitout J, Akova M, Peña C, Molina Gil-Bermejo J, Hernández A, Venditti M, Prim N, Bou G, Tacconelli E, Tumbarello M, Hamprecht A, Giamarellou H, Almela M, Pérez F, Schwaber MJ, Bermejo J, Lowman W, Hsueh PR, Paño-Pardo JR, Torre-Cisneros J, Souli M, Bonomo RA, Carmeli Y, <b>Paterson DL</b> , Pascual Á, Rodríguez-Baño J; Spanish Network for Research in Infectious Diseases (REIPI)/European Study Group of Bloodstream Infections and Sepsis (ESGBIS)/INCREMENT Group. Clin Infect Dis. 2017 Oct 30;65(10):1615-1623. doi: 10.1093/cid/cix606. PMID: 29020250
Journal article	Reply to Corona and Cattaneo. Nation RL, Garonzik SM, Thamlikitkul V, Giamarellos-Bourboulis EJ, Forrest A, <b>Paterson DL</b> , Li J, Silveira FP. Clin Infect Dis. 2017 Sep 1;65(5):870-871. doi: 10.1093/cid/cix390. No abstract available. PMID: 29017285
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Journal article	Peripherally InSerted CEntral catheter dressing and securement in patients with cancer: the PISCES trial. Protocol for a 2x2 factorial, superiority randomised controlled trial. Rickard CM, Marsh NM, Webster J, Gavin NC, Chan RJ, McCarthy AL, Mollee P, Ullman AJ, Kleidon T, Chopra V, Zhang L, McGrail MR, Larsen E, Choudhury MA, Keogh S, Alexandrou E, McMillan DJ, Mervin MC, <b>Paterson DL</b> , Cooke M, Ray-Barruel G, Castillo MI, Hallahan A, Corley A, Geoffrey Playford E. <i>BMJ Open</i> . 2017 Jun 15;7(6):e015291. doi: 10.1136/bmjopen-2016-015291. PMID: 28619777
Journal article	Infections in Hematopoietic Cell Transplant Recipients: Results From the Organ Transplant Infection Project, a Multicenter, Prospective, Cohort Study. Schuster MG, Cleveland AA, Dubberke ER, Kauffman CA, Avery RK, Husain S, <b>Paterson DL</b> , Silveira FP, Chiller TM, Benedict K, Murphy K, Pappas PG. <i>Open Forum Infect Dis</i> . 2017 Mar 22;4(2):ofx050. doi: 10.1093/ofid/ofx050. eCollection 2017 Spring. PMID: 28491889
Journal article	Culture-independent detection of chlorhexidine resistance genes qacA/B and smr in bacterial DNA recovered from body sites treated with chlorhexidine-containing dressings. Choudhury MA, Sidjabat HE, Rathnayake IU, Gavin N, Chan RJ, Marsh N, Banu S, Huygens F, <b>Paterson DL</b> , Rickard CM, McMillan DJ. <i>J Med Microbiol</i> . 2017 Apr;66(4):447-453. doi: 10.1099/jmm.0.000463. PMID: 28463667
Journal article	Effect of appropriate combination therapy on mortality of patients with bloodstream infections due to carbapenemase-producing Enterobacteriaceae (INCREMENT): a retrospective cohort study. Gutiérrez-Gutiérrez B, Salamanca E, de Cueto M, Hsueh PR, Viale P, Paño-Pardo JR, Venditti M, Tumbarello M, Daikos G, Cantón R, Doi Y, Tuon FF, Karaiskos I, Pérez-Nadales E, Schwaber MJ, Azap ÖK, Souli M, Roilides E, Pournaras S, Akova M, Pérez F, Bermejo J, Oliver A, Almela M, Lowman W, Almirante B, Bonomo RA, Carmeli Y, <b>Paterson DL</b> , Pascual A, Rodríguez-Baño J; REIPI/ESGBIS/ INCREMENT Investigators. <i>Lancet Infect Dis</i> . 2017 Jul;17(7):726-734. doi: 10.1016/S1473-3099(17)30228-1. Epub 2017 Apr 22. PMID: 28442293
Journal article	Multihospital Occurrence of Pan-Resistant <i>Klebsiella pneumoniae</i> Sequence Type 147 with an ISEcp1-Directed blaOXA-181 Insertion in the mgrB Gene in the United Arab Emirates. Sonnevend Á, Ghazawi A, Hashmey R, Haidermota A, Girgis S, Alfaresi M, Omar M, Paterson DL, Zowawi HM, Pál T. <i>Antimicrob Agents Chemother</i> . 2017 Jun 27;61(7). pii: e00418-17. doi: 10.1128/AAC.00418-17. Print 2017 Jul. PMID: 28438945
Journal article	Association between augmented renal clearance and clinical outcomes in patients receiving $\beta$ -lactam antibiotic therapy by continuous or intermittent infusion: a nested cohort study of the BLING-II randomised, placebo-controlled, clinical trial. Udy AA, Dulhunty JM, Roberts JA, Davis JS, Webb SAR, Bellomo R, Gomersall C, Shirwadkar C, Eastwood GM, Myburgh J, <b>Paterson DL</b> , Starr T, Paul SK, Lipman J; BLING-II Investigators; ANZICS Clinical Trials Group. <i>Int J Antimicrob Agents</i> . 2017 May;49(5):624-630. doi: 10.1016/j.ijantimicag.2016.12.022. Epub 2017 Mar 9. PMID: 28286115
Journal article	Substantial Impact of Altered Pharmacokinetics in Critically Ill Patients on the Antibacterial Effects of Meropenem Evaluated via the Dynamic Hollow-Fiber Infection Model. Bergen PJ, Bulitta JB, Kirkpatrick CMJ, Rogers KE, McGregor MJ, Wallis SC, <b>Paterson DL</b> , Nation RL, Lipman J, Roberts JA, Landersdorfer CB. <i>Antimicrob Agents Chemother</i> . 2017 Apr 24;61(5). pii: e02642-16. doi: 10.1128/AAC.02642-16. Print 2017 May. PMID: 28264846
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Journal article	Can Ceftazidime-Avibactam and Aztreonam Overcome $\beta$ -Lactam Resistance Conferred by Metallo- $\beta$ -Lactamases in Enterobacteriaceae? Marshall S, Hujer AM, Rojas LJ, Papp-Wallace KM, Humphries RM, Spellberg B, Hujer KM, Marshall EK, Rudin SD, Perez F, Wilson BM, Wasserman RB, Chikowski L, <b>Paterson DL</b> , Vila AJ, van Duin D, Kreiswirth BN, Chambers HF, Fowler VG Jr, Jacobs MR, Pulse ME, Weiss WJ, Bonomo RA. <i>Antimicrob Agents Chemother</i> . 2017 Mar 24;61(4). pii: e02243-16. doi: 10.1128/AAC.02243-16. Print 2017 Apr. PMID: 28167541
Journal article	China's antibiotic resistance problems. Paterson DL, van Duin D. <i>Lancet Infect Dis</i> . 2017 Apr; 17(4):351-352. doi: 10.1016/S1473-3099(17)30053-1. Epub 2017 Jan 28. No abstract available. PMID: 28139428

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Journal article	Risk factors for relapse or persistence of bacteraemia caused by <i>Enterobacter</i> spp.: a case-control study. Harris PNA, Peri AM, Pelecanos AM, Hughes CM, Paterson DL, Ferguson JK. <i>Antimicrob Resist Infect Control</i> . 2017 Jan 21;6:14. doi: 10.1186/s13756-017-0177-0. eCollection 2017. PMID: 28127422
Journal article	Long-term mortality following <i>Pseudomonas aeruginosa</i> bloodstream infection. McCarthy KL, Paterson DL. <i>J Hosp Infect</i> . 2017 Mar;95(3):292-299. doi: 10.1016/j.jhin.2016.11.014. Epub 2016 Nov 30. PMID: 28089143
Journal article	Development and validation of the INCREMENT-ESBL predictive score for mortality in patients with bloodstream infections due to extended-spectrum- $\beta$ -lactamase-producing Enterobacteriaceae. Palacios-Baena ZR, Gutiérrez-Gutiérrez B, De Cueto M, Viale P, Venditti M, Hernández-Torres A, Oliver A, Martínez-Martínez L, Calbo E, Pintado V, Gasch O, Almirante B, Antonio Lepe J, Pitout J, Akova M, Peña-Miralles C, Schwaber MJ, Tumbarello M, Tacconelli E, Origüen J, Prim N, Bou G, Giamarellou H, Bermejo J, Hamprecht A, Pérez F, Almela M, Lowman W, Hsueh PR, Navarro-San Francisco C, Torre-Cisneros J, Carmeli Y, Bonomo RA, <b>Paterson DL</b> , Pascual Á, Rodríguez-Baño J; REIPI/ESGBIS/INCREMENT Group. <i>J Antimicrob Chemother</i> . 2017 Mar 1;72(3):906-913. doi: 10.1093/jac/dkw513. PMID: 28062685
Journal article	Dosing guidance for intravenous colistin in critically-ill patients. Nation RL, Garonzik SM, Thamlikitkul V, Giamarellou-Bourboulis EJ, Forrest A, <b>Paterson DL</b> , Li J, Silveira FP. <i>Clin Infect Dis</i> . 2017 Mar 1;64(5):565-571. doi: 10.1093/cid/ciw839. Epub 2016 Dec 23. PMID: 28011614
Journal article	Global prevalence of carbapenem resistance in neutropenic patients and association with mortality and carbapenem use: systematic review and meta-analysis. Righi E, Peri AM, Harris PN, Wailan AM, Liborio M, Lane SW, <b>Paterson DL</b> . <i>J Antimicrob Chemother</i> . 2017 Mar 1;72(3):668-677. doi: 10.1093/jac/dkw459. Review. PMID: 27999023
Journal article	Enhancement of antibiotic-activity through complexation with metal ions - Combined ITC, NMR, enzymatic and biological studies. Möhler JS, Kolmar T, Synnatschke K, Hergert M, Wilson LA, Ramu S, Elliott AG, Blaskovich MA, Sidjabat HE, <b>Paterson DL</b> , Schenk G, Cooper MA, Ziora ZM. <i>J Inorg Biochem</i> . 2017 Feb;167:134-141. doi: 10.1016/j.jinorgbio.2016.11.028. Epub 2016 Nov 24. PMID: 27984786
Journal article	Community-acquired <i>Pseudomonas aeruginosa</i> bloodstream infection: a classification that should not falsely reassure the clinician. McCarthy KL, Paterson DL. <i>Eur J Clin Microbiol Infect Dis</i> . 2017 Apr;36(4):703-711. doi: 10.1007/s10096-016-2852-0. Epub 2016 Dec 9. PMID: 27942878
Journal article	Identification of IncA/C Plasmid Replication and Maintenance Genes and Development of a Plasmid Multilocus Sequence Typing Scheme. Hancock SJ, Phan MD, Peters KM, Forde BM, Chong TM, Yin WF, Chan KG, <b>Paterson DL</b> , Walsh TR, Beatson SA, Schembri MA. <i>Antimicrob Agents Chemother</i> . 2017 Jan 24;61(2). pii: e01740-16. doi: 10.1128/AAC.01740-16. Print 2017 Feb. PMID: 27872077
Journal article	Proposed primary endpoints for use in clinical trials that compare treatment options for bloodstream infection in adults: a consensus definition. 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, <b>Paterson DL</b> . <i>Clin Microbiol Infect</i> . 2017 Aug;23(8):533-541. doi: 10.1016/j.cmi.2016.10.023. Epub 2016 Nov 1. PMID: 27810466
Journal article	Comparison of <i>Clostridium difficile</i> Ribotypes Circulating in Australian Hospitals and Communities. Furuya-Kanamori L, Riley TV, <b>Paterson DL</b> , Foster NF, Huber CA, Hong S, Harris-Brown T, Robson J, Clements AC. <i>J Clin Microbiol</i> . 2016 Dec 28;55(1):216-225. doi: 10.1128/JCM.01779-16. Print 2017 Jan. PMID: 27807147
Journal article	Asymptomatic <i>Clostridium difficile</i> colonization in two Australian tertiary hospitals, 2012-2014: prospective, repeated cross-sectional study. Furuya-Kanamori L, Clements AC, Foster NF, Huber CA, Hong S, Harris-Brown T, Yakob L, <b>Paterson DL</b> , Riley TV. <i>Clin Microbiol Infect</i> . 2017 Jan;23(1):48.e1-48.e7. doi: 10.1016/j.cmi.2016.08.030. Epub 2016 Sep 8. PMID: 27615716
Journal article	Efficacy of ceftolozane/tazobactam against urinary tract and intra-abdominal infections caused by ESBL-producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> : a pooled analysis of Phase 3 clinical trials. Popejoy MW, <b>Paterson DL</b> , Cloutier D, Huntington JA, Miller B, Bliss CA, Steenbergen JN, Hershberger E, Umeh O, Kaye KS. <i>J Antimicrob Chemother</i> . 2017 Jan;72(1):268-272. Epub 2016 Oct 5. PMID: 27707990

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Journal article	Researching effective approaches to cleaning in hospitals: protocol of the REACH study, a multi-site stepped-wedge randomised trial. Hall L, Farrington A, Mitchell BG, Barnett AG, Halton K, Allen M, Page K, Gardner A, Havers S, Bailey E, Dancer SJ, Riley TV, Gericke CA, <b>Paterson DL</b> , Graves N. Implement Sci. 2016 Mar 24;11:44. doi: 10.1186/s13012-016-0406-6. PMID: 27009342
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Journal article	25-Hydroxyvitamin D Concentrations and Clostridium difficile Infection: A Meta-Analysis. Furuya-Kanamori L, Wangdi K, Yakob L, McKenzie SJ, Doi SAR, Clark J, <b>Paterson DL</b> , Riley TV, Clements ACA. JPEN J Parenter Enteral Nutr. 2017 Jul;41(5):890-895. doi: 10.1177/0148607115623457. Epub 2015 Dec 23. PMID: 26701764
Textbook Chapter	M. Lindsay Grayson, Sara E. Cosgrove, Suzanne M. Crowe, <b>James S. McCarthy</b> , William Hope, John Mills, Johan W. Mouton, and <b>David L. Paterson</b> Principles of Antimicrobial Use. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
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Textbook Chapter	<b>Robert J. Commons</b> , Julie A. Simpson, <b>James S. McCarthy</b> , and Ric N. Price. Artesunate. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	Ric N. Price, Julie A. Simpson, and <b>James S. McCarthy</b> . Halofantrine. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	Rusheng Chew and <b>James S. McCarthy</b> . Paromomycin. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	James Pollard and <b>James S. McCarthy</b> . Iodoquinol and Quinacrine In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Sarah Coghill</b> , Steve McGloughlin, and <b>James S. McCarthy</b> . Diethylcarbamazine. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	Paul M. Griffin and <b>James S. McCarthy</b> . Niclosamide. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>David L. Paterson</b> . Cephadroxil, Cephaloridine, Cephacetrile, Cephapirin, Cephadrine, and Other Rarely Used First-Generation Cephalosporins In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>David L. Paterson</b> and Yohei Doi. Cefaclor, Cefprozil, and Loracarbef In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	Hisashi Baba and <b>David L. Paterson</b> . Cefotiam, Cefuzonam, Cefamandole, Cefonicid, and Ceforanide In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	Baek-Nam Kim and <b>David L. Paterson</b> Cefotaxime. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Textbook Chapter	Hugh Wright and Andrea Endimiani. Ceftazidime and Ceftazidime–Avibactam In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Andrew Henderson</b> , Baek-Nam Kim, and <b>David L. Paterson</b> . Ceftobiprole In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>David L. Paterson</b> . Cefiderocol (S-649266). In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Marion L. Woods</b> . Pentamidine. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Andrew M. Redmond</b> . Atovaquone. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Tony Allworth</b> and M. Lindsay Grayson. Avarofloxacin, Nemonoxacin, and Zabofloxacin In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Krispin M. Hajkowicz</b> . Mefloquine. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.
Textbook Chapter	<b>Krispin M. Hajkowicz</b> and Allen C. Cheng. Quinine and Quinidine. In: Grayson ML, Cosgrove SE, Crowe SM, Hope W, McCarthy JS, Mills J, Mouton JW and Paterson DL. Kucers' The Use of Antibiotics 7th Ed. Boca Raton: CRC Press; 2017.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Invited	<b>Paterson DL</b> . "Current and Upcoming Trials in Antimicrobial Resistance". Singapore International Infectious Diseases Conference. Singapore, August 2017.
Invited	<b>Paterson DL</b> . "Management of Gram negative infections – what's new, what's trending". Singapore International Infectious Diseases Conference. Singapore, August 2017.
Invited	<b>Paterson DL</b> . "Informed treatment choice for the management of resistant Pseudomonas and extended-spectrum beta-lactamase producing bacteria" European Conference on Clinical Microbiology and Infectious Diseases, Vienna, Austria, April 2017.
Invited	<b>Hajkowicz K</b> . Ensuring Optimal Selection of Antimicrobials for Treatment of Pneumonia in Asia and the Pacific. 6th Asia Pacific Region Conference of the International Union Against Tuberculosis and Lung Disease, Tokyo
Poster	<b>McCarthy K</b> . Virulence genes in the setting of early patient death in <i>P. aeruginosa</i> blood stream infection isolates; Focused Meeting 2017: 16th International Conference on Pseudomonas, Liverpool
Poster	<b>McCarthy K</b> . <i>P. aeruginosa</i> blood stream infection isolates from patients with recurrent blood stream infection: Is it the same genotype? Focused Meeting 2017: 16th International Conference on Pseudomonas, Liverpool
Poster	<b>McCarthy K</b> . <i>P. aeruginosa</i> blood stream infection in febrile neutropenic patients? Focused Meeting 2017: 16th International Conference on Pseudomonas, Liverpool

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	A 16 year review of <i>Coxiella burnetii</i> infective endocarditis in a tertiary cardiac centre in Queensland, Australia Armstrong, <b>McCarthy K</b> , Horvath R. International symposium on Modern Concepts of Endocarditis and Cardiovascular Infections, Dublin
Oral	<b>James McCarthy</b> American Society for Tropical Medicine and Hygiene (ASTMH), Baltimore, USA
Poster	<b>John Woodford</b> . ASTMH, Baltimore, USA
Oral	<b>James McCarthy</b> ASID, Blue Mountains, NSW
Invited	<b>James McCarthy</b> Joint International Tropical Medicine Meeting 2017, Bangkok, Thailand
Oral	<b>James McCarthy</b> AID Symposium, Beijing, China
Oral	<b>James McCarthy</b> Biology & Pathology of the Malaria Parasite, EMBL, Heidelberg, Germany
Oral	<b>James McCarthy</b> APMEN Vivax Working Group Annual Meeting, Denpasar, Indonesia
Oral	<b>James McCarthy</b> Plasmodium vivax Research Conference, Manaus, Brazil
Invited	<b>Redmond AM</b> . Dyslipidaemia in HIV. World Congress of Lipidology 2017

# INTERNAL MEDICINE RESEARCH UNIT

The Internal Medicine Research Unit supports investigator initiated collaborative research including basic, clinical and health services studies intended to directly improve hospital and post-hospital patient outcomes. We have expertise in design and evaluation of complex interventions using multi-methods research, and collaborate with a range of universities and health services.

Our main focus areas are:

- Geriatric syndromes and frailty in older inpatients
- Multidisciplinary collaborative models of care for inpatients
- Multidisciplinary management of chronic diseases including heart failure and multi-morbidity
- Quality improvement methods, health services research methods and implementation science

In 2017 we have completed recruitment for the CHERISH multisite trial, successfully recruiting over 1000 older inpatients across 4 hospitals in a cluster randomised controlled trial of a quality improvement program to reduce geriatric syndromes (“Eat Walk Engage”). In July, CHERISH PI Dr Alison Mudge and co-investigator Dr Adrienne Young presented at the International Association of Geriatric and Gerontology in San Francisco, and in October we were delighted to host internationally renowned researcher Professor Sharon Inouye as one of our CHERISH co-investigators.

This year we have also had the primary outcome paper accepted for publication from a 5 site randomised controlled trial of exercise training in heart failure (EJECTION-HF), funded by a NHMRC New Investigator Grant. Dr Alison Mudge, Prue McRae and Dr Adrienne Young have collaborated on design and delivery of knowledge translation workshops with AusHSI, MNHHS CISS, and University of Adelaide/Flinders University.

## 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)
<b>Julie Adsett</b>	PhD Griffith 2012-2018	Aquatic exercise for patients with stable heart failure	Norman Morris, Suzanne Kuys, <b>Jennifer Paratz, Alison Mudge</b>
<b>Angela Byrnes</b>	PhD UQ 2015-2018	Investigating the nutritional status and care of older ( $\geq 65$ years) patients on two general surgical wards: A multiphase, action research study	Judy Bauer, <b>Adrienne Young, Alison Mudge, Merrilyn Banks</b>
<b>Karen Lee-Steere</b>	M Phil UQ 2017-2020	Improving the care of the older patient with or at risk of delirium in the acute care setting: patients and carer perspectives	Sally Bennett, Jacki Liddle, <b>Alison Mudge</b>

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>Alison Mudge</b>	Adjunct Professor	Improving acute and post-hospital care of older patients	QUT (2013-current)
<b>Charles Denaro</b>	Associate Professor		UQ (1998-current)
<b>Julie Adsett</b>	National Heart Failure or Australia Postgraduate Scholarship	Safety and efficacy of aquatic exercise in patients with stable heart failure	NHF 2012-17
<b>Dylan Flaws</b>	Queensland Junior Doctor Fellowship	Developing and validating a delirium risk score in older inpatients	2016-2018

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Alison Mudge</b>	<b>Prue McRae, Merrilyn Banks, Adrienne Young,</b> Adrian Barnett (QUT), Irene Blackberry (UMelb), Teresa Green (QUT), Nick Graves (QUT), Ruth Hubbard (UQ), Sharon Inouye (Harvard), Sue Kurrle (U Syd), Kwang Lim (U Melb), Nancye Peel (UQ)	CHERISH: Collaborative for Hospitalised Elders Reducing the Impact of Stays in Hospital
<b>Alison Mudge</b>	<b>Alison Mudge, Prue McRae, Samantha Olenski, Elise Treleaven, Margaret Cahill, Karen Lee-Steere</b>	Delirium Day: a hospital wide quality audit
<b>Julian de Looze</b>	<b>Julian de Looze, Joan Webster, Charles Denaro, Alison Mudge, John Gowardman, Robyn Fox, Catriona Booker, Peter Thomas, Samantha Olenski, Elise Treleaven, Melissa Eastgate, Tracy Glynn</b>	Patients of Concern: A qualitative exploratory study within the Royal Brisbane and Women's Hospital
<b>Julian de Looze</b>	<b>Julian de Looze,</b> Sonya Osborne, Helen Cleak, Nicole White, Xing Lee, Cara Joyce Caliban	Mapping patient referral decision making and the patient journey from the Department of Emergency Medicine to EPICentre: an exploratory study
<b>Alison Mudge , Prue McRae</b>	Paul Bew (Brighton), Jofferson Ylarde (Brighton), Debbie Leahy (Brighton), Simon Smith (QUT)	Moving Brighton Forward: mobility in a subacute setting
<b>Julie Adsett</b>	<b>Julie Adsett, Alison Mudge,</b> Norm Morris (Griffith Un)	Exercise adherence and outcomes in heart failure patients: substudy of EJECTION-HF
<b>Alison Mudge</b>	<b>Alison Mudge, Dylan Flaws, Gerard Byrne</b>	Systematic review tools to predict delirium during adult inpatient admissions

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Alison Mudge</b>	<b>Alison Mudge, Margaret Shaw</b>	Effect of pre-planned physician involvement in care of adult surgical patients on clinical and health service outcomes: a systematic review
<b>Peter Donovan</b>	<b>Peter Donovan, Alison Mudge</b> , Jenny Martin (Uni Newcastle), Michael Barras (Princess Alexandra Hospital), James Rowland, Champika Pattullo	Interventions to improve safety and quality in the management of anticoagulants for therapeutic indications in hospital inpatients: systematic review
<b>Peter Donovan</b>	<b>Ian Coombes, Glen Kennedy (Cancer Care Services), Alison Mudge (Internal Medicine), Champika Pattullo (Clinical Pharmacology)</b> , Bonnie Tai (Prince Charles Hospital)	Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	Michael Barras, (Princess Alexandra Hospital), <b>Ian Coombes, Jason Roberts, Ms Carla Scuderi (Pharmacy), Charles Denaro (Internal Medicine), John Atherton</b> , Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)	Development of a therapeutic range for enoxaparin in patients with renal impairment
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	Nicola Harper, Dr Danielle Stowasser, Natasha Truloff (Metro North IT), <b>Ian Coombes, (Pharmacy), Charles Denaro (Internal Medicine)</b> , Timothy Dunn (Caboolture Hospital Pharmacy), Anita Pelecanos (QIMR Berghofer)	Evaluation of the Implementation of Electronic Prescribing using Interrupted Time-Series Analysis at Two Hospitals in Queensland
<b>Phillip Robinson (Rheumatology)</b>	<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b> , Nicola Dalbeth (University of Auckland, Auckland Hospital)	A Health Economic Analysis Of The American College Of Rheumatology Guideline To Monitor Serum Urate Every 6 Months After Reaching Target In Gout Treatment
<b>Ian Coombes (Pharmacy)</b>	<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b> , Michael Barras (Pharmacy), Charles Mitchel (UQ) Brooke Myers, Christy Noble, Trudy Teasdale, Linda Stockwell (Gold Coast University Hospital)	Improving Intern Medical Officer Prescribing through an Intervention of Self-Assessment and Feedback



## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Laurie Grealish (Griffith/GCUH)	Alison Mudge, Margaret Cahill	Using Normalisation Process Theory to engage nurses in delirium care
Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children's Research Institute), Dr Katrina Spillsbury (Curtin University of Technology)	Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)	IMPROVE - Investigating Medication re-Purposing to Reduce risk of Ovarian cancer and Extend survival

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Alison Mudge,</b> <b>Prue McRae,</b> <b>Merrilyn Banks,</b> <b>Adrienne Young,</b> <b>Teresa Green,</b> Adrian Barnett, Irene Blackberry, Nick Graves, Ruth Hubbard, Sharon Inouye, Sue Kurrle, Kwan Lim, Nancye Peel	Internal Medicine Research Unit; Internal Medicine and Aged Care; Nursing; Nutrition and Dietetics	CHERISH: Collaborative for Hospitalised Elders Reducing the Impact of Stays in Hospital	Queensland Accelerate Partnership Grant	\$600,000	\$1,500,000 (2015-2017)
<b>Alison Mudge,</b> Ruth Hubbard, Len Gray, Elizabeth Whiting, Elizabeth Beattie, <b>Merrilyn Banks,</b> <b>Prue McRae,</b> Fred Graham, <b>Adrienne Young</b>	Internal Medicine Research Unit; Internal Medicine and Aged Care, Nutrition and Dietetics	The Older Person Friendly Hospital,	Brisbane Diamantina Health Partners Strategic Partnership Grant	\$6,000	\$20,000

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Alison Mudge, Prue McRae, Margaret Cahill, Karen Lee-Steere, Elise Treleaven, Simon Finnigan	Internal Medicine Research Unit; Internal Medicine Services	Delirium and dementia Day” a point prevalence survey	RBWH Foundation	\$5,000	\$32,180 (2017-18)
<b>Adrienne Young,</b> Angela Byrnes	Dept of Nutrition and Dietetics, Internal Medicine Research Unit	Local practice in relation to nutritional care of older (≥65 years) surgical patients	RBWH Foundation	\$10,125	\$20,250 (2017-18)
Dr Susan Jordan (Queensland Institute of Medical Research Berghofer), Prof Sallie-Anne Pearson (University of New South Wales), Dr Nirmala Pandeya (University of Queensland), Assoc Prof Michael Coory (Murdoch Children’s Research Institute), Dr Katrina Spillsbury (Curtin University of Technology), <b>Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care)</b>	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	IMPROVE - Investigating Medication re-Purposing to Reduce risk of Ovarian cancer and Extend survival	National Health and Medical Research Council	\$246,104	\$438,313 (2017-2021)
<b>Dr Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care),</b> Michael Barras, (Princess Alexandra Hospital, University of Queensland), <b>Ian Coombes,</b> <b>Jason Roberts,</b> <b>Ms Carla Scuderi (Pharmacy), Assoc Prof Charles Denaro (Internal Medicine), John Atherton (Cardiology),</b> Ms Bonnie Tai (Prince Charles Hospital), Ms Anita Pelecanos (QIMR Berghofer)	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	Development of a therapeutic range for enoxaparin in patients with renal impairment	RBWH Foundation	\$40,000	\$40,000 2017

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Peter Donovan (Clinical Pharmacology, Internal Medicine and Aged Care), Ian Coombes, Glen Kennedy (Cancer Care Services), Alison Mudge (Internal Medicine), Champika Pattullo (Clinical Pharmacology), Bonnie Tai (Prince Charles Hospital)</b>	<b>Clinical Pharmacology, Internal Medicine and Aged Care</b>	Collaborative Optimisation of Anticoagulation (COAG) Pilot Study at RBWH	Metro North SEED and LINK grants	\$93,967	\$93,967 2017

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	<b>Mudge AM, Banks MD, Barnett AG, Blackberry I, Graves N, Green T, Harvey G, Hubbard RE, Inouye SK, Kurrle S, Lim K, McRae P, Peel NM, Suna J, Young AM.</b> CHERISH(collaborative for hospitalised elders reducing the impact of stays in hospital):protocol for a multi-site improvement program to reduce geriatric syndromes in older inpatients. <i>BMC Geriatrics</i> 2017; 17 (1):11
Journal article	<b>Adsett J, Morris N, Kuys S, Hwang R, Mullins R, Khatun M, Paratz J, Mudge A.</b> Aquatic exercise training is effective in maintaining exercise performance in trained heart failure patients: a randomised crossover pilot trial. <i>Heart Lung Circ</i> 2017; 26(6):572-579
Journal article	<b>Campbell J, Coyer F, Mudge A, Roberston I, Osborne S.</b> Candida albicans colonisation, continence status and incontinence-associated dermatitis in the acute care setting: pilot trial. <i>Int Wound J</i> 2017; 14 (3):488-95
Journal article	<b>Byrnes A, Banks M, Mudge A, Young A, Bauer J.</b> Enhanced Recovery After Surgery as an auditing framework for identifying improvements to perioperative nutrition care of older surgical patients. <i>Eur J Clin Nutr</i> 2017 Dec 29 doi:10.1038/s41430-017-0049-y epub ahead of print
Invited commentary	<b>Mudge AM, Hubbard RE.</b> Frailty: mind the gap. <i>Age Ageing</i> 2017 Dec 29 doi:10.1093/ageing/afx193
Journal article	<b>Young AM, Banks MD, Mudge AM.</b> Improving nutrition care and intake for older hospital patients through system-level dietary and mealtime interventions. <i>Clinical Nutrition ESPEN</i> 2017 doi:10.1016/j.clnesp.2017.12.009 epub ahead of print
Journal article	<b>Chew R, Jongbloed S, Jegatheesan D, Healy H, Ta K, Ungerer K, McWhinney B, Donovan P, Woods M.</b> Ethambutol Is a Dialysable Drug, and Drug Monitoring Ensures Safety and Therapeuticity. <i>Antimicrobial Agents and Chemotherapy</i> . April 2017. 61(6):AAC.01988-16. DOI 10.1128/AAC.01988-16.
Journal article	Myers B, Mitchell C, Whitty J, <b>Donovan P, Coombes I.</b> Prescribing and medication communication on the post-take ward round: Brief Communications. <i>Internal Medicine Journal</i> . April 2017: 47(4):454-457. DOI 10.1111/imj.13280.
Journal article	<b>Paradissis C, Coombes I, Donovan P, Doran E, Mckean M, Barras M.</b> The type and incidence of adverse drug events in ageing medical inpatients and their effect on length of hospital stay. <i>Journal of Pharmacy Practice and Research</i> . February 2017: 47(5). DOI 10.1002/jppr.1255.
Invited review	<b>Donovan P.</b> Access to Unregistered Drugs in Australia. <i>Aust Prescr</i> . 2017 Oct;40(5):194-196. DOI: 10.18773/austprescr.2017.062

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Invited keynote	<b>Mudge A.</b> Beyond assessment: improving care of hospitalised elders. Global Acute Care Excellence Forum 2017 Brisbane Australia
Invited keynote	<b>Mudge A.</b> Care of older patients. 10th Health Services and Policy Research Conference (HSRAANZ) 2017 Gold Coast Australia
Invited keynote	<b>Mudge A.</b> Eat Walk Engage: improving care of older inpatients. South Australian Internal Medicine Research Association annual meeting 2017 Adelaide Australia
Invited keynote	<b>Mudge A.</b> Frailty in heart failure: exercise and outcomes. Queensland Heart Failure Service Forum 2017 Brisbane Australia
Oral invited	<b>Mudge A, McRae P, Lee-Steere K, Cahill M.</b> . Eat Walk Engage: improving outcomes for hospitalised elders. International Association of Geriatrics and Gerontology meeting 2017 San Francisco, USA
Oral invited	<b>Mudge A.</b> Exercise in heart failure. Novartis National Health Failure Congress 2017 Brisbane Australia
Oral invited	<b>C. Denaro</b> Future of Biologic Therapies. . General Practice Conference & Exhibition, Brisbane.
Oral invited	<b>C Denaro</b> Replagal MOA and Evidence of Efficacy. JPAC Fabry Advisory Board meeting, Seoul South Korea
Oral invited	<b>C Denaro.</b> Efficacy & Safety of Fabrazyme/Sanofi-Genzyme's South Korean Workshop. Seoul South Korea.
Oral	<b>Young A, Mudge AM, McRae P, Banks M.</b> Eat Walk Engage: improving nutritional care and intake of hospitalised elders. International Association of Geriatrics and Gerontology meeting 2017 San Francisco, USA
Oral	<b>Mudge A, McRae P, Reade M, Donovan P, Walker P.</b> An interdisciplinary collaborative care model to improve care for older vascular surgical patients. Internal Medicine Society of Australia and New Zealand (IMSANZ) Annual Scientific Meeting 2017 Hobart Australia
Oral	<b>Mudge AM, Denaro CP,</b> Meyers D, <b>Scott A</b> et al. Exercise training plus disease management for patients recently hospitalised with heart failure. Queensland Cardiovascular Research Network Forum 2017 Brisbane Australia
Oral	<b>Byrnes A, Young A, Mudge A, Banks M,</b> Bauer J. EXploring practice gaps to improve PERIoperative Nutrition Care of the Elderly (EXPERIENCE Study). Asia Pacific Conference for Clinical Nutrition, November 2017.
Oral	<b>Byrnes A, Young A, Mudge A, Banks M,</b> Bauer J. Hand grip strength alone is not an accurate indicator of malnutrition in older patients before, during or after admission to surgical wards. Dietitians Association of Australia. May 2017.
Oral	<b>Adsett J,</b> Mandrusiak A, Miller S. Getting to the Heart of the Matter: What is the landscape of HF rehabilitation in Australia? Australian Physiotherapy Association National Conference, Oct 2017
Poster	<b>Mudge AM, McRae P, Bew P, Ylarde J, Smith S.</b> Activity patterns and mobility barriers in a rehabilitation setting. International Association of Geriatrics and Gerontology meeting 2017 San Francisco, USA
Poster	Hickey A, <b>Adsett J, Atheron JJ, Denaro C,</b> Nunan T, Peters R.A State-wide approach to multidisciplinary care. Heart Failure Evaluation and Reporting of Outcomes: HERO European Society of Cardiology Heart Failure Congress, Paris France.
Poster	<b>Byrnes A, Young A, Banks M, Mudge A,</b> Bauer J. Hand grip strength alone is not an accurate indicator of malnutrition in older patients before, during or after admission to surgical wards. American Society of Parenteral and Enteral Nutrition Clinical Nutrition Week, February 2017.
Poster	<b>Mudge A, McRae P, Lee-Steere K, Cahill M, Kurtz B.</b> Eat Walk Engage: a systematic approach to implementing a delirium prevention program in older hospitalized patients. Occupational Therapy Australia 27th National Conference. Perth July 2017

## OTHER COMMUNICATIONS AND OUTPUTS:

### PRESENTATIONS:

- Mudge A. Preventing delirium. Gold Coast University Hospital Delirium Symposium.(invited keynote speaker)
- Mudge A. Getting moving: challenges and evidence to improve mobility in hospital acute and subacute settings. (invited keynote speaker)
- Mudge A. Preventing delirium. April No Falls Week state-wide videoconference (invited presentation)
- Mudge A. Delirium. State-wide steering committee meeting, Recognising and Responding to Clinical Deterioration (invited presentation)
- Mudge A. The older person friendly hospital. State-wide Older Persons Health Clinical Network/State-wide General Medicine Network combined meeting, Townsville (invited speaker)

### WORKSHOPS:

- HSRAANZ 10th national conference, Gold Coast October 2017. Translating evidence into practice: making sense of implementation theories and frameworks. Harvey G, Kitson A, Mudge A, Lynch E.
- MNHHS CISS innovations workshop, Brighton August 2017. Introduction to knowledge translation. Eames S, McRae P, Young A, Mudge A,.
- AusHSI/Uni Adelaide/MNHHS Knowledge Translation Workshop Brisbane May 2017. Getting Evidence into Practice: Steps to Success

# KIDNEY HEALTH SERVICE

Research produced by the Kidney Health Service is recognised at the highest levels in Australia.

Dr Mallett was successful in a second flagship in genomic research in kidney disease, funded by the Australian Health Genomic Alliance, a Federal Government Initiative. It is the first time a researcher has held two flagships nationally. This funding success is in addition to the four National Health and Medical Research Council funded bodies of research – two Centre of Research Excellence in CKD and End of Life and two project grants – underway.

The Kidney Supportive Care Research Group, headed by Associate Professor Helen Healy and Professor Ann Bonner, was awarded the Health Services and Implementation category of the Metro North Research Excellence Awards and the prestigious Australian Council on Healthcare Standards Clinical Excellence and Patient Safety Award.

These, and other achievements like the long list of presentations at local, national and international conferences, are the outcomes of the research of an increasing number of our staff, representing all professions in our multidisciplinary teams, and a strong pipeline of young researchers (19) enrolled in research higher degrees, Two of the four RHD completed in 2017 are employed in the Kidney Health Service.

Academic institutions recognised two of our senior researchers, with Associate Professorship conferred by the Faculty of Medicine, University of Queensland on Helen Healy and by the School of Medicine, Griffith University on Dwarakanathan Ranganathan.

## 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)
Hajar Alasmari	PhD, QUT (2013-2018)	Examining intensive care nurses' clinical decision-making associated with acute kidney injury and continuous renal replacement therapy	<b>Ann Bonner,</b> <b>Fiona Coyer</b>
Hayfa Almutary	PhD, QUT (2013-2017) conferred	Exploring symptom clusters in people with chronic kidney disease	<b>Ann Bonner,</b> Clint Douglas
Kylie Barr	PhD, University of Western Sydney (2015-2018)	Evaluation of the effectiveness of intradialytic yoga for patients with end stage kidney disease	Caroline Smith, Birinder Cheema, <b>Helen Healy</b>
Leanne Brown	PhD, QUT (2013-2017) conferred	Evaluating patient-centred decision making for end of life care in end stage kidney disease	Glenn Gardner, <b>Ann Bonner</b>
<b>Bryan Gregory</b>	MAppSc, QUT (2016-2018)	The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immune-suppressive drug levels in critically ill patients with acute kidney injury.	<b>Fiona Coyer,</b> <b>Ann Bonner</b>
Kathryn Havas	PhD, QUT (2014-2017)	Comparison of a brief and an in-depth intervention to support self-management in people with chronic kidney disease	<b>Ann Bonner,</b> Clint Douglas
Van Hoang Lan	PhD, QUT (2016-2019)	Relationship between health care supports, social supports and patient outcomes among haemodialysis population in Vietnam	<b>Ann Bonner,</b> <b>Theresa Green</b>

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Becker M.P. Law	PhD, QUT (2015-2018)	Functional characterisation of lymphocyte subsets in human kidney disease	<b>Helen Healy, Andrew Kassianos,</b> Ken Beagley, Ray Wilkinson
Tain Lloyd	MAppSc, QUT (2017-2019)	Investigation of chronic kidney disease and stroke	<b>Ann Bonner, Theresa Green, Louise Purtell</b>
<b>David McIntyre</b>	MAppSc, QUT (2016-2018)	Haemodialysis nurse sensitive indicators	Ann Bonner, Fiona Coyer
<b>Andrew Mallett</b>	PhD, UQ (2014-2017) conferred	Genetic Diagnostics in Genetic Renal Disease - Methods, Applications and Therapeutics	<b>Helen Healy,</b> Wendy Hoy, Val Hyland, David Johnson
<b>Molly Milazi</b>	DHlthSc, QUT (2014-2020)	Nurse-led teach back intervention to improve people with End Stage Kidney Disease adherence with phosphate control	<b>Ann Bonner,</b> Clint Douglas
Nguyet Thi Nguyen	PhD, QUT (2014-2018)	Self-management of people with early stages of chronic kidney disease in Hanoi, Vietnam	<b>Ann Bonner,</b> Clint Douglas
<b>Pauline Nicholas</b>	MAppSc, QUT (2017-2019)	Cognitive impairment of patients with ESKD	<b>Ann Bonner, Theresa Green, Louise Purtell</b>
Arti Raghubar	Masters of Molecular Biology, University of Queensland (2yrs)	Investigating underlying molecular processes in IgA nephropathy cases using SWATH-MS	<b>Andrew Mallett, Helen Healy, Andrew Kassianos</b>
Haunnah Rheault	DHlthSc, QUT (2014-2020)	Health literacy and chronic disease self-management in Indigenous Australians.	<b>Ann Bonner</b>
Sri Krishna Venuthurupalli	PhD, University of Queensland (2010-2018)	CKD.QLD: Establishment of chronic kidney disease surveillance and research in Queensland, Australia	Wendy Hoy, <b>Helen Healy,</b> Robert Fassett
<b>Colette Wembenyui</b>	MPhil, QUT (2015-2017) conferred	Self-management in people with chronic kidney disease	<b>Ann Bonner,</b> Clint Douglas
Harith Yapa	PhD, QUT (2017-current)	Perceived palliative care needs of patients with Chronic Kidney Disease (CKDu) in Sri Lanka	<b>Ann Bonner, Louise Purtell,</b> Shirley Connell

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>Ann Bonner</b>	Honorary Research Fellow	Renal Nursing Professorial Unit	QUT (2011-current)
<b>Ann Bonner</b>	Honorary Professor	Faculty of Nursing & Midwifery	Hanoi Medical University (2014-current)
<b>Ann Bonner</b>	Visiting Renal Nurse Scholar	Renal Medicine	Princes Alexandra Hospital (2013-current)
<b>Ann Bonner</b>	Visiting Nurse Scholar	Department of Nursing	Logan & Beaudesert Hospitals (2014-current)

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Ann Bonner</b>	Katrina Campbell (Bond University)	Technology use for information in Kidney Disease: A Survey of CKD patients
<b>Ann Bonner</b>	Shirley Chambers (QUT), Helen Healy, Patsy Yates (QUT), <b>Wendy Hoy</b> (UQ), Geoff Mitchell (UQ), <b>Adrian Kark, Carol Douglas</b> , James Stevenson (TPCH), Caroline Johnson (UWA), <b>Sharad Ratanjee</b>	Achieving needs-based end-of-life services: A prospective, longitudinal study of the pathways for patients with Stage 3-5 Chronic Kidney Disease (CKD)
<b>Ann Bonner</b>	Clint Douglas (QUT), Kathryn Havas (QUT), Cassandra Stone (Logan Hospital), Maureen Barnes (Logan Hospital), Jennifer Abel (Logan Hospital), Vincent Tam (QUT)	Evaluation of the integrated chronic disease nurse practitioner model of care
<b>Helen Healy</b>	<b>Ann Bonner, Louise Purtell</b> , Marcin Sowa (UQ), Wendy Hoy (UQ)	Evaluating the implementation of a Kidney Supportive Care Program into a Hospital and Health Service
<b>Helen Healy</b>	<b>Andrew Kassianos, George John, Andrew Mallett, Melissa Rist, Katrina Kildey</b> , Xiangju Wang (QPath), Kurt Giuliani (QPath), Ray Wilkinson (QPath), Becker Law (QUT), Arti Raghobar (QPath)	Identifying biologically relevant control and switch points driving progression of chronic kidney disease
<b>Helen Healy</b>	<b>Andrew Kassianos, Katrina Kildey, George John</b> , Ray Wilkinson (QPath), Ross Francis (PAH)	Characterising Immune response cell populations in kidney transplant rejection
<b>Helen Healy, Ann Bonner</b>	Wendy Hoy (UQ), Geoffrey Mitchell (UQ), Glenda Gobe (UQ), Luke Connelly (UQ), Zoltan Endre (UNSW), Kathryn Panaretto, Jeff Coombes (UQ), Robert Fassett	Chronic Kidney Disease Centre of Research Excellence (1079502)
<b>Andrew Mallett</b>	<b>Chirag Patel</b> , Amali Mallawaarachchi (Liverpool Hosp), Cathy Quinlan (Melbourne Children's Hosp), Zonitza Stark (Murdoch Research), Randall Faull (Royal Adelaide Hosp), Aron Chakera (Newcastle Hosp)	KidGen Collaborative Renal Genetics Rare Disease Flagship of Australian Genomics
<b>Andrew Mallett, Helen Healy</b>	Wendy Hoy (UQ), <b>Andrew Mallett, Helen Healy, Charles Denaro</b> , Samantha Stark, Vincent Lee (Westmead Hosp), Mark Thomas (Sir Charles Gardner Hosp)	The aCQuiRe Study



RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Andrew Mallett, Chirag Patel</b>	<b>Helen Healy, Julie McGaughran</b> , Melissa Little (Murdoch Research), Lorna Hale (Murdoch Research), Ernst Wolvetang (UQ), Cas Simons (UQ), Jo Crawford (UQ), Ian Smyth (Monash Uni), Peter Trmka (Lady Cilento Hosp), Hugh McCarthy (Sydney Children's Hosp), Steve Alexander (Sydney Children's Hosp), Amali Mallawaarachchi (Liverpool Hosp), Cathy Quinlan (Melbourne Children's Hosp), Zornitsa Stark (Murdoch Research)	NGS and iPSC Applications in Genetic and Inheritable Kidney Disease
<b>David McIntyre</b>	<b>Ann Bonner</b>	How frequent is frequent?: Monitoring for intradialytic hypotension in chronic dialysis patients over the age of 18
<b>Louise Purtell</b>	<b>Ann Bonner, Helen Healy</b> , Marcin Sowa (UQ)	Consideration of health economics in the care of kidney disease: A healthcare utilisation perspective (CHECK UP study)
<b>Dwarakanathan Ranganathan</b>	<b>Pauline Nicholas, Nigel Mott, George John, Kara Summers</b>	Radcath Study
<b>Dwarkanathan Ranganathan</b>	<b>Jason Roberts, George John</b>	POEMSLUN Study

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Suceena Alexander (Christian Medical College, Vellore, India)	<b>Helen Healy, George John, Andrew Kassianos</b>	Pathogenic molecular/cellular responses leading to chronic kidney disease in primary Focal and Segmental Glomerulosclerosis (FSGS) in Indians
Chen Au Peh (Royal Adelaide Hospital)	<b>Dwarakanathan Ranganathan, Helen Healy, Sharad Ratanajee</b>	ADVANCE Study
Balaji Hremagular (Gold Coast University Hospital)	<b>Ann Bonner, Louise Purtell</b>	Longitudinal Evaluation Of Patient-reported Assessments in those Receiving Dialysis (LEOPARD study)
Nikky Isbel (PAH)	<b>Dwarakanathan Ranganathan, Andrew Mallett</b>	aHUS Registry
Alberta Hoi	<b>Dwarakanathan Ranganathan, Paul Kubler</b>	Australian Lupus Registry and Biobank

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
David Jayne, Rona Smith	<b>Dwarakanathan Ranganathan, Andrew Mallett</b>	RITAZERAM study
Santosh Varughese (Christian Medical College, Vellore, India)	<b>Helen Healy, George John, Andrew Kassianos</b>	Molecular profiling in renal allograft recipients with acute rejection and chronic allograft dysfunction
Dr Scott Wilson	<b>Dwarakanathan Ranganathan, Andrew Mallett</b>	PODOCYTE Study
Patsy Yates (QUT)	<b>Ann Bonner</b>	Postdoctoral research fellowships
Patsy Yates (QUT), Geoff Mitchell (UQ), David Currow, Kathy Eagar (University of Wollongong), Helen Edwards (QUT & MNHHS Board), Glenn Gardner (QUT), Lindy Willmott (QUT), Robyn Clark (Flinders University), Jennifer Tieman (Flinders University)	<b>Ann Bonner</b>	NHMRC Centre of Research Excellence, End of Life Care (1060254).

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Ann Bonner	Best research paper	Australasian Cardiovascular Nursing College Conference, 10-11 March, Brisbane
Ann Bonner	Manuscript prize (2nd place)	European Dialysis and Transplant Nurses Association/European Renal Care Association
Helen Healy, Ilse Berquier, Ann Bonner, Carol Douglas, Danielle Heffernan, Wendy Hoy, Louise Purtell, Cassandra Rawlings, Carla Scuderi, Marcin Sowa, Mike Terry, Patsy Yates	MNHHS Research Excellence Award	Health Services and Implementation Research

RECIPIENT	AWARD	EVENT
Helen Healy, Ilse Berquier, Louise Purtell, Ann Bonner, Carol Douglas, Danielle Heffernan, Luke Worth, Bernadette Taylor	Quality Improvement and Patient Safety award	Australian Council on Healthcare Standards
Becker Law	Queensland Pathology Scholarship	PhD studies – commenced 2015

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Ann Bonner,</b> Clint Douglas	Professorial Nursing Unit, Kidney Health Service	Evaluation of the Integrated Chronic Disease Nurse Practitioner Service	Logan Hospital	\$72,579	\$72,579 (2017)
<b>Helen Healy,</b> <b>Andrew Kassianos,</b> Ray Wilkinson, Jason Mulvenna	Conjoint Kidney Research Group, Kidney Health Service	The role of human proximal tubular epithelial cell-derived exosomes in polarity-specific communication.	Royal Brisbane and Women's Hospital Research Foundation Project Grant	\$40,000	\$40,000 (2017)
<b>Helen Healy,</b> <b>Ann Bonner,</b> <b>Luke Worth,</b> <b>Ilse Berquier,</b> Luke Connolly, <b>Carol Douglas,</b> <b>Kate Mason, Mike Terry,</b> Wendy Hoy, Patsy Yates	CKD.Qld, Kidney Health Service	Evaluating the implementation of a Kidney Supportive Care Program into a Hospital and Health Service	Australian Centre for Health Service Innovation IG0022-000754	\$75,000	\$150,000 (2016-2017)
Wendy Hoy, <b>Helen Healy,</b> Luke Connolly, Geoff Mitchell, Kathryn Panaretto, Zoltan Endre , Jeff Coombes, Glenda Gobe, <b>Ann Bonner,</b> Rob Fassett	CKD.Qld, Kidney Health Service	Chronic Kidney Disease Centre of Research Excellence	NHMRC APP1079502	\$500,000	\$2,496,981 (2014-2019)
Wendy Hoy, <b>Helen Healy,</b> <b>Andrew Mallett,</b> <b>Charles Denaro,</b> Mark Thomas	CKD.Qld - Kidney Health Service, Internal Medicine and Aged Care	The aCQuiRe Study	Sanofi-Genzyme	\$250,000	\$946,554 (2016-2019)

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Andrew Kassianos, Helen Healy,</b> Ray Wilkinson, Leo Francis, Ross Francis	Conjoint Kidney Research Group, Kidney Health Service	Pathogenic dendritic cells in human kidney disease	NHMRC APP1099222	\$125,000	\$370,983 (2016-2018)
<b>Andrew Kassianos, Helen Healy,</b> Ray Wilkinson, Becker Law, Kenneth Beagley	Conjoint Kidney Research Group, Kidney Health Service	Pathogenic natural killer cells in human chronic kidney disease.	Royal Brisbane and Women's Hospital Research Foundation Project Grant	\$40,000	\$40,000 (2017)
Becker Law, <b>Helen Healy, Andrew Kassianos</b>	Conjoint Kidney Research Group, Kidney Health Service	Functional interactions between lymphocyte subsets and proximal epithelial cells in renal hypoxic injury and chronic kidney disease	Pathology Queensland – Study, Education and Research Committee PhD Scholarship	\$25,000	\$75,000 (2015-2018)
Melissa Little, Ian Smyth, Cas Simons, Steve Alexander, <b>Andrew Mallett</b>	KidGen, Kidney Health Service	Applying Functional Genomics to Kidney Disease	NHMRC APP1098654	\$300,000	\$1,229,316 (2016-2019)
<b>Andrew Mallett, Helen Healy, Chirag Patel, Julie McGaughran,</b> Cas Simons, Melissa Little	KidGen, Kidney Health Service	Functional Genomics in Inherited Kidney Disease	Royal Brisbane and Women's Hospital Research Foundation Project Grant	\$40,000	\$180,000 (2014-2017)
<b>Molly Milazi, Ann Bonner,</b> Clint Douglas	Professorial Nursing Unit, Kidney Health Service	A novel bundled intervention (4Ds) to improve adherence with phosphate control in people receiving haemodialysis for end stage kidney disease	Royal Brisbane and Women's Hospital Research Postgraduate Scholarship	\$33,884	\$33,884
<b>Molly Milazi, Ann Bonner,</b> Clint Douglas	Professorial Nursing Unit, Kidney Health Service	A novel bundled intervention (4Ds) to improve adherence with phosphate control in people receiving haemodialysis for end stage kidney disease	Queensland Health, Office of Health and Medical Research	\$9,916	\$9,916
<b>Molly Milazi, Ann Bonner,</b> Clint Douglas	Professorial Nursing Unit, Kidney Health Service	A novel bundled intervention (4Ds) to improve adherence with phosphate control in people receiving haemodialysis for end stage kidney disease	Queensland Nursing and Midwifery Union, Research Grant	\$2,500	\$2,500

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Patsy Yates, Geoff Mitchell, David Currow, Kathy Eagar, <b>Helen Edwards</b> , Glenn Gardner, Lindy Willmott, <b>Ann Bonner</b> , Robyn Clark, Jennifer Tierman	Professorial Nursing Unit, Kidney Health Service	End of Life Care Centre of Research Excellence	NHMRC APP1060254	\$515,511	\$2,495,543 (2013-2018)

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Abel J, Stone C, Barnes M, Havas K, Tam V, Mills K, Douglas C, <b>Bonner A</b> . An integrated nurse practitioner approach to improving management for individuals living with complex multiple chronic diseases. <i>Australian Diabetes Educator</i> . 2017;20(3):1-6.
Journal article	Almutary H, Douglas C, Almutary H, Douglas C, <b>Bonner A</b> . Towards a symptom cluster model in chronic kidney disease: A structural equation approach. <i>Journal of Advanced Nursing</i> . 2017;73:2450-2461.
Journal article	Campbell DJ, Mudge DW, Gallagher MP, Lim WH, <b>Ranganathan D</b> , Saweirs W, Craig JC. Infection Prophylaxis in Peritoneal Dialysis Patients: Results from an Australia/New Zealand Survey. <i>Perit Dial Int</i> . 2017 Mar-Apr;37(2):191-197. doi: 10.3747/pdi.2016.00037. Epub 2017 Jan 17.
Journal Article	<b>Chan S, Mallett AJ, Patel C</b> , 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</i> (2017) 22(Suppl1):11-14
Journal article	<b>Coleman S</b> , Havas K, Ersham S, Stone C, <b>Taylor B</b> , Graham A, Bublitz L, <b>Purtell L, Bonner A</b> . Patient satisfaction with nurse-led chronic kidney disease clinics: A multicentre evaluation. <i>Journal of Renal Care</i> . 2017;43(1):11-20. DOI: 10.1111/jorc.12189
Journal Article	Connor TM, Hoer S, <b>Mallett A</b> , Gale DP, Gomez-Duran A, Posse V, Antrobus R, Moreno P, Sciacovelli M, Frezza C, Duff J, Sheerin NS, Sayer JA, Ashcroft M, Wiesener MS, Hudson G, Gustafsson CM, Chinnery PF, Maxwell PH. Mutations in mitochondrial DNA causing tubulointerstitial kidney disease. <i>PLoS Genetics</i> (2017) 13(3)
Journal article	Douglas C., Schmalkuche D, Nizette D, Yates P, <b>Bonner A</b> . Nurse-led services in Queensland: A scoping study. <i>Collegian</i> , doi: 10.1016/j.collegn.2017.10.011 [Epub ahead of print]
Journal article	Havas K, Douglas C, <b>Bonner A</b> . Patient experiences of a chronic kidney disease self-management intervention: Closing the loop in person-centred care. <i>Patient Preference and Adherence</i> . 2017;11:1963-1973.
Journal article	Havas K, Douglas C, <b>Bonner A</b> . Person-centred care in chronic kidney disease: A cross-sectional study of patients' desires for self-management support. <i>BMC Nephrology</i> . 2017;18:17. DOI 10.1186/s12882-016-0416-2.
Journal article	Jardine MJ, Zuo L, Gray NA, de Zoysa JR, Chan CT, Gallagher MP, Monaghan H, Grieve SM, Puranik R, Lin H, Eris JM, Zhang L, Xu J, Howard K, Lo S, Cass A & Perkovic V; ACTIVE Dialysis Steering Committee ( <b>Ranganathan D</b> ) A Trial of Extending Hemodialysis Hours and Quality of Life. <i>J Am Soc Nephrol</i> . 2017 Jun;28(6):1898-1911. doi: 10.1681/ASN.2015111225. Epub 2017 Feb 1
Journal article	Law B, Wilkinson R, Wang X, Kilday K, Lindner M, Rist M, Beagley K, <b>Healy H*</b> , <b>Kassianos A*</b> . Interferon- $\gamma$ production by tubulointerstitial human CD56bright natural killer cells in renal fibrosis and chronic kidney disease. <i>Kidney International</i> , (2017) 92, 79-88.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Lee J, <b>Mott N</b> , Mahmood U, <b>Clouston J</b> , <b>Summers K</b> , <b>Nicholas P</b> , <b>Gois PHF</b> , <b>Ranganathan D</b> . Radiological Tenckhoff catheter insertion for peritoneal dialysis: A cost-effective approach. J Med Imaging Radiat Oncol. 2017 Aug 1. doi: 10.1111/1754-9485.12643. [Epub ahead of print]
Journal article	<b>Mahmood U</b> , <b>Healy HG</b> , <b>Kark A</b> , Cameron A, Wang Z, Abeysekera R, Hoy WE. Spectrum (Characteristics) of patients with chronic kidney disease (CKD) with increasing age in a major metropolitan renal service. BMC Nephrology; 2017;18:372
Journal Article	<b>Mahmood U</b> , Isbel N, Mollee P, <b>Mallett A</b> , Govindarajulu S, Francis R. Monoclonal gammopathy of renal significance triggering atypical haemolytic uraemic syndrome. Nephrology (2017) 22(Suppl1):15-17
Journal Article	<b>Mallett AJ</b> , McCarthy HJ, Ho G, Holman K, Farnsworth E, <b>Patel C</b> , 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. Kidney International (2017) 92(6):1493-1506
Journal article	Milazi M, <b>Bonner A</b> , Douglas C. The effectiveness of education or behavioural interventions on adherence to phosphate control in adults receiving haemodialysis: A systematic review. JBI Database of Systematic Reviews & Implementation Reports. 2017;15(4):971-1010. DOI: 10.11124/JBISRR-2017-003360
Journal article	Nataatmadja M, Cho Y, Pascoe EM, Darssan D, Hawley CM, Johnson DW; balANZ Trial Investigators ( <b>Ranganathan D</b> ). Association Between Peritoneal Glucose Exposure and Peritonitis in Peritoneal Dialysis Patients: The balANZ Trial. Perit Dial Int. 2017 Jul-Aug;37(4):407-413.
Journal article	<b>Purtell L</b> , <b>Berquier I</b> , <b>Douglas C</b> , <b>Taylor B</b> , <b>Kramer K</b> , <b>Heffernan D</b> , <b>Hoy W</b> , <b>Bonner A</b> , <b>Healy H</b> . What a patient wants: A consumer perspective of kidney supportive care. Nephrology. 2017;22(suppl. 3):49. DOI: 10.1111/nep.13104.
Journal article	<b>Ranganathan D</b> , <b>John GT</b> , Yeoh E, <b>Williams N</b> , <b>O'Loughlin B</b> , Han T, Jeyaseelan L, Ramanathan K, <b>Healy H</b> . A Randomized Controlled Trial to Determine the Appropriate Time to Initiate Peritoneal Dialysis after Insertion of Catheter (Timely PD Study). Perit Dial Int. 2017 Jul-Aug;37(4):420-428. doi: 10.3747/pdi.2016.00066. Epub 2017 Apr 13.
Journal article	<b>Rheault H</b> , <b>Bonner A</b> , <b>Coyer F</b> . Health literacy – I just don't get it. Journal for Nurse Practitioners. 2017;13(7):e334. DOI: 10.1016/j.nurpra.2017.05.042.
Journal article	Shao EX, Wilson GJ, <b>Ranganathan D</b> . Phentermine induced acute interstitial nephritis. BMJ Case Rep. 2017 Mar 9;2017. pii: bcr2017219452. doi: 10.1136/bcr-2017-219452
Journal Article	Venuthurupalli K, Hoy W, <b>Healy H</b> , Cameron A, Fassett R. CKD.QLD: Establishment of a chronic kidney disease (CKD) registry in Queensland, Australia. BMC Nephrology 2017;18:189
Journal article	Wang X, Wilkinson R, <b>Killey K</b> , Potriquet J, Mulvenna J, Lobb R, Möller A, Cloonan N, Mukhopadhyay P, <b>Kassianos A*</b> , <b>Healy H*</b> . Unique molecular profile of exosomes derived from primary human proximal tubular epithelial cells under diseased conditions. Journal of Extracellular Vesicles, (2017) 6(1), 1314073
Journal Article	<b>Wilson GJ</b> , <b>Kark AL</b> , Francis LP, Hoy W, <b>Healy HG</b> , <b>Mallett AJ</b> . The increasing rates of acute interstitial nephritis in Australia: a single centre case series. BMC Nephrology (2017) 18(1):329

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	Almutary H, <b>Bonner A</b> , Douglas C. Symptom cluster model for people with advance stages of chronic kidney disease. Paper presented at: 46th EDTNA/ERCA International Conference. 9-12 September 2017; Krakow, Poland.
Poster	Bennetts B, Ho G, Holman K, Farnsworth K, McCarthy H, Mallawaarachchi A, <b>Patel C</b> , Alexander S, <b>Mallett A</b> . Curation of the Australian Renal Gene Panels. 41st Annual Scientific Meeting of the Human Genetics Society of Australasia. 5-8 August 2017; Brisbane, Australia.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Invited	<b>Bonner A.</b> Shifting to transdisciplinary healthcare teams to deliver person-centred care for terminal kidney failure. Invited presentation to: CUHY-Y.K. Pao Foundation Centre for Nursing Excellence in Chronic Illness Care, Nethersole School of Nursing, Chinese University of Hong Kong. 19 May 2017; Hong Kong.
Invited	<b>Bonner A.</b> Advanced practice nurse-led model of care: An innovative integrated approach for patients with comorbid chronic diseases. Invited presentation to: CUHY-Y.K. Pao Foundation Centre for Nursing Excellence in Chronic Illness Care, Nethersole School of Nursing, Chinese University of Hong Kong. 20 May 2017; Hong Kong.
Invited	<b>Bonner A.</b> Evaluating the implementation of a novel multidisciplinary kidney supportive care program. Invited speaker at the Mater Translating Research into Practice Symposium. 22 November 2017; Brisbane, Australia.
Oral	<b>Bonner A,</b> Chambers S, <b>Healy H,</b> Hoy WE, Mitchell G, <b>Kark A, Ratanjee S,</b> Yates P. Renal patients' symptom experience and quality of life in their last year of life. Paper presented at: 46th EDTNA/ERCA International Conference. 9-12 September 2017; Krakow, Poland.
Oral	<b>Bonner A,</b> Chambers S, <b>Healy H,</b> Mitchell G, Yates P. Reflecting on researching vulnerable patients with end stage kidney disease: Lessons learnt to inform future research endeavours. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	<b>Bonner A,</b> Chambers S, <b>Healy H,</b> Ho, WE, Mitchell G, <b>Kark A, Ratanjee S,</b> Yates P. Tracking symptom experience and physical functioning in the last 12 months of life in advanced chronic kidney disease. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	<b>Bonner A,</b> Hoy WE, <b>Healy HG,</b> Mitchell G, Connelly L, Panaretto K, Endre Z, Coombes JS, Gobe G, Fassett RG, Cameron A. An overview and progress report of a multidisciplinary chronic kidney disease Centre of Research Excellence. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	<b>Bonner A, Purtell L, Healy H, Berquier I, Douglas C,</b> Hoy WE, <b>Taylor B.</b> Integrating renal and palliative care to support patients nearing end of life. <b>Paper presented at: Royal Brisbane and Women's Hospital Healthcare Symposium. 12-14 September 2017; Brisbane, Australia.</b>
Oral	<b>Bonner A, Purtell L, Healy H, Berquier I, Douglas C.</b> Hoy WE. Integrating renal and palliative care to support patients nearing end of life. Paper presented at: 46th EDTNA/ERCA International Conference. 9-12 September 2017; Krakow, Poland.
Poster	<b>Bonner A, Purtell L, Healy H, Berquier I, Douglas C,</b> Chaplin B, Hoy WE. Examining stakeholders' perspectives of the implementation of an integrated kidney supportive care program. Poster presented at: 46th EDTNA/ERCA International Conference. 9-12 September 2017; Krakow, Poland.
Oral	<b>Bonner A,</b> Stone C, Douglas C, Havas K, Abel J, Barnes M, Tam V, Mills K. Caring for complex chronic disease patients attending a novel nurse practitioner clinic. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	Brown L, Gardner G, <b>Bonner A.</b> A randomised controlled trial of OPTIONS for older patients with advanced kidney disease. Paper presented at 46th EDTNA/ERCA International Conference. 9-12 September 2017; Krakow, Poland.
Poster	Brown L, Gardner G, <b>Bonner A.</b> OPTIONS for the older patient with advanced kidney disease. Poster presented at: 46th EDTNA/ERCA International Conference. 9-12 September, Krakow, Poland
Oral	Brown L, Gardner G, <b>Bonner A.</b> A randomised controlled trial evaluating a decision support intervention for the older person with advanced kidney disease. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	Brown L, Gardner G, <b>Bonner A.</b> Challenges of engaging renal nurses in research activities. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	<b>Brown L, Bonner A, Gardner G.</b> A randomised controlled trial of <b>OPTIONS</b> for older patients with advanced kidney disease. Paper presented at: <b>Statewide Renal Clinical Network Forum. 19 May 2017; Brisbane, Australia.</b>
Oral	Chambers S, <b>Bonner A, Healy H</b> , Hoy W, Mitchell G, Kark A, Ratanjee S, Hoy W, Yates P. Renal patients' symptom experience and quality of life in the last year of life. Poster and oral presented at 46th EDTNA/ERCA International Conference; 2017 September 9-12; Krakow Poland.
Poster	Chambers S, <b>Bonner A, Healy H</b> , Hoy WE, <b>Kark A, Ratanjee S</b> , Mitchell G, Douglas C, Yates P. Terminal kidney disease: Health administrative data informing appropriate palliative models. <b>Poster presented at: Australian Palliative Care Conference. 6-8 September 2017; Adelaide, Australia.</b>
Poster	<b>Chan S</b> , Cameron (Salisbury) A, Wang Z, <b>Healy HG</b> , Hoy WE. The association of body mass index (BMI) with mortality and institution of renal replacement therapy (RRT) in CKD patients in the CKD-QLD Registry: Queensland, Australia. In: Journal of the American Society of Nephrology Supplement 2017;28;217. Poster presented at: Kidney Week American Society of Nephrology; 2017 October 31-November 5; New Orleans, US. (poster TH-PO455).
Poster	<b>Chan S</b> , Cameron A, Wang Z, Venuthurupalli SK, Tan KS, <b>Healy HG</b> , Hoy WE. Evaluating associations of body mass index (BMI) in chronic kidney disease patients (CKD) in the CKD.QLD Registry; Queensland Australia. In: Nephrology 2017;22(S3):4. Poster presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia.
Oral	Dinh TTH, <b>Bonner A</b> , Ramsbotham J, Clark R. A cluster randomised controlled trial of a self-management program for people with heart failure in Hanoi, Vietnam. Paper presented at: Australasian Cardiovascular Nursing College Conference. 10-11 March 2017; Brisbane, Australia.
Oral	<b>Douglas C, Kramer K, Taylor B, McNeil P, Healy H, Scuderi C, Purtell L, Bonner A</b> , Hoy W, <b>Berquier I</b> . Improving life for end stage kidney disease. <b>Paper presented at: Australian Palliative Care Conference. 6-8 September 2017; Adelaide, Australia.</b>
Oral	<b>Jakeman K, Jensen S, Stewart K</b> . Advancing renal foot care: Nursing staff and podiatry student partnerships. Paper presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Poster	<b>Kassianos A</b> , Rist MH, Giuliani K, Wang X, Law B, <b>Kildey K</b> , Wilkinson R, <b>Healy H</b> . Human hypoxic proximal tubule epithelial cell dysfunction and activation of CD1c+ dendritic cells. Poster presented at: 46th Annual Scientific Meeting of the Australasian Society for Immunology; 2017 November 27-December 1; Brisbane Australia.
Oral	<b>Kassianos A</b> , Law B, Wang X, <b>Kildey K</b> , Lindner M, Rist MJ, Beagley K, Wilkinson R, <b>Healy H</b> . Interleukin (IL)-17 production by tubulointerstitial human gamma-delta T cells in renal fibrosis and chronic kidney disease. In: Nephrology 2017;22(S3):28. Oral presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia. (oral)
Oral	<b>Kildey K, Kassianos AJ</b> , Law B, Wang X, See E, John GT, Wilkinson R, Francis RS, <b>Healy H</b> . Increased recruitment of lymphocyte subsets in human kidney transplant rejection. In: Nephrology 2017;22(S3):41. Oral presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia.
Poster	Law B, Wilkinson R, Wang X, <b>Kildey K</b> , Lindner M, Rist M, Beagley K, <b>Healy H, Kassianos A</b> . Human effector gamma-delta T cells in tubulointerstitial fibrosis and chronic kidney disease. Poster presented at: 46th Annual Scientific Meeting of the Australasian Society for Immunology; 2017 November 27-December 1; Brisbane Australia.
Oral	<b>Mallett A, Patel C</b> , McCarthy H, Mallawaarachchi A, Stark Z, Simons C, Quinlan C. Participant choices toward receiving potential incidental genetic findings in an Australian nephrology research genomics study. In: Nephrology 2017;22(S3):. Oral presented at: 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. 4-6 September 2017; Darwin, Australia.
Oral	<b>Mallett A, Patel C</b> , McCarthy H, Mallawaarachchi A, Stark Z, Simons C, Quinlan C. Participant choices toward receiving potential incidental genetic findings in an Australian nephrology research genomics study. Oral presented at: 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. 4-6 September 2017; Darwin, Australia.



TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	McCarthy H, Mallawaarachchi, <b>Patel C</b> , Ho G, Holman K, <b>Mallett A</b> , Bennetts B, Alexander S. Australian Renal Gene Panels: Results from a national diagnostic service. 50th European Society for Paediatric Nephrology. 6-9 September 2017; Glasgow Scotland.
Oral	McCarthy H, Mallawaarachchi, <b>Patel C</b> , Ho G, Holman K, <b>Mallett A</b> , Bennetts B, Alexander S. Australian Renal Gene Panels: Results from a national diagnostic service. 41st Annual Scientific Meeting of the Human Genetics Society of Australasia. 5-8 August 2017; Brisbane, Australia.
Poster	<b>Ng M</b> , Pillai E, Francis L, <b>Mallett AJ</b> . Paraneoplastic IgA Nephropathy and associated FSGS in asymptomatic low volume B-cell Lymphoma. In: Nephrology 2017;22(S3):. Poster presented at: 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. 4-6 September 2017; Darwin, Australia
Poster	Orlandi PF, Shardlow A, Levin A, Ahn C, <b>Healy HG</b> , Oh K-H, Sola L, Nessel LC, Taal MW, Fukagawa M, Fujii N, Djurdjev O, Rios P, Yang W, Hoy WE, Feldman HI. Global variation in rates of ESRD and death amongst the ISN's International Network of CKD Cohort Studies (iNET-CKD). In: Journal of the American Society of Nephrology Supplement 2017;28;790. Poster presented at: Kidney Week American Society of Nephrology; 2017 October 31-November 5; New Orleans, US. (poster SA-PO441).
Poster	<b>Parker N, Austin L</b> . A simple innovative strategy to deliver education to nephrology nurses across multi-site dialysis units. Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Poster	<b>Pham L</b> . Haemodialysis engagement program trial: a holistic approach to improve patient wellbeing. Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	<b>Purtell L</b> . Supportive care for people with end-stage kidney disease. Oral presented at: Centre for Palliative Care Research and Education Conference. 19 May 2017; Brisbane, Australia.
Oral	<b>Purtell L, Berquier I, Douglas C</b> , Hoy WE, <b>Bonner A, Healy H</b> . What a patient wants: A consumer perspective of kidney supportive care. <b>Oral presented at: Royal Brisbane and Women's Hospital Healthcare Symposium. 12-14 September 2017; Brisbane, Australia.</b>
Oral	<b>Purtell L, Berquier I, Douglas C, Taylor B, Kramer K, Heffernan D</b> , Hoy W, <b>Bonner A, Healy H</b> . What a patient wants: A consumer perspective of kidney supportive care. In: Nephrology 2017;22(S3):. Oral presented at: 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. 4-6 September 2017; Darwin, Australia.
Oral	<b>Purtell L, Bonner A, Healy H, Berquier I, Douglas C</b> , Hoy HE. Baseline characteristics of patients in a single-site kidney supportive care program. Oral presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Invited Speaker	<b>Ranganathan D</b> . Management of Resistant Lupus Nephritis. Dr. D.Y.Patil Medical College, Pune, India. – an International Society of Nephrology Go activity
Invited Speaker	<b>Ranganathan D</b> . Approach to Lupus Nephritis. NephKids Conference. 30th July 2017; Chennai, India.
Oral	<b>Rheault H, Bonner A, Coyer F</b> . Health literacy – I just don't get it. <b>Paper presented at: Australian College of Nursing Practitioner Conference. 4-7 September 2017; Brisbane, Australia.</b>
Oral	<b>Scuderi C, Healy H, Douglas C, Berquier I, Taylor B, Kramer K, Bonner A, Purtell L, Heffernan D</b> . The Kidney Supportive Care Program (KSCp)-partnering with patients. Our patients, our care. Mini-oral and poster presented at: 43rd Society of Hospital Pharmacists of Australia. 2017 November 16-19; Sydney Australia.
Poster	<b>Smith D</b> . Trial of low volume APD at home post abdominal hernia repair: One centres' experience. Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Oral	Stone C, Barnes M, Abel J, <b>Bonner A</b> , Douglas C. Nurse practitioner's leading the way with chronic disease management. Paper presented at: Australian College of Nursing National Nursing Forum. 21-23 August 2017; Sydney, Australia.
Oral	<b>Taylor B, Scuderi C, Purtell L, Bonner A, Healy H, Berquier I, Douglas C</b> . Kidney supportive care. <b>Paper presented at: Statewide Renal Clinical Network Forum. 19 May 2017; Brisbane, Australia.</b>

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	Venuthurupalli SK, Hoy WE, <b>Healy HG</b> , Wang Z, Cameron A, Fassett RG. CKD.QLD: Relationship between smoking and chronic kidney disease (CKD) in the Darling Downs Region, Queensland. In: Nephrology 2017;22(S3):7. Poster presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia. (poster)
Oral	Wang Z, Zhang J, Adegbija O, Abeysekera R, <b>Healy HG</b> , Tan KS, Cameron A, Hoy WE. Progression of kidney disease in a cohort of chronic kidney disease (CKD) patients. In: Nephrology 2017;22(S3):32. Oral presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia. (oral)
Oral	Wang X, <b>Kassianos A</b> , <b>Killey K</b> , Potriquet J, Wilkinson R, <b>Healy H</b> . Analysis of apical and basolateral secreted exosomes from human proximal tubule epithelial cells (PTEC) under normal and diseased conditions. In: Nephrology 2017;22(S3):36. Oral presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia. (oral)
Poster	Wilkins E, <b>Mallett A</b> , McCarthy H, Stark Z, White S, Quinlan C. The multidisciplinary paediatric renal genetics clinic: a model for mainstreaming genetics in medicine. In: Nephrology 2017;22(S3):. Oral presented at: 53rd Annual Scientific Meeting of the Australian and New Zealand Society of Nephrology. 4-6 September 2017; Darwin, Australia.
Poster	<b>Williams L</b> . Adapted automated peritoneal dialysis (aAPD): One unit's experience. Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Poster	<b>Williams N</b> , <b>Smith D</b> . Dry day start up regimen for peritoneal dialysis. Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Poster	Wilson A, Brown L, <b>Bonner A</b> . Reflection of research skills gained when delivering OPTIONS to support older chronic kidney disease patients in the real setting. Top 10 Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.
Poster	<b>Wilson GJ</b> , <b>Kark A</b> , Francis L, Hoy WE, <b>Healy HG</b> , <b>Mallett A</b> . Acute interstitial nephritis (AIN) in Australia: a single centre case series. In: Nephrology 2017;22(S3):3. Poster presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia.
Poster	<b>Wilson GJ</b> , <b>Mallett A</b> , <b>Kark A</b> , Tan AK, Cameron A, Wang Z, <b>Healy HG</b> , Hoy WE. Rates and characteristics of acute kidney injury (AKI) in the chronic kidney disease in Queensland (CKD.QLD) Registry. In: Nephrology 2017;22(S3):3. Poster presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia.
Oral	Zhang J, Wang Z, Adegbija O, Abeysekera R, <b>Healy HG</b> , Tan KS, Venuthurupalli SK, Cameron A, Hoy WE. Blood pressure management in hypertensive patients with non-dialysis chronic kidney disease in Queensland, Australia. In: Nephrology 2017;22(S3):49. Oral presented at: 53rd Annual Scientific Meeting Australian and New Zealand Society of Nephrology. September 4-6; Darwin, Australia.
Poster	<b>Zhu X</b> . Heparin free haemodialysis, what is the best practice? Top 10 Poster presented at: 45th Conference of the Renal Society of Australasia. 19-21 June 2017; Sydney, Australia.

## OTHER COMMUNICATIONS AND OUTPUTS:

### AWARD RECIPIENT ADDRESS –

**HEALY H**. Quality Initiatives – 20th Annual ACHS Quality Improvement Awards 2017. The Australian Council on Healthcare Standards. ISBN 978-1-921806-90-2 (Paperback) 978-1-921806091-9 (Web) page 5. Joint 2017 ACHSM/ACHS Asia-Pacific Health Leadership Congress 27-29 September 2017 Sydney Australia

Published in Conference Proceedings - **HEALY H**, Law B, Wang X, **KILDEY K**, Rist MJ, Wilkinson R, **KASSIANOS AJ**. Interleukin (IL)-17 production by tubulointerstitial human  $\gamma/\delta$  T cells in renal fibrosis and chronic kidney disease. In: Journal of the American Society of Nephrology Supplement 2017;28;1015.

Plenary Speaker & Organising Committee – **MALLETT A**, KidGen Renal Genetics Symposium 2017  
Plenary Speaker & Organising Committee – **MALLETT A**, Annual Australian Clinical Genomics Symposium 2017

Plenary Speaker – **MALLETT A**, Australian Genomics Annual Meeting 2017

Plenary Speaker & Panellist – **MALLETT A**, Health Data Analytics Conference (HISA) 2017

Plenary Speaker – **MALLETT A**, ADPKD Symposium 2017

Moderator - **RANGANATHAN D**, Trnka P. Workshop in electrolyte imbalances. Nephkids Conference. 30th July 2017; Chennai, India



# NEUROLOGY/EPILEPSY

The RBWH Epilepsy group has been active in several areas of research in 2017. This includes epilepsy in pregnancy, genetic studies and functional MRI. Our research has included studies of humans and animal models of epilepsy, and promising new treatments including intravenous immunoglobulin and cannabidiol gel.

## SUPERVISED POST-GRADUATE RESEARCH STUDENTS

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	SUPERVISORS (RBWH STAFF IN BOLD)
Javier Urriola	PhD	David Reutens
Ruben Pellicer-Guridi	PhD	David Reutens
Jiasheng Su	PhD	David Reutens
Surabhi Sood	PhD	David Reutens
Sharhzad Bagheri	PhD	David Reutens
Peter Caradonna	PhD	David Reutens
Shaeer Abdulla	PhD	David Reutens
Zahid Kausar	PhD	David Reutens
Zheng Qiao	PhD	David Reutens

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Kimberley Irwin	Research Trial Coordinator	Clinical Trials	
Leanne Rigby	Research Officer	Clinical Trials	
Yvonne Gautam	Research Officer	Drug Registry	
Kathryn Richardson	Research Officer	Imaging studies	
Paul Rees	Epilepsy Fellow	Epilepsy	
Lakshmi Kalbad	Epilepsy Fellow	Epilepsy	
Maryam Ziaei	Post-doctoral Fellow	Neuroimaging	
Reza Bonyadi	Post-doctoral Fellow	Neuroimaging	
Isahaa Aarya	Post-doctoral Fellow	Neuroimaging	
Min Chen	Post-doctoral Fellow	Neuroimaging	
Qiang Yu	Post-doctoral Fellow	Neuroimaging	

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Lata Vadlamudi	<b>Jeffrey Craig</b>	Combining genetic and epigenetic analyses to generate biomarkers for epilepsy in twins and singletons

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Prof T O'Brien (Melbourne Health)	David Reutens	A Phase 2A, Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Multiple-Dose Study to Assess the Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures Synthetic Transdermal Cannabidiol for the Treatment of Epilepsy (STAR 1)
Prof T O'Brien (Melbourne Health)	David Reutens	Open Label Extension Study to ZYN2-CL-03 to Assess the Long Term Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures (STAR 2)
Dr. Eva Pietras (SK Life Sciences)	David Reutens	An Open Label, Multicenter, Safety and Pharmacokinetic Study of YKP3089 as Adjunctive Therapy in Subjects with Partial Onset Seizures
Prof T O'Brien (Melbourne Health)	David Reutens	A double-blind, randomized, placebo-controlled study to investigate the efficacy and safety of cannabidiol (GWP42003-P, CBD) as add-on therapy in patients with tuberous sclerosis complex who experience inadequately-controlled seizures
Prof T O'Brien (Melbourne Health)	David Reutens	A Multicenter, Double-Blind, Randomized, Placebo-Controlled Trial With an Open-Label Extension Phase of Perampanel as Adjunctive Treatment in Subjects at Least 2 years of Age With Inadequately Controlled Seizures Associated With Lennox-Gastaut Syndrome

## 2017 RESEARCH AWARDS

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>David Reutens</b>	ARC Discovery Project DP150104771	"Towards detection of neuronal currents with magnetic resonance imaging"	ARC	\$452,600.	
V Vegh, <b>DC Reutens</b> , M Gray, C Riney, S Malone	NHMRC Project Grant. APP1104933	Novel MRI approaches to map focal cortical dysplasia in focal epilepsy	NHMRC	\$465,489 (2016-2018)	

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>David Reutens</b>	Neurology/ Epilepsy	Training Centre of Innovation in Biomedical Imaging Technology IC170100035	ARC Industrial Transformation	\$948,742	\$4,743,710 (2017-2021)
<b>David Reutens</b>	Neurology/ Epilepsy	“Targeting Complement in post-traumatic epileptogenesis”	US Department of Defence Congressionally Directed Medical Research Programs. EP160027	\$687,170	USD \$545,005.46
<b>Lata Vadlamudi</b>	Neurology/ Epilepsy	Combining genetic and epigenetic analyses to generate biomarkers for epilepsy in twins and singletons	RBWH Research Foundation	\$40,000	2017

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Yu Q, Reutens D, O’Brien K, Vegh V. Tissue microstructure features derived from anomalous diffusion measurements in magnetic resonance imaging. <i>Hum Brain Mapp</i> 2017; 38(2):1068-1081.
Journal Article	Marstaller L, Burianova H, Reutens DC. Adaptive contextualization: A new role for the default mode network in affective learning. <i>Hum Brain Mapp</i> 2017; 38(2):1082-1091.
Journal Article	Martin AK, Dzafoic I, Robinson GA, <b>Reutens D</b> , Mowry B. Mentalizing in schizophrenia: a multivariate functional MRI study. <i>Neuropsychologia</i> 2016; 93(Pt A):158-166.
Journal Article	Chen M, Arumugam TV, Leanage G, Tieng QM, Yadav A, Ullmann JFP, She DT, Truong V, Ruitenber MJ, <b>Reutens DC</b> . Disease-modifying effect of intravenous immunoglobulin in an experimental model of epilepsy. <i>Sci Rep</i> 2017; 7:40528. doi: 10.1038/srep40528.
Journal Article	Bollman S, Robinson SD, O’Brien K, Vegh V, Janke A, Marstaller L, <b>Reutens DC</b> , Barth M. The challenge of bias free coil combination for quantitative susceptibility mapping at ultra-high field. <i>Magn Reson Med</i> (In Press)
Journal Article	Wu T, Groandjean J, Bosshard SC, Rudin M, <b>Reutens D</b> , Jiang T. Altered regional connectivity reflecting effects of different anaesthesia protocols in the mouse brain. <i>NeuroImage</i> (In Press)
Journal Article	Tieng Q, Anbazhagan A, Chen M, <b>Reutens D</b> . Mouse epileptic seizure detection with multiple EEG features and simple thresholding technique. <i>J Neural Engineering</i> (In Press)
Journal Article	Venkatachalam TK, Bernhardt PV, Stimson DHR, Pierens GK, Bhalla R, <b>Reutens DC</b> . A novel strategy to introduce 18F positron emitting radionuclide in gallium nitrate complex. Synthesis, NMR, X-ray crystal structure and preliminary studies on radiolabeling with 18F. <i>Aust J Chem</i> 2017 <a href="https://doi.org/10.1071/CH17334">https://doi.org/10.1071/CH17334</a> .
Journal Article	Burianova, H., Faizo, N. L., Gray, M., Hocking, J., Galloway, G., & <b>Reutens, D.</b> (2017). Altered functional connectivity in mesial temporal lobe epilepsy. <i>Epilepsy Res</i> , 137, 45-52. doi:10.1016/j.epilepsyres.2017.09.001
Journal Article	Pellicer-Guridi, R., Vogel, M. W., <b>Reutens, D. C.</b> , & Vegh, V. (2017). Towards ultimate low frequency air-core magnetometer sensitivity. <i>Sci Rep</i> , 7(1), 2269. doi:10.1038/s41598-017-02099-z

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Pierens, G. K., Venkatachalam, T. K., & <b>Reutens, D. C.</b> (2017). NMR and DFT investigations of structure of colchicine in various solvents including density functional theory calculations. <i>Sci Rep</i> , 7(1), 5605. doi:10.1038/s41598-017-06005-5
Journal Article	Rigg, J., Irwin, K., Tremayne, F., & <b>Reutens, D.</b> (2017). Postural change in convulsive seizures: a retrospective review of video EEG recordings. <i>Intern Med J.</i> doi:10.1111/imj.13573
Journal Article	Watson, C., Janke, A. L., Hamalainen, C., Bagheri, S. M., Paxinos, G., <b>Reutens, D. C.</b> , & Ullmann, J. F. P. (2017). An ontologically consistent MRI-based atlas of the mouse diencephalon. <i>Neuroimage</i> , 157, 275-287. doi:10.1016/j.neuroimage.2017.05.057
Journal Article	Benyamin B, He J, Zhao Q, Gratten J et al. (2017) Cross-ethnic meta-analysis identifies association of the GPX3-TNIP1 locus with amyotrophic lateral sclerosis. <i>Nature Communications</i> . (In Press)
Journal Article	Venkatachalam T, Stimson D, Pierens G, Bhalla R, <b>Reutens D.</b> Challenges in the automated synthesis of [18F]-1-fluoroethyl tryptophan: Formation of both O- and N-alkylated products. <i>Applied Radiation and Isotopes 2017</i> (In Press)
Journal Article	Nguyen HD, Ullmann JFP, McLachlan GJ, Voleti V, Li W, Hillman EMC, <b>Reutens DC</b> , Janke AL. Whole-volume clustering of time series data from zebrafish brain calcium images via mixture modelling. <i>Stat Anal Data Min</i> 2018; 11(1): 5-16.
Journal Article	Gratten J, Zhao Q, Benyamin B, et al. Whole-exome sequencing in amyotrophic lateral sclerosis suggests NEK1 is a risk gene in Chinese. <i>Genome Med</i> 2017 9(1):97. doi: 10.1186/s13073-017-0487-0.
Journal Article	Zhang Y, Burgess R, Malone J, Glubb GC, Helbig KL, <b>Vadlamudi L</b> , et al. Genetic Epilepsy with Febrile Seizures Plus: Refining the spectrum <i>Neurology</i> 2017 89(12):1210-1219.
E Publication	Vajda FJE, O'Brien TJ, Graham JE, Hitchcock AA, Lander CM, <b>Eadie MJ.</b> Predicting epileptic seizure control during pregnancy. <i>Epilepsy Behav.</i> 2018 Jan;78:91-95. Epub 2017 Nov 24.
E Publication	Vajda FJE, O'Brien TJ, Graham J, Hitchcock AA, Lander CM, <b>Eadie MJ.</b> Anti-epileptic drug exposure and risk of foetal death in utero. <i>Acta Neurol Scand.</i> 2018 Jan;137(1):20-23. Epub 2017 Aug 31.
E Publication	Vajda FJ, O'Brien TJ, Graham JE, Hitchcock AA, Lander CM, <b>Eadie MJ.</b> Antiepileptic drugs, foetal malformations and spontaneous abortions. <i>Acta Neurol Scand.</i> 2017 Mar;135(3):360-365. Epub 2016 Aug 29.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral invited	<b>Vadlamudi L</b> , Mohandas N, Hopkins S, Loke J, Mackenzie L, Bennett C, Berkovic S, Craig J. Peripheral epigenetic biomarkers for idiopathic epilepsies: The testament of twins Nov 2017 Epilepsy Society of Australia Annual Scientific Meeting Perth
Oral invited	<b>Vadlamudi L</b> , Mohandas N, Hopkins S, Loke J, Mackenzie L, Bennett C, Berkovic S, Craig J. Peripheral epigenetic biomarkers for idiopathic epilepsies: The testament of twins Dec 2017 American Epilepsy Society Annual Meeting Washington DC, USA

## RESEARCH PUBLICATIONS / PRESENTATIONS SUMMARY TABLE

RESEARCH GROUP / DEPARTMENT	JOURNAL ARTICLES	BOOKS AND CHAPTERS	ORAL	POSTER
Neurology/Epilepsy	21		2	

# NEUROLOGY - MOTOR NEURONE DISEASE RESEARCH GROUP

The Motor Neurone Disease (MND) research team is led by Associate Professor Rob Henderson and Professor Pam McCombe. The team involves University of Qld (UQ), neurologists, scientists, PhD students, a neuropsychologist and research coordinators. The team has links to the University of Sydney and University of NSW and also collaborates with international MND researchers.

MND research includes involvement in clinical pharmaceutical trials, The Neurologists have also provided input into upcoming early phase studies for investigational products aimed to treat Motor Neurone Disease. The research coordinators have been involved in the set-up phase for some of these studies

MND participants are recruited via the bi-monthly MND Clinic or via referral from external Neurologists. A weekly MND Research Clinic is conducted to allow interested patients and families to meet all the researchers and discuss current research projects prior to deciding whether they wish to participate.

Neuropsychological research is conducted by the team neuropsychologist and a PhD student investigating cognitive and behavioural changes in MND patients. Another project investigates the role of metabolism in MND and has found a proportion of patients experience hypermetabolism. The study has expanded to include muscle biopsy, collection and analysis of gut biomes and more extensive dietary history.

There remains a lack of reliable diagnostic and prognostic biomarkers for the disease. Several of the research projects aim to find novel biomarkers for the disease. This includes blood collection sent to UQ laboratories for genetic screening / biomarker studies, MRI sequencing via 7T MRI located at UQ and correlation of median and ulnar nerve conduction testing with a device measuring the pinch strength of the patient, to see if the device could be useful clinically. The group is also investigating the role of novel genetic and epigenetic markers in causing and influencing disease progression.

Research funding from the national Ice Bucket challenge commenced 2016 and is guaranteed over the next 3 years to fund increased research coordinator hours. A new national Motor Neurone Disease database system known as SALSA has been implemented and all new and existing patients participating in research are entered into this database. The team is also involved in regular fund raising events throughout the year including a Golf Day and an MND lunch event. Money for the MND research is held within the Royal Brisbane and Women's Hospital Foundation.

## 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)
<b>Zara Ioannides</b>	Masters, UQ ( 2015-2017)	Energy metabolism and lipid storage in motor neurone disease ( MND)	<b>Robert Henderson, Pam McCombe</b> , Shyuan Ngo, Frederik Steyn
Zhouwei Xu	PhD, UQ (2014-2017)	Cognitive dysfunction in Motor Neurone Disease	Pam McCombe, Robert Henderson, Shyuan Ngo, Frederik Steyn, Aven Lee

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Saman Heshmat	Conjoint Fellow	Clinical research	University of QLD



## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Amelia Ceslis, Amelia	<b>Robert Henderson, PamCombe,</b> Gail Robinson (UQ)	Assessment of cognition and behaviour in Motor neurone Disease in a clinical setting and the impact of education sessions on care giver well-being
<b>Robert Henderson, Pam McCombe</b>	Shyuan Ngo (UQ)	Assessment of biomarkers in Motor Neurone Disease (MND)
Robert Henderson, Pam McCombe	Stephen Rose (UQCCR), <b>Alan Coulthard (DMI)</b>	Measuring disease of upper and lower motor neurones in Amyotrophic Lateral Sclerosis (ALS)
<b>Robert Henderson, Pam McCombe</b>	<b>Saman Heshmat,</b> QPharm (QIMR)	A Phase 1b, Open-Label, Dose-Escalation, Safety and Pharmacokinetic Study of IC14 in Motor Neurone Disease.
<b>Robert Henderson, Pam McCombe</b>	QPharm,	Ici14???
<b>Robert Henderson, Pam McCombe</b>	<b>Saman Heshmat, Britta Hughes (RBWH Physio Dept)</b>	A Randomised, Cross-over Study to Evaluate Efficacy and Tolerability of FLX-787 in patients with Motor Neurone Disease
<b>Robert Henderson, David Wyld</b>	<b>Saman Heshmat,</b> David Goldstein (Lowy Cancer research Centre, University of NSW)	Peripheral Neuropathy in Chemotherapy-treated Patients: Predictors, Assessment strategies and Functional Outcomes
<b>Robert Henderson</b> (feasibility, protocol review, and ethics submission)	<b>Pam McCombe</b>	Phase 2 Randomised Placebo-Controlled Double-Blind Study to Assess the Efficacy and safety of Tecfidera in patients with Amyotrophic Lateral Sclerosis-TEALS Study
<b>Robert Henderson</b> (feasibility, protocol review, and ethics submission)	<b>Pam McCombe</b>	Effects of oral Levosimendan (ODM-109) on Respiratory Function in Patients with ALS
<b>Robert Henderson</b> (feasibility, protocol review, and ethics submission)	<b>Pam McCombe</b>	A Phase2, Randomised, Double-Blind, Placebo Controlled Study of IC14 for Treatment of Patients with Rapidly Progressive Motor Neurone Disease

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Shyuan Ngo(UQ), Frederik Steyn (UQ), Zara Ioannides (UQ)	<b>Rob Henderson, Pam McCombe</b>	Energy metabolism and Lipid storage in Motor Neurone Disease (MND)

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Frederik Steyn	Emerging Leaders in Neurology Research Award, Wesley Medical Research, Wesley Hospital	Wesley Medical Research
Shyuan Ngo	Emerging Leaders in Neurology Research Award, Wesley Medical Research, Wesley Hospital	Wesley Medical Research

## 2017 RESEARCH AWARDS

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Frederik Steyn (UQ), Shyuan Ngo (UQ), Veronique Chachay (UQ)	<b>Rob Henderson</b>	Investigating endocrine causes and consequence of loss of appetite in MND patients	MNDRIA	\$100,000	\$100K (2018)
Frederik Steyn (UQ), Christine Guo (QIMR), Shyuan Ngo (UQ)	<b>Rob Henderson, Pamela McCombe</b>	Endocrine and Appetite Targets and Therapies (EATT) for Motor Neuron Disease (MND): Investigating mechanisms of impaired appetite regulation and weight loss in MND.	Wesley Medical Research Neurology Research Grant/ UQ Faculty of Medicine	\$46500	\$93K (2018-2019)
Frederik Steyn (UQ), LH van den Berg, (UMC, Utrecht), RPA v. Eijk (UMC, Utrecht)	<b>Rob Henderson</b>	Use of Point-of-Care (PoC) testing to improve respiratory management and monitor disease progression in MND: A pilot study	RBWH foundation	\$28000	\$28K (2018)
Shyuan Ngo (UQ), Frederik Steyn (UQ)	<b>Robert Henderson, Pamela McCombe</b>	Assessment of metabolic health in neurodegeneration: studies in motor neurone disease (MND)	Wesley Medical Resesarch	\$95532	\$382,128 (2017-2020)
Shyuan Ngo (UQ), Frederik Steyn (UQ), Jeff Coombes (UQ)	<b>Robert Henderson, Pamela McCombe</b>	Metabolic exploration in neurodegenerative disease (MEND): synergy between derangements in systemic and muscle metabolism in MND	MNDRIA	\$100,000	\$100,000 (2017)

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Fleur Garton (UQ), Shyuan Ngo (UQ), Anjali Henders, Qiongyi Zhao (UQ), Beben Benyamin (UQ), Naomi Wray (UQ), Noah Zaitlen (UCSF), Frederik Steyn (UQ)	<b>Robert Henderson,</b> <b>Pamela McCombe</b>	Cell-free DNA and ALS; insight into disease mechanisms and progression	MNDRIA	\$100,000	\$100,000 (2017)
Shyuan Ngo (UQ)		Investigating the synergy between metabolic balance and the gut microbiome in motor neuron disease (MND)	UQ	\$36,750	\$36,750 (2017)

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Shyuan T Ngo, Jia D Mi, <b>Robert D Henderson,</b> <b>Pamela A McCombe,</b> Frederik J Steyn. Exploring Targets and Therapies for ALS: Current Insights on Dietary Interventions. <i>Degenerative Neurological and Neuromuscular Disease</i> . 25 July 2017 Volume 2017:7 Pages 95–108. doi.org/10.2147/DNND.S120607
Journal article	Zara Amina Ioannides, FJ Steyn, JD Mi, RD <b>Henderson,</b> PA <b>McCombe,</b> ST Ngo. Predictions of resting energy expenditure in ALS are greatly impacted by reductions in fat free mass. <i>Cogent Medicine</i> . 2017 Jul 4(1), 1343000.
Journal article	Zara A Ioannides, Frederik J Steyn, Robert <b>D Henderson,</b> <b>Pamela A McCombe,</b> Shyuan T Ngo. Anthropometric measures are not accurate predictors of fat mass in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> . 2017 Apr 27:1-6.
Journal article	Benyamin, B., He, J., Zhao, Q., Gratton, J., Garton, F., Leo, P., Liu, Z., Mangelsdorf, M., Al-Chalabi, A., Anderson, L., Butler, T., Chen, L., Chen, X-D., Cremin, K., Deng, H-W., Devine, M., Edson, J., Fifita, J., Furlong, S., Han, Y-Y., Harris, J., Henders, A., Jeffree, R., Jin, Z-B., Li, Z., Li, T., Li, M., Lin, Y., Liu, X., Marshall, M., McCann, E., Mowry, B., Ngo, S.T., Pamphlett, R., Ran, S., Reutens, D., Rowe, D.B., Sachdev, P., Shah, S., Song, S., Tan, L-J., Tang, L., van den Berg, L., van Rheenen, W., Veldink, J., Wallace, R., Wheeler, L., Williams, K., Wu, J., Wu, X., Yang, J., Yue, W., Zhang, Z-H., Zhang, D., Blair, I., <b>Henderson, R., McCombe, P.,</b> Noakes, P., Visscher, P.M., Xu, H., Bartlett, P., Brown, M., Wray, N.R., Fan, D. Cross-ethnic meta-analyses identify a new risk locus for amyotrophic lateral sclerosis. <i>Nature Communications</i> . 2017. 8 (1): 611.
Journal article	Alruwaili AR, Pannek K, Coulthard A, <b>Henderson R,</b> Kurniawan ND, <b>McCombe PA.</b> A combined tract-based spatial statistics and voxel-based morphometry study of the first MRI scan after diagnosis of amyotrophic lateral sclerosis with subgroup analysis. <i>J Neuroradiol</i> . 2017 Aug 9. pii: S0150-9861(17)30368-1. doi: 10.1016/j.neurad.2017.03.007. [Epub ahead of print]
Journal article	Garton FC, Benyamin B, Zhao Q, Liu Z, Gratten J, Henders AK, Zhang ZH, Edson J, Furlong S, Morgan S, <b>Heggie S,</b> <b>Thorpe K,</b> Pfluger C, Mather KA, Sachdev PS, McRae AF, Robinson MR, Shah S, Visscher PM, Mangelsdorf M, <b>Henderson RD,</b> Wray NR, <b>McCombe PA.</b> Whole exome sequencing and DNA methylation analysis in a clinical amyotrophic lateral sclerosis cohort. <i>Mol Genet Genomic Med</i> . 2017 Jun 12;5(4):418-428

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Ngo ST, Jia DM, <b>Henderson RD, McCombe PA</b> , Steyn FJ . Exploring Targets and Therapies for Amyotrophic Lateral Sclerosis: Current Insights on Dietary Interventions Degenerative Neurological and Neuromuscular Disease (accepted June 2017).
Journal article	Benyamin B, He J, Zhao Q, Gratten J, Garton F, Leo PJ, Liu Z, Mangelsdorf M, Al-Chalabi A, Anderson L, Butler TJ, Chen L, Chen XD, Cremin K, Deng HW, Devine M, Edson J, Fifita JA, Furlong S, Han YY, Harris J, Henders AK, Jeffree RL, Jin ZB, Li Z, Li T, Li M, Lin Y, Liu X, Marshall M, McCann EP, Mowry BJ, Ngo ST, Pamphlett R, Ran S, Reutens DC, Rowe DB, Sachdev P, Shah S, Song S, Tan LJ, Tang L, van den Berg LH, van Rheenen W, Veldink JH, Wallace RH, Wheeler L, Williams KL, Wu J, Wu X, Yang J, Yue W, Zhang ZH, Zhang D, Noakes PG, Blair IP, <b>Henderson RD, McCombe PA, Visscher PM, Xu H, Bartlett PF, Brown MA, Wray NR, Fan D.</b> Cross-ethnic meta-analysis identifies association of the GPX3-TNIP1 locus with amyotrophic lateral sclerosis. <i>Nat Commun.</i> 2017 Sep 20;8(1):611. doi: 10.1038/s41467-017-00471-1
Journal article	Xu Z. Mass spectrometry analysis of plasma from Amyotrophic lateral sclerosis and control subjects: evidence of widespread physiological change (second review May 2017).
Journal article	Ioannides ZA, Steyn FJ, <b>Henderson RD, McCombe PA</b> , Ngo ST. Anthropometric measures are not accurate predictors of fat mass in ALS. <i>Amyotroph Lateral Scler Frontotemporal Degener.</i> 2017 Apr 27:1-6. doi: 10.1080/21678421.2017.1317811. [Epub ahead of print]
Journal article	Safety and efficacy of ozanezumab in patients with amyotrophic lateral sclerosis: a randomised, double-blind, placebo-controlled, phase 2 trial. <i>Lancet Neurol.</i> 2017 Mar;16(3):208-216
Journal article	Xu Z, Alruwaili ARS, <b>Henderson RD, McCombe PA.</b> Screening for Cognitive and Behavioral Impairment in Amyotrophic Lateral Sclerosis: frequency of abnormality and effect on survival. <i>J Neurol Sci.</i> 2017 May 15;376:16-23
Journal article	Geevasinga N, Menon P, Scherman DB, Simon N, Yiannikas C, <b>Henderson RD, Kiernan MC, Vucic S.</b> Author response: Diagnostic criteria in amyotrophic lateral sclerosis: A multicenter prospective study. <i>Neurology.</i> 2017 Feb 14;88(7):719
Journal article	Hogden A, Foley G, <b>Henderson RD</b> , James N, Aoun SM. Amyotrophic lateral sclerosis: improving care with a multidisciplinary approach. <i>J Multidiscip Healthc.</i> 2017 May 19;10:205-215
Journal article	Peripheral nerve diffusion tensor imaging as a measure of disease progression in ALS. Simon NG, Lagopoulos J, Paling S, Pfluger C, Park SB, Howells J, Gallagher T, Kliot M, <b>Henderson RD, Vucic S, Kiernan MC.</b> <i>J Neurol.</i> 2017 May;264(5):882-890.
Journal article	Dharmadasa T, <b>Henderson RD</b> , Talman PS, Macdonell RA, Mathers S, Schultz DW, Needham M, Zoing M, Vucic S, Kiernan MC. Motor neurone disease: progress and challenges. <i>Med J Aust.</i> 2017 May 1;206(8):357-362.
Journal article	<b>McCombe PA, Henderson RD, Wray N.</b> Extra-motor abnormalities in amyotrophic lateral sclerosis; another layer of heterogeneity. <i>Expert Review of Neurotherapeutics</i> 2017 Jun;17(6):561-577.
Journal article	Aoun SM, Breen LJ, Oliver D, <b>Henderson RD</b> , Edis R, O'Connor M, Howting D, Harris R, Birks C. Family carers' experiences of receiving the news of a diagnosis of Motor Neurone Disease: A national survey. <i>J Neurol Sci.</i> 2017 Jan 15;372:144-151.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Presentation	28th International ALS/MND Symposium. Boston, USA. Steyn, F.J., Ioannides, Z., van Eijk, R.P., van den Berg, L.H., <b>Henderson, R.D., McCombe, P.A.</b> and Ngo, S.T. Hypermetabolism is associated with lower motor neurone burden, functional decline and predicts survival in ALS
Oral Presentation	26th Annual RBWH Healthcare Symposium, Steyn, F.J., Ioannides, Z., van Eijk, R.P., van den Berg, L.H., <b>Henderson, R.D., McCombe, P.A.</b> and Ngo, S.T. Hypermetabolism is associated with lower motor neurone burden, functional decline and predicts survival in ALS

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster Presentation	ANZAN 2017. Goldcoast, Australia. Frederik J Steyn, Restuadi Restuadi, Zara Ioannides, Shyuan T Ngo, Allan McRae, Naomi R Wray, <b>Robert Henderson, Pamela McCombe</b> . Comparison of faecal microbe diversity between motor neurone disease (mnd) and control participants
Poster Presentation	ANZAN 2017. Goldcoast, Australia. Zara A Ioannides, Shyuan T Ngo, <b>Robert D Henderson, Pamela A McCombe</b> , Frederik J Steyn Hypermetabolism in motor neurone disease is associated with a greater functional decline but not weight loss
Poster presentation	ANZAN 2017. Goldcoast, Australia. Zara A Ioannides, Frederik J Steyn, <b>Robert D Henderson, Pamela A McCombe</b> , Shyuan T Ngo. The risk of overestimating fatness in motor neurone disease: longitudinal assessments of body composition



# NEUROLOGY (STROKE)

The RBWH Stroke research group has remained active in 2017, leading and contributing to many studies across several areas in stroke. We have also welcomed Dr Claire Muller to the research team this year.

In the hyperacute phase we continued to work on the value of Quantitative EEG in stroke, partnering with QAS to investigate the role of technology in pre-hospital identification of stroke. We also collaborated with other sites around the nation to investigate better thrombolytic medication to administer to stroke patients in the Emergency department, and better neuroimaging to identify patients to administer these treatments to.

In the recovery phase we started enrolling participants in a study of medication for enhancing recovery in the first few weeks after stroke, collaborating with international investigators. We also continued to enrol in two other international studies of oral anticoagulant medication to prevent stroke recurrence.

Our thanks to the RBWH Foundation for their ongoing support of research at RBWH and within the Stroke team, and for their ongoing organisation and support of the fundraising activities that help finance our research program, especially the Master Stroke Business Luncheon.

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Geoffrey Donnan (The Florey Institute of Neuroscience and Mental Health) Stephen Davis (Royal Melbourne Hospital)	Andrew Wong, Claire Muller	A randomised, multicentre, double blinded, placebo controlled phase 3 trial in ischaemic stroke patients with significant penumbral mismatch at 4.5 – 9 hours post onset of stroke or after ‘wake up’ stroke comparing intravenous tPA with placebo
Mark Parsons (John Hunter Hospital)	Andrew Wong, Claire Muller	A multicentre, prospective, randomised open-label blinded endpoint phase III study in stroke thrombolysis patients to compare tenecteplase and alteplase for an outcome of less disability at three months
Bruce Campbell (Royal Melbourne Hospital) Peter Mitchell (Royal Melbourne Hospital)	Andrew Wong, Claire Muller	A randomized controlled trial of tenecteplase versus alteplase before intra-arterial reperfusion therapy within 4.5 hours of stroke onset utilizing dual target imaging selection
Han-Christoph Diener (Germany)	Andrew Wong, Claire Muller	A multicentre, randomized, double-blind, evaluation in secondary stroke prevention comparing the efficacy and safety of the oral thrombin inhibitor dabigatran etexilate versus acetylsalicylic acid in patients with embolic stroke of undetermined source
Robert Hart (Canada)	Andrew Wong, Claire Muller	A multicentre, randomized, double-blind, double-dummy, active-comparator, event-driven, superiority phase III study of secondary prevention of stroke and prevention of systemic embolism in patients with a recent embolic stroke of undetermined source, comparing rivaroxaban with aspirin

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Schleiger, Emma; <b>Wong, Andrew</b> ; Read, Stephen; <b>Rowland, Tennille</b> ; Finnigan, Simon. Poststroke QEEG informs early prognostication of cognitive impairment. <i>Psychophysiology</i> . 2017;54(2):301-309
Journal article	Cadilhac, Dominique A; Andrew, Nadine E; Lannin, Natasha A; Middleton, Sandy; Levi, Christopher R; et al. Quality of acute care and long-term quality of life and survival: the Australian Stroke Clinical Registry. <i>Stroke</i> [internet] 2017 (cited 2017 Jan 29);48:00-00. DOI: 0.1161/STROKEAHA.116.015714.
Journal article	Cadilhac, Dominique A; Kilkenny, Monique F; Levi, Christopher R; Lannin, Natasha A; Thrift, Amanda G; et al. Risk-adjusted hospital mortality rates for stroke: evidence from the Australian Stroke Clinical Registry (AuSCR). <i>The Medical Journal of Australia</i> . 2017;206(88):345-350
Journal article	Campbell, Bruce CV; Mitchell, Peter J; Churilov, Leonid; Yassi, Nawaf; Kleinig, Timothy J; Yan, Bernard; et al. Tenecteplase versus alteplase before endovascular thrombectomy (EXTEND-IA TNK): A multicenter, randomized, controlled study. <i>International Journal of Stroke</i> . [internet] 2017 (cited Sep 27 2017); DOI <a href="https://doi.org/10.1177/1747493017733935">https://doi.org/10.1177/1747493017733935</a>
Journal article	Campbell, Bruce CV; Mitchell, Peter J; Churilov, Leonid; Keshtkaran, Mahsa; Hong, Keun-Sik; Kleinig, Timothy J; et al. endovascular Thrombectomy for ischemic stroke increases Disability-Free survival, Quality of life, and life expectancy and reduces cost. <i>Frontiers in Neurology</i> . 2017;8:657 doi: 10.3389/fneur.2017.00657

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Wong, A.</b> Queensland clot retrieval implementation. Stroke Society of Australasia ASM 2017
Oral Invited	<b>Muller, C.</b> LAA Closure or Non-Disclosure. Stroke Society of Australasia ASM 2017

# NUCLEAR MEDICINE/SPECIALISED PET SERVICES QLD

The Department of Nuclear Medicine at the Royal Brisbane and Women's Hospital (RBWH) is one of the largest in Australia. It provides a referral, diagnostic and therapeutic nuclear medicine service with four SPECT/CT gamma cameras, one solid state cardiac camera, BMD dual energy X-ray absorptiometry (DEXA) and a pQCT scanner. Research interests in nuclear medicine include image reconstruction methodologies, application of gating and bone mineral densitometry in various disease states.

The department hosts the state-wide Specialised PET Services Queensland, which operates two state-of-the-art PET/CT scanners and a TGA accredited radio laboratory operating a cyclotron. It offers research facilities to a wide variety of investigators. In addition to conventional tracers such as fluorodeoxyglucose ( $^{18}\text{F}$ FDG), the Service also conducts research using  $^{18}\text{F}$ DOPA,  $^{18}\text{F}$ FMISO and  $^{68}\text{Ga}$ -DOTATATE and  $^{68}\text{Ga}$ -PSMA.  $^{68}\text{Ga}$ -Pentixafor is currently being used in animal studies, allowing for the study and research of a greater range of diseases. There is also ongoing research interest in image reconstruction algorithms, respiratory gating and image analysis techniques.

The department also provides a radionuclide therapy service for patients with inoperable neuroendocrine tumours and soon-to-commence treatment for prostate cancer. Whilst predominantly focussed upon clinical service delivery, retrospective analysis of patients previously treated in our state wide NET service aims to more effectively tailor our treatment to patients most likely to benefit and minimise the risk of side effects.

## 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)
Kirstie Caravani	Masters, QUT (FT: 2017)	Micro-dosimetry of $^{177}\text{Lu}$ -PSMA and $^{225}\text{Ac}$ -PSMA radionuclides using Geant4 simulations	<b>Jye Smith</b>
<b>Dominique Scott</b>	MPhil UQ (PT 2017-)	New radiopharmaceutical methodology for PET imaging	<b>Melissa Latter,</b> Kristofer Thurecht

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>Dr Jye Smith</b>	Adjunct lecturer	School of Medicine	UQ (2009-current)
<b>Dr Melissa Latter</b>	Honorary Research Fellow	Faculty of Medicine	UQ (2014-current)



## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
<b>David Pattison</b>	<b>Rahul Ladwa, David Wyld, Matthew Burge,</b> Nicholas Dowson, Stephen Rose, <b>Jye Smith, Stephen Goodman,</b> Steven Williams.	Predictors of dosimetry and response to peptide receptor radionuclide therapy
<b>Paul Thomas, David Pattison</b>	<b>Ashleigh Scott, Glen Kennedy,</b> Siok Tey	Pilot study of 18FGE-180-PET to assess acute gastrointestinal graft versus host disease

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
<b>Melissa Latter</b>	2016 Churchill Fellow	Travelled to UK, Denmark, Germany and Finland from September to November 2017 to undertake fellowship.

## 2017 RESEARCH AWARDS

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Ashleigh Scott, Glen Kennedy, Paul Thomas, David Pattison,</b> Siok Tey	Cancer Care Services Nuclear Medicine	Pilot study of 18FGE-180-PET to assess acute gastrointestinal graft versus host disease	Diamond Care	\$40,000	\$40,000

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	<b>Bartlett ML,</b> Forsythe A, Brady B, Mathews JD. Diagnostic Nuclear Medicine for Paediatric Patients in Australia; Assessing the Individual's Dose Burden. Radiation Protection Dosimetry (2017).
Journal article	Dowson N, Baker C, <b>Thomas P, Smith J,</b> Puttick S, Bell C, Salvado O, Rose S. Federated optimisation of kinetic analysis problems, Medical Image Analysis 35, 116-132, 2017
Journal article	Bell C, Puttick S, Rose S, <b>Smith J, Thomas P</b> & Dowson N. Design and utilisation of protocols to characterise dynamic PET uptake of two tracers using basis pursuit, Physics in Medicine and Biology, Volume 62, Number 12, 2017

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Gillman A, Rose S, <b>Smith J, Thomas P</b> & Dowson N. PET motion correction in context of integrated PET/MR: current techniques, limitations, and future projections. Med. Phys. Accepted Author Manuscript. doi:10.1002/mp.12577
Journal article	<b>Pattison DA</b> , Bozin M, Gorelik A, Hofman MS, Hicks RJ, Skandaraja A. 18F-fluorodeoxyglucose-avid thyroid incidentalomas: the importance of contextual interpretation. Journal of Nuclear Medicine 2017 Oct 12; [Epub ahead of print]
Journal article	Kong G, Grozinsky-Glasberg S, Hofman MS, Callahan J, Meirovitz A, Maimon O, <b>Pattison DA</b> , Gross DJ, Hicks RJ. Efficacy of Peptide Receptor Radionuclide Therapy (PRRT) for Functional Metastatic Paraganglioma and Pheochromocytoma. Journal of Clinical Endocrinology & Metabolism 2017; 102: 3278-3287.
Journal article	<b>Pattison DA</b> , Hicks RJ. Molecular imaging in the investigation of hypoglycaemic syndromes and their management. Endocrine Related Cancer 2017; 24: R203-R221.
Letter	<b>Pattison DA</b> , Hicks RJ. THYROPET study: is biology or technology the issue? Journal of Nuclear Medicine 2017; 58: 354.
Journal article	Kong G, Callahan J, Hofman MS, <b>Pattison DA</b> , Akhurst T, Michael M, Eu P, Hicks RJ. High clinical and morphologic response using 90Y-DOTA-octreotate sequenced with 177Lu-DOTA-octreotate induction peptide receptor chemoradionuclide therapy (PRCRT) for bulky neuroendocrine tumours. European Journal of Nuclear Medicine and Molecular Imaging 2017; 44: 476-489.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	<b>Latter MJ, Tapper S, Scott D, Tai C, Ergenekon A, Lummis S</b> . Optimising Manufacture of 68GaRadiopharmaceuticals: Experience from a Clinical PET Service. RACI National Centenary Conference, 2017.
Oral	<b>Tai C</b> , Taylor S, <b>Tapper S, McRobbie G, Dalsgaard G, Grigg J</b> . <b>Development and Process Validation of [18F]GE-216 on FASTlab™ Synthesizer; A Radiotracer for Imaging Tau Pathology.</b> RACI National Centenary Conference, 2017.
Poster	<b>Lummis S, Tapper S</b> , Taylor S, <b>Latter MJ</b> . Validation of [18F]-GE180 for Clinical PET Studies of Neuroinflammation. RACI National Centenary Conference, 2017.
Oral	<b>Tai C</b> , Taylor S, <b>Tapper S</b> , McRobbie G, Dalsgaard G, Grigg J. Development and Process Validation of [18F]GE-216 on FASTlab™ Synthesizer; A Radiotracer for Imaging Tau Pathology. 47th Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, 2017.
Poster	<b>Lummis S, Tapper S</b> , Taylor S, <b>Latter MJ</b> , Validation of [18F]-GE180 for Clinical PET Studies of Neuroinflammation. 47th Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, 2017.
Oral Invited	<b>Pattison DA</b> . Lu-PSMA & Theranostics in metastatic castrate resistant prostate cancer (CRPC). Brisbane Cancer Conference 2017. Brisbane, Queensland.
Oral Invited	<b>Pattison DA</b> . Imaging strategies for known and suspected MEN1 in adolescents. Australian Paediatric Endocrine Group Annual Scientific Meeting 2017, Hobart, Tasmania.
Oral Invited	<b>Pattison DA</b> . PET-positive thyroid lesions. 7th Multidisciplinary Update on Thyroid & Parathyroid Surgery 2017, Noosa, Queensland.
Oral Invited	<b>Pattison DA</b> . Theranostics: expanding evidence base for radionuclide therapy. Australian Society for Medical Imaging and Radiation Therapy (ASMIRT) Sunshine Coast Weekend Seminar 2017, Caloundra, Queensland.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Pattison DA.</b> Navigating the New Landscape of Managing Radioiodine Refractory Differentiated Thyroid Cancer. Breakfast symposium: Endocrine Society of Australia Annual Scientific Meeting 2017; Perth, Western Australia.
Oral Invited	<b>Pattison DA.</b> Insulinoma: Finding the Needle in the haystack with PET. Australian Cancer Research Foundation (ACRF) Herston Imaging Research Facility (HIRF) Oncology Symposium 2017, Brisbane, Queensland.
Oral	Macfarlane L, <b>Pattison DA.</b> Using a formula based on BMI and BSL for administration of actrapid for FDG-PET scans where the patient's BSL is elevated on arrival. 47th Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, 2017, Hobart, Tasmania.
Oral Invited	<b>Pattison DA.</b> Theranostics for NETs and thyroid cancer. Queensland Branch Meeting of Australia & New Zealand Society of Nuclear Medicine, 2017, Brisbane, Queensland.
Oral	Kong G, Grozinsky-Glasberg S, Callahan J, Hofman MS, Meirovitz A, Maimon O, <b>Pattison DA,</b> Gross DJ, Hicks RJ. 177Lu-DOTA-OCTREOTATE Peptide Receptor Radionuclide Therapy (PRRT) in patients with functional and metastatic Pheochromocytoma (PCC) or Paraganglioma (PGL). Australian & New Zealand Society of Nuclear Medicine Annual Scientific Meeting 2017
Poster	Hong A, Graf A, Lee M, Jayawardene D, <b>Pattison DA,</b> MacIsaac RJ, Sachithanandan N. Two cases of adrenocortical carcinoma. Endocrine Society of Australia Annual Scientific Meeting 2017, Perth, Western Australia.
Poster	Kong G, Grozinsky-Glasberg S, Callahan J, Hofman MS, Meirovitz A, Maimon O, <b>Pattison DA,</b> Gross DJ, Hicks RJ. Peptide Receptor Radionuclide Therapy for treatment of functional and metastatic Pheochromocytoma and Paraganglioma. European Neuroendocrine Tumour (ENETS) Conference 2017, Barcelona, Spain.
Poster	<b>Robinson, B.</b> Improving Staff Morale: A Prospective Study of Employee Job Satisfaction Within a Nuclear Medicine Department. Australian and New Zealand Society of Nuclear Medicine Conference, 2017, Hobart, Tasmania.

# PALLIATIVE AND SUPPORTIVE CARE

Recipient of the in recognition of the establishment of the MN Kidney Supportive Care program, collaboration between MN Kidney Services and the RBWH Palliative and Supportive Care Service. The implementation sought evidence through an AusHSI Grant leading to the evidence of improved health outcomes with the service.

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Choosing Wisely	<b>Emily D’Arcy, Neil Cottrell, Alison Kearney, Melissa Eastgate, Katherine Bettington</b>	Investigating patient’s perceptions towards medicine burden in palliative oncology patients

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
David Currow , Palliative Care Clinical Studies Collaborative	Alison Kearney Carol Douglas	Rapid Pharmacovigilance in Palliative Care
	Louise Purtell, Marcin Sowa, <b>Ilse Berquier, Carla Scuderi, Carol Douglas, Bernadette Taylor, Katrina Kramer, Wendy Hoy, Helen Healy, Ann Bonner<sup>1</sup></b>	The Kidney Supportive Care program: Baseline results from a new model of care for advanced chronic kidney disease

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Kidney Supportive Care Service Metro North HHS	<b>2017 MNHHS Research Excellence Award for Health Services and Implementation</b>	2017 Metro North HHS Research Excellence Awards
Kidney Supportive Care Service Metro North HHS		2017 ACHS National Clinical Excellence Award

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	Jeon YS, <b>Kearney AM</b> , Baker PG. Management of hiccups in palliative care patients. BMJ Supportive and Palliative Care 2017 ;0:1-6.doi:10.1136

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	<b>Douglas C.</b> Hepatology Supportive Care 2017 Australia New Zealand Society Palliative Medicine Medical and Surgical Update meeting . Melbourne
Oral	<b>Douglas C.</b> Inpatients nearing the end of life: a point prevalence Study. Palliative Care Australia Conference 2017. Adelaide SA
Oral	<b>Douglas C,</b> Saul P. Having the difficult conversation. Australian Perioperative Meeting/ANZCA 2017. Sydney
Oral	<b>Douglas C.</b> “Symptom Management in Neurodegenerative Disease. IAPCON (International Indian Palliative Care Association 2017, Coimbatore India
Oral	<b>Douglas C.</b> Inpatients nearing the end of life: a point prevalence study. International Collaborative Best Care of the Dying -Care Compassion and Clinical Excellence, 2017.Liverpool, UK.
Oral	<b>Douglas C.</b> Improving life for patients with end stage kidney disease Palliative Care Australia Conference 2017. Adelaide SA

# PHARMACY

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## About this service:

The pharmacy Department at RBWH works collaboratively with medical, nursing and allied health colleagues to provide safe, effective, economic and high quality evidence based medication management to patients at RBWH and as part of the wider hospital and health service. A clinical and support service is provided to all patients of RBWH 7 days a week. Research and the continual evaluation of the pharmacy service and wider health care service is a corner stone of the department's strategy to drive continual quality improvement in medicines management. Participation in research is expected and supported by all senior staff and junior staff are encouraged and supported to initiate quality improvement activities and develop research skills.

## Highlights of 2017:

Research has focussed on evaluation of pharmacy practice (evaluation of the impact of pharmacist input to medical ward rounds on quality use of medicines and medicine use in palliative care, outpatient antibiotic therapy and pharmacist prescribing in surgical pre-assessment clinics and development of advanced practitioners) pharmacokinetics and pharmaco-metrics (in particular anticoagulants and antimicrobial therapy) and drug use in maternity, neonatology and paediatrics.

Karen Whitfield for her work with obstetric medicine and Carla Scuderi for her work with Chronic Kidney Disease team won research awards as part of their respective multidisciplinary research teams at Metro North Hospital and Health Service Research awards 2017.

The department facilitates and chairs a monthly research collaborative meeting, between all pharmacy departments in Metro North and representatives from the University of Queensland and Queensland University of Technology. This is to encourage the pitching of research ideas at all levels, and promoted as a forum where novice and experienced researchers alike can gain advice and academic support from experts in their area of potential research.

Conjoint research positions have continued with School of Pharmacy University of Queensland (SOP UQ) (1 x 0.2 FTE funded by SOP UQ), held by Dr Karen Whitfield. As in previous years the pharmacy department to be well represented at the federal hospital pharmacy conference in November, with the target to reach of 21 papers presented orally or as posters in 2015. International collaboration has been extensive in particular from Prof Jason Roberts work with ICU, Burns and critical care team. Similarly 5 staff have adjunct research positions with UQ and three with QUT.

A/Prof Neil Cottrell has been formally made an honorary Senior Research Fellow across all MNHHS pharmacy Sites

Our research activities help improve patient outcomes by focusing on the design of pharmacy services; implementation of evidence based practitioner development programs. The work of Prof Roberts' team results in leading edge antimicrobial therapy in critical care patients and other challenging patient populations. His NHMRC-funded Centre for Research Excellence based out of the Herston Campus continues to lead many projects with international collaborators with over 30 such papers in 2017 alone. Funding for this group has also been strong, with Prof Roberts second named investigator on a \$3.2 million NHMRC Project Grant that commenced in 2017.

It is hoped during 2018 that a Centre for Safe and Effective Medicines Management Research will be created jointly between University of Queensland and Metro North Hospital and health Service with a Professor and Assoc. Professor of Pharmacy.

## 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)
<b>Nicola Harper</b>	PhD, UQ (2015 – present)	A pre and post study to evaluate the impact of an Automated Medication Distribution System (AMDS) on medication administration in the RBWH Emergency Department.	<b>Danielle Stowasser</b> , Neil Cottrell, <b>Ian Coombes</b> , Jessica Suna
<b>William Franks</b>	Masters (2017 – present) – upgrade to PhD post confirmation	Optimisation of antifungals and antivirals in lung transplant recipients	<b>Jason Roberts</b> , Menino Cotta, Mohd-Hafiz Abdul-Aziz
<b>Kelly Mulvogue</b>	Masters of Philosophy, UQ (2012-2017)	Improving the quality of prescribing in elderly hospital inpatients: evaluating the effect of a clinical pharmacist on ward rounds.	Alesha Smith, <b>Ian Coombes</b> , <b>Jason Roberts</b> , Neil Cottrell, <b>Shanthi Kanagarajah</b>
<b>Carla Scuderi</b>	PhD	Patient focused medication outcomes in Kidney transplant patients (working title)	<b>Dr Helen Healy</b> , A/Prof Christine Staatz
<b>Kate Murphy</b>	MPhil , Griffith University (2014-2018)	Clozapine and concomitant medications: Setting the record straight	<b>Ian Coombes</b> , Amanda Wheeler
Daniel Bermingham	Master of Clinical Pharmacy	Clinical placement with Kidney Health Service	<b>Carla Scuderi</b>
Ms Nur Abu Kassim	PhD UQ (2015-2017)	To investigate vitamin D and vitamin D analogues levels in human plasma	<b>Dr Karen Whitfield</b> , Professor N Shaw, Dr A Hewavitharana
<b>Karen Davies</b>	PhD, UQ (2015 – present)	Development and validation of a nurse medication administration performance evaluation and feedback tool.	Ian Coombes, Karen Whitfield
<b>Ms Angela North</b>	MPhil (2015-2018)	Investigation of Therapeutic Heparin in the peri partum period	<b>Dr Karen Whitfield</b> , <b>Dr K Lust</b> , Dr H Barrett
Sahra Ashley	MPhil (2015-2018)	Health economic analysis of Outpatient antimicrobial services at a quaternary hospital	<b>Dr Karen Whitfield</b>
Paul Firman	MPhil (2017-2019)	Pharmacist Led Therapeutic Drug Monitoring	<b>Dr Karen Whitfield</b> , Dr K Tan
Kathryn Hurree	MPhil (2018-2020)	Investigation of Impact of a pharmacist in palliative Care Clinics	<b>Dr Karen Whitfield</b> , <b>Dr A Carney</b>
Ms Bonnie Tai	PhD (2018-2021)	Leadership within Hospital Pharmacy	<b>Dr Karen Whitfield</b> , <b>Dr I Coombes</b>
Dr Danny Tsai	PhD UQ 2017	Improving antibiotic dosing in critically ill Australian Indigenous patients with severe sepsis	<b>Jason Roberts</b>
Brooke Myers	PhD, UQ	A study to investigate and evaluate the impact of a clinical pharmacist on the safety and quality of the prescribing on a post take ward round.	<b>I. Coombes</b> , <b>P Donovan</b> , C Mitchell, J Whitty
<b>Caitlin Lock</b>	Masters of Philosophy, QUT (2017-present)	Evaluation of the impact and change processes associated with emergency department pharmacy service	<b>Ian Coombes</b> , <b>Neil Cottrell</b>
Tavey Dorofaeff	PhD, UQ	How to use antibiotics better in Paediatric Intensive Care using pharmacokinetic principles	<b>Jeffrey Lipman</b> , <b>Jason Roberts</b> , Mark Coulthard
Caleb Economou	PhD, UQ	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy	<b>Jason Roberts</b> , <b>Jeffrey Lipman</b> , B. Richards

NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Yarmarly Guerra Valero	PhD, UQ	Translating microsampling techniques into better antibiotic dosing for critically ill children	<b>Jason Roberts</b>
Nilesh Kumta	MPhil UQ	Optimising antibiotic dosing for the treatment and prevention of central nervous system infections	<b>Jeffrey Lipman, Jason Roberts</b>
<b>Jayesh Dhanani</b>	PhD, UQ	Study of disposition of inhaled antibiotics	<b>Jason Roberts, J. Fraser</b>
Rochelle Ryan	MPhil, UQ	Perioperative cefazolin pharmacokinetics in obesity.	<b>Jason Roberts, A van Zundert, Jeffrey Lipman, K Wyssusek</b>
Eko Setiawan	PhD, UQ	Pharmacokinetics of antimicrobials in hospitalised Indonesian patients	<b>Jason Roberts, MO Cotta, Jeffrey Lipman</b>
Lisa Wang	MPhil, UQ	Plasma and tissue pharmacokinetics of lincomycin in patients with burn wound infection	M Muller, <b>Jason Roberts, Jeffrey Lipman</b>
Paul Williams	MPhil, UQ	Validation of antibiotics dosing guidelines in critically ill patients	<b>Jason Roberts, MO Cotta</b>
Gloria Wong	PhD, UQ	A pharmacokinetic-pharmacodynamic evaluation of beta-lactam antibiotics TDM-guided dose adjustment in critically ill patients	<b>Jason Roberts, Jeffrey Lipman</b>
Andrew Burke	MPhil, UQ	A study of the pharmacokinetic properties of mycobacterial antibiotics in cystic fibrosis	<b>Jason Roberts, RM Thomson, S Bell, DJ Smith</b>
Vesa Cheng	MPhil, UQ	Dose optimisation of anti-infective drugs in extracorporeal membrane oxygenation (ECMO)	<b>Jason Roberts</b>
Andy Lo	MPhil, UQ	Documenting pharmacy clinical interventions using portable devices and adaptation of a published medication error model to an Australian tertiary centre	<b>Jason Roberts, JA Coombes, A Hale, PI Pillans</b>
Saiyuri Naicker	PhD, UQ	The microbiological effects of antimicrobial de-escalation: An in-vitro evaluation in a dynamic infection model	<b>Jason Roberts, F Sime</b>
Chandra Sumi	PhD, UQ	Optimization of alternative antibiotic dosing regimens for maximal antibacterial activity and suppression of emergence of resistance	<b>Jason Roberts, F Sime</b>
Christopher Anstey	PhD UQ	Extramitochondrial metabolism of citrate metabolism in the critically ill	B Venkatesh, <b>Jason Roberts</b>
Jason Waddell	PhD, QUT	An Investigation in to the Personality Characteristics of Australian Pharmacists : How to Develop Leadership and Practice Changing Skills	Lisa Nissen, Greg Kyle, <b>Andrew Hale</b>
Claire Hosie	MPhil, potential to upgrade to PhD, UQ	Validation of a risk rating tool on discharge for patients at high risk of medication misadventure and readmission	Neil Cottrell, <b>Andrew Hale</b>
Monika Ogilvie	MPhil, QUT	To evaluate the effect of a collaborative doctor-pharmacist prescribing model compared to the usual medical prescribing model in the Emergency Department	Lisa Nissen, Greg Kyle, <b>Andrew Hale</b>



NAME (RBWH STAFF IN BOLD)	CURRENT STUDIES (E.G. PHD, MASTERS ETC.) UNIVERSITY (DURATION)	RESEARCH PROJECT TITLE	SUPERVISORS (RBWH STAFF IN BOLD)
Penelope Richards	MPhil, QUT	A comparison between Doctor- Pharmacist collaborative and usual Medical model for perioperative prescribing of medications in an Anaesthetic lead pre-admission clinic.	Lisa Nissen, Greg Kyle, <b>Andrew Hale</b>
Karen Bettenay	PhD, QUT	Evaluation of allied health prescribing in Queensland and development of prescribing implementation and evaluation frameworks	Lisa Nissen, Greg Kyle, <b>Andrew Hale</b>

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
<b>Ian Coombes</b>	Adj Assoc Professor	School of Pharmacy	UQ 2011 - present
<b>Ian Coombes</b>	Adj Assoc Professor	School of Pharmacy	QUT 2016 - present
<b>Andrew Hale</b>	Adjunct Senior Lecturer	School of Pharmacy	UQ 2008 - present
<b>Andrew Hale</b>	Adjunct Associate Professor	School of Pharmacy	QUT 2017 - present
<b>Jason Roberts</b>	Professor NHMRC Practitioner Fellow	School of Pharmacy & Faculty of Medicine	University of Queensland (2009-current)
<b>Karen Whitfield</b>	Adj Senior Lecturer	School of Pharmacy	UQ
<b>Gemma Woodruff</b>	Conjoint Associate Lecturer	School of Pharmacy	2015-present
<b>Carla Scuderi</b>	Post Graduate Clinical Pharmacy Program – Course Coordinator	PHRM 7040 Pharmacy in the modern world	University of Qld (2015-current)

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Angela North</b>	Angela North, Karen Whitfield, Karin Lust, Helen Barrett	Therapeutic unfractionated heparin during the peripartum period.
<b>Julie Withers, Rolene Coetzee</b>	<b>Hui Shin Choon (QUM student)</b>	Assessing the feasibility of pharmacist attendance on Post-Take Ward Rounds in Internal Medicine at the RBWH
<b>Jared Zipf</b>	Adriana Zukiwskyj (Qum student)	Evaluation of medication information included in Discharge Medication Records for Internal Medicine, RBWH
<b>Nicola Harper</b>	Danielle Stowasser, Ian Coombes, Neil Cottrell, Jessica Suna, Tracey Hawkins	A pre and post study to evaluate the impact on an Automated Medication Distribution System (AMDS) on medication administration in the RBWH Emergency Department.
<b>Nicola Harper</b>	Danielle Stowasser, Jane Hogan	Impact of a Medication Dispensing and Distribution Robot (MDDR) on dispensing errors at the RBWH Pharmacy.

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Nicola Harper</b>	Danielle Stowasser, Jane Hogan, Natasha Truloff, Peter Quan	A before and after time-and-motion of the impacts of Electronic Medication Management (EMM) systems on workflow at two Queensland hospitals.
<b>Nicola Harper &amp; Peter Donovan</b>	Danielle Stowasser, Ian Coombes, Natasha Truloff, Timothy Dunn, Anita Pelecanos, Charles Denaro, Katharine Dekker	Evaluation of the implementation of electronic prescribing using interrupted time-series analysis at two Queensland hospitals
<b>Nicola Harper</b>	Danielle Stowasser, Natasha Truloff	A before-and-after evaluation of the impact of an Electronic Prescribing and Medication Administration (EPMA) system on medication administration at two Queensland hospitals.
<b>Nicola Harper</b>	Li Qi Ho (UQ, QUM Student)	Pharmacy Robotics: How will it affect access to medications at RBWH?
<b>Nicola Harper</b>		How long does discharge medication management take? A baseline study prior to Electronic Medications Management (EMM) implementation at the Royal Brisbane and Women's Hospital (RBWH)
<b>Nicola Harper</b>		Imprest supply time-and-motion for the RBWH Emergency Department: a baseline study prior to Automated Medication Distribution Systems (AMDS)
<b>Nicola Harper</b>	Danielle Stowasser	Imprest time and motion: before and after implementation of a Medication Dispensing and Distribution Robot (MDDR)
<b>Serena Rofail, Lyndsay Steel &amp; Jesseca Eglington</b>	<b>Kevin Rogers (CCU NUM), Dr John Atherton, Dr Chris Hammett</b>	Earlier discharge planning in CCU following Cath Lab procedure
<b>Serena Rofail, Lyndsay Steel, Jesseca Eglington &amp; Andy Hale</b>	<b>Stephanie McKellar, Lisa Allard</b>	Trial of staggering pharmacist shifts on CCU to improve pharmacist workflow
<b>Lyndsay Steel, Champika Patullo</b>	<b>Ian Coombes, Andrew Hale, Peter Donovan, Glen Kennedy, Alison Mudge, Michael Barras, Bonnie Tai</b>	Collaborative Optimisation of Anticoagulation Study: COAG
<b>Lyndsay Steel</b>	<b>Madeline Parnell, Neil Cottrell, Michael Barras</b>	Investigating patients' knowledge about their anticoagulant medication – cross site with PAH
<b>William Franks</b>	<b>Julian Williams</b>	Assessment of pharmacist impact on AMS in the ETC, a pre and post intervention analysis
<b>William Franks</b>	Abiodun Bolarinwa	Assessment of antimicrobial prescribing in a correction facility
<b>Carla Scuderi/ Kidney Health Service</b>	<b>Danielle Ironside, Michelle Rice, Jared Zipf, Carla Dawson, Melynda Flor, Dr Adrian Kark, Dr Neil Cottrell</b>	Supporting adherence in patients with chronic kidney disease through a pharmacist led targeted medication management plan
Kidney Health Service- Lesley Williams	<b>Pauline Nicholls, Dwarka Ranganathan, Carla Scuderi, Michelle Rice, Deborah Smith, Nicola Williams</b>	A feasibility study into the use of acetic acid at exit site versus mupirocin to prevent exit site infections in peritoneal dialysis patients. ACES study.
<b>Os Cotta</b>	<b>Jason Roberts/ Jeffrey Lipman</b>	Benzylpenicillin HREC/15/QRBW/31 Optimising benzylpenicillin dosing for critically ill patients with severe pneumonia
Jeffrey Lipman/Joel Dulhunty/Jason Roberts/O Cotta	<b>Jeffrey Lipman/ Marianne Kirrane</b>	BLING III A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients
<b>Os Cotta/ Jason Roberts</b>	<b>Jeffrey Lipman/ Jayesh Dhanani</b>	Ceftriaxone HREC/16/QRBW/101 Optimising ceftriaxone dosing for critically ill patients with severe pneumonia

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
<b>Jason Roberts</b>	<b>Jeffrey Lipman</b>	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.
<b>Jason Roberts</b>	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”
<b>Suzanne Parker</b>	<b>Jeffrey Lipman Jason Roberts Steven Wallis</b>	Micro sampling <b>HREC/15/QRBW/249</b> Validation of Microsampling versus Traditional Blood Sampling for Antibiotic Pharmacokinetics.
<b>Nilesh Kumta/ Jason Roberts</b>	<b>Jeffrey Lipman</b>	OASES EVD sampling for antibiotics <b>HREC/16/QRBW/157</b> The Pharmacokinetics of Ceftriaxone, Meropenem, Piperacillin-Tazobactam and Vancomycin in the Cerebrospinal Fluid of Critically Ill Patients with Uninflamed Meninges
<b>Jason Roberts</b>	<b>Jeffrey Lipman</b>	Posaconazole (HREC/16/QRBW/377) Single dose population pharmacokinetics of intravenous posaconazole in critically ill patients
<b>Jason Roberts</b>	<b>Jeffrey Lipman</b>	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

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Dr Louise Cullen, Dept Emergency and Trauma	<b>Peter Donovan, Ian Coombes, Liz Doran, Neil Cottrell</b>	Evaluation of the incidence of adverse drug events causing admission to hospital
Andrew Udy / <b>Jason Roberts</b>	<b>Jeffrey Lipman / Jason Roberts</b>	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	<b>Jason Roberts</b>	AMIINO III HREC/16/QRBW/205 An international survey on aminoglycoside practices in critically ill patients: AMINO III survey
ESCIMD	<b>Os Cotta/ Cheryl Fourie / Jason Roberts</b>	Determinants of Antimicrobial use and de-escalation in critical care (DIANA study)

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Kidney Supportive Care Program- <b>Carla Scuderi, Ilse Beriquer, Carol Douglas, Danielle Heffernan, Helen Healy, Anne Bonner, Louise Purtell, Marcain Sowa</b>	Health Services and Implementation Award,	Metro North Hospital and Health Service Research Excellence Awards 2017
<b>Carla Scuderi,</b> Judith Burrows, Dr Treasure Maguire, a/Prof Alexandra Clavarino, Dr Adam Lacaze, Dr Karen Luetsch, Vanessa King	Commendations for programs that enhance learning	Teaching and Learning Awards 2017. University of Qld

## 2017 RESEARCH GRANTS - AWARDED

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Carla Scuderi</b>	Kidney Health Service/ Pharmacy Department	Validating microsampling devices in kidney transplant patients	RBWH Foundation	\$40,000	1
<b>Dr Karen Whitfield, Dr I Coombes, Ms K Davies</b>	Pharmacy	Neonatal Medication Safety across the Continuum of Care	Sanofi Pamela Nieman Continuum Of Care Grant – SHPA	\$10,000	\$10,000
<b>Graham Radford Smith, Ian Coombes, Amy Legg</b>	Gastroenterology and Pharmacy	Evaluation of a therapeutic Drug Monitoring Service for Inflammatory Bowel Disease patients	SEED	\$45,000	1 year
<b>Kerstin Wyssussek, Andrew Hale, Sue Cadigan</b>	Anaesthetics, Division of Surgery and Pharmacy	IMPACT – optimisation of perioperative blood management prior to surgery	SEED	\$25,000	1 year
<b>Claire Hosie, Andrew Hale, Neil Cottrell, Peter Donovan</b>	Pharmacy and Clinical Pharmacology	Evaluation of a referral tool for patients at high risk of medication misadventure on discharge	RBWH Foundation	\$37,000	1 year

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
Michael Barras, Peter Donovan, Graham Kennedy, Charles Denaro <b>Ian Coombes</b>	Medicine, clinical pharmacology, haematology, pharmacy	Validation of a therapeutic range for enoxaparin in renal patients (TRENEX)	RBWH Foundation Grant	\$40,000	1 year
Barras M, Donovan P, Mudge A, Kennedy G, Coombes I	Pharmacy, pharmacology, haematology, Internal medicine	Collaborative optimisation of Anticoagulation Study (COAG)	SEED	\$85,000	1 year
Nilesh Kumta, <b>Jason Roberts, Jeffrey Lipman</b>	RBWH Intensive Care Services, Pharmacy	OACES	Intensive Care Foundation	\$35,000	1 year
<b>Jeffrey Lipman, Jason Roberts, Joel Dulhunty</b>	RBWH Intensive Care Services, Pharmacy	BLING III	NHMRC	\$3.2 M	5 years
Liu D, <b>Roberts J</b>	RBWH Intensive Care Services, Pharmacy	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	2 years
Kumta N, <b>Fourie C, Lipman J, }Roberts J,</b> Cotta MO	RBWH Intensive Care Services, Pharmacy	Optimising antibiotic CSF exposures for the treatment of central nervous system infections	RBWH & RBWH Foundation	\$5000	1 year
Kumta N, <b>Lipman J, Roberts J,</b> Joynt G, Wong W-T, Cotta MO	RBWH Intensive Care Services, Pharmacy	Optimising Antibiotic CSF Exposures for the Treatment of Central Nervous Sytem Infections	Intensive Care Foundation	\$35,000	1 year
<b>Roberts J,</b> Parker S, Dorofaeff T	RBWH Intensive Care Services, Pharmacy	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	2 years
<b>Cohen J,</b> Liu D, <b>Roberts J, Livermore A,</b> Reza N, Udy A.	RBWH Intensive Care Services, Pharmacy	Plasma nicotine concentrations in critically ill patients receiving transdermal nicotine replacement therapy (nrt)	Intensive Care Foundation	\$40,000	1 year
Scuderi C, John G, Parker S, Healy H, Staatz C, <b>Roberts J</b>	RBWH Intensive Care Services, Pharmacy	Innovative blood sampling to reduce the burden of long-term treatment for kidney transplant recipients	RBWH & RBWH Foundation	\$40,000	1 year
<b>Roberts J</b>	RBWH Intensive Care Services, Pharmacy	Assay development for therapeutic drug monitoring of ceftolozane-tazobactam	Merck, Sharpe & Dohme	\$12,100	2 years

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Roberts J</b>	RBWH Intensive Care Services, Pharmacy	Lipopeptide antibiotics for XDR Gram-negative infections	Blaskovich M, Cooper M, Hansford K, Roberts JA, Paterson DL	\$994,897.15	3 years
Paterson D, <b>Roberts J</b> , <b>Lipman J</b> , Harris P, Whiley D, Beatson S, Schembri M	RBWH Intensive Care Services, Pharmacy	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	2 years
Eisen D, McEwen P, <b>Roberts J</b> , Wallis S, Mulvey P	RBWH Intensive Care Services, Pharmacy	Measuring aspirin penetration into synovial fluid to assess its potential for prevention of prosthetic joint infection	Townsville Hospital and Health Service	\$39,450	1 year

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Eyre, BLKD, Eadie, MJ, van Driel, ML, <b>Ross-Lee, L</b> , Hollingworth, SA. Triptan use in Australia 1997-2015: A pharmacoepidemiological study. Acta Neurol Scand, (2017) 00:1-5
Journal article	<b>Legg A</b> , Barras M, Drug dosing in obesity. Aust Prescr (2017) 40:189-93
Journal article	<b>Mulvogue K, Roberts JA, Coombes I</b> , Cottrell N, <b>Kanagarajah S</b> , Smith A. The effect of pharmacists on ward rounds measured by the STOPP/START tool in a specialized geriatric unit. Journal of Clinical Pharmacy and Therapeutics, 42 (2): 178-184.
Journal article	<b>Murphy K, Coombes I, Moudgil V, Patterson S</b> , Wheeler AJ. Clozapine and concomitant medications: Assessing the completeness and accuracy of medication records for people prescribed clozapine under shared care arrangements. J Eval Clin Pract. 2017 Dec;23(6):1164-1172.doi: 10.1111/jep.12743. Epub 2017 May 4
Journal editorial	<b>Whitfield K</b> (2017) The Emerging Role of the Women's and Newborns Pharmacist. JPPR Editorial (in press)
Journal article	North A, Lust K, Barrett H, <b>Whitfield K</b> Therapeutic heparin during the peri partum period – challenges associated with safe use. (2017) JPPR (in press)
Journal article	<b>Paradissis, C., Coombes, I. D., Donovan, P., Doran, E., McKean, M. and Barras, M. A.</b> (2017), The type and incidence of adverse drug events in ageing medical inpatients and their effect on length of hospital stay. J Pharm Pract Res, 47: 347–354. doi:10.1002/jppr.1255
Journal article	Galbraith, K., <b>Coombes, I.</b> , Matthews, A., Rowett, D., Bader, L. R. and Bates, I. (2017), Advanced pharmacy practice: aligning national action with global targets. J Pharm Pract Res, 47: 131–135. doi:10.1002/jppr.1333
Journal article	Shanika LG, Wijekoon CN, Jayamanne S, Coombes J, <b>Coombes I</b> , Mamunuwa N, Dawson AH, De Silva HA: Acceptance and attitudes of healthcare staff towards the introduction of clinical pharmacy service: a descriptive cross-sectional study from a tertiary care hospital in Sri Lanka. BMC Health Serv Res 2017, 17(1):46.

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal article	Perera DMP, Coombes JA, Shanika LGT, Dawson A, Lynch C, Mohamed F, De Silva HA, Jayamanne SF, Peters NB, Myers B <b>Coombes I</b> : Opportunities for pharmacists to optimise quality use of medicines in a Sri Lankan hospital: an observational, prospective, cohort study. <i>Journal of Pharmacy Practice and Research</i> 2017, 47(2):121-130.
Journal article	Foot H, Freeman C, Hemming K, Scott I, <b>Coombes ID</b> , Williams ID, Connelly L, Whitty JA, Sturman N, Kirsas S, Nicholson C, Russell G, Kirkpatrick C and Cottrell N (2017) Reducing medical admissions into hospital through optimising medicines (REMAIN HOME) study: protocol for a stepped-wedge, cluster-randomised trial. <i>BMJ Open</i> , 7 4:. doi: 10.1136/bmjopen-2016-015301
Journal article	Myers, Brooke, Mitchell, Charles, Whitty, Jenny A., <b>Donovan, Peter</b> and <b>Coombes, Ian</b> (2017) Prescribing and medication communication on the post-take ward round. <i>Internal Medicine Journal</i> , 47 4 454-457. Doi:10.1111/imj.13280
Journal article	Shanika LG, Wijekoon CN, Jayamanne S, Coombes J, <b>Coombes I</b> , Mamunuwa N, De Silva HA Dawson AH,(2017): Ward-based clinical pharmacists and hospital readmission: a non-randomized controlled trial in Sri Lanka. <i>WHO Bulletin</i> . <a href="http://www.who.int/bulletin/online_first/BLT.17.198366.pdf?ua=1">http://www.who.int/bulletin/online_first/BLT.17.198366.pdf?ua=1</a>
Journal Article	Waddell J, Nissen L, <b>Hale A</b> . Advanced Pharmacy Practice in Australia and Leadership : Mapping the APPF against an evidence based leadership framework. <i>Journal of Pharmacy Practice and Research</i> 2017; <b>47</b> , 263-268
Journal article	Udy AA, Jarrett P, <b>Lassig-Smith M, Stuart J, Starr T</b> , Dunlop R, Deans R, <b>Roberts JA</b> , Senthuran S, <b>Boots R</b> , Bisht K, Bulmer AC, <b>Lipman J</b> . 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, <b>Lipman J</b> , Hope WW, <b>Roberts JA</b> . 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, <b>Lipman J, Roberts JA</b> . 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, <b>Lipman J</b> , Brüggemann RJ, Lefrant JY, <b>Roberts JA</b> . 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	<b>Roberts JA</b> , Kumar A, <b>Lipman J</b> . 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, <b>Lipman J, Roberts JA</b> , 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	Alobaid AS, Wallis SC, Jarrett P, <b>Starr T, Stuart J, Lassig-Smith M</b> , Mejia JL, Roberts MS, Roger C, Udy AA, <b>Lipman J, Roberts JA</b> . 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, <b>Lipman J, Roberts JA</b> . 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, <b>Dhanani J</b> , Welte T, Garcia-Alamino JM, <b>Roberts JA</b> , Rello J. Nebulization of Antiinfective Agents in Invasively Mechanically Ventilated Adults: A Systematic Review and Meta-analysis. <i>Anesthesiology</i> . 2017 May;126(5):890-908.
Journal article	Udy AA, Dulhunty JM, <b>Roberts JA</b> , Davis JS, Webb SAR, Bellomo R, Gomersall C, Shirwadkar C, Eastwood GM, Myburgh J, Paterson DL, <b>Starr T</b> , Paul SK, <b>Lipman J</b> . BLING-II Investigators; ANZICS Clinical Trials Group. Association between augmented renal clearance and clinical outcomes in patients receiving $\beta$ -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, <b>Lipman J, Roberts JA</b> . Impact of $\beta$ -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	<b>Roberts JA</b> , Lefrant JY, <b>Lipman J</b> . What's new in pharmacokinetics of antimicrobials in AKI and RRT? <i>Intensive Care Med</i> . 2017 Jun;43(6):904-906.
Journal article	Bergen PJ, Bulitta JB, Kirkpatrick CMJ, Rogers KE, McGregor MJ, Wallis SC, Paterson DL, Nation RL, <b>Lipman J, Roberts JA</b> , 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, <b>Lipman J, Roberts JA</b> . 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	Parker SL, Guerra Valero YC, Roberts DM, <b>Lipman J, Roberts JA</b> , 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	Sulaiman H, Abdul-Aziz MH, <b>Roberts JA</b> . 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, <b>Roberts JA</b> ; 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	Rello J, Solé-Lleonart C, Rouby JJ, Chastre J, Blot S, Poulakou G, Luyt CE, Riera J, Palmer LB, Pereira JM, Felton T, <b>Dhanani J</b> , Bassetti M, Welte T, <b>Roberts JA</b> . 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, <b>Lipman J</b> , Weiss S, Smith C, Russell L, Smith P, <b>Roberts JA</b> , 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	Xie J, <b>Roberts JA</b> , Alobaid AS, Roger C, Wang Y, Yang Q, Sun J, Dong H, Wang X, Xing J, <b>Lipman J</b> , 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.



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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, Negroi 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, <b>Roberts J</b> , 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	Kumta N, <b>Roberts JA</b> , <b>Lipman J</b> , 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, <b>Lipman J</b> , <b>Roberts JA</b> , 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	Sime FB, Hahn U, Warner MS, Tiong IS, Roberts MS, <b>Lipman J</b> , Peake SL, <b>Roberts JA</b> . 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 NJ, Liu J, O'Donnell JN, <b>Dulhunty JM</b> , Abdul-Aziz MH, Berko PY, Nadler B, <b>Lipman J</b> , <b>Roberts JA</b> . 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 <b>Lipman J</b> , <b>Roberts JA</b> . 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.
Journal article	Braune S, König C, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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

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Journal article	Abbott I, Meletiadiis J, Belghanch I, Wijma R, Kanioura L, <b>Roberts JA</b> , 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, Ramaologa S, Zuegg J, Betley JR, Beevers APG, Smith RAG, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> . 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , Nierhaus A, Steinametz 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , et al. A Global Declaration on Appropriate Use of Antimicrobial Agents across the Surgical Pathway. <i>World J Emerg Surg</i> 2017; 18 (8): 846-53.
Journal article	Rawson TM, O'Hare D, Herrero P, Sharma S, Moore LSP, de Barra E, <b>Roberts JA</b> , 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, <b>Roberts JA</b> , Muller L. Clinical Pharmacokinetics and Pharmacodynamics of Oxazolidinones. <i>Clin Pharmacokinet</i> 2017; In Press.
Journal article	Cheng V, Abdul-Aziz MH, <b>Roberts JA</b> , 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, <b>Roberts JA</b> . 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, <b>Roberts JA</b> . 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.

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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, <b>Roberts JA</b> . 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	<b>Roberts JA</b> . 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.
Book chapter	Sime FS, <b>Roberts JA</b> . Antibiotic Pharmacodynamics. In Udy AA, Roberts JA, <b>Lipman J</b> (eds). <i>Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill</i> . Springer, Switzerland, 2017.
Book chapter	Abdul-Aziz MH, Shekar K, <b>Roberts JA</b> . Antibiotic Dosing During Extracorporeal Membrane Oxygenation. In Udy AA, <b>Roberts JA</b> , Lipman J (eds). <i>Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill</i> . Springer, Switzerland, 2017.
Book chapter	Sinnollareddy M, Cotta MOC, <b>Roberts JA</b> . 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, <b>Lipman J</b> , <b>Roberts JA</b> . 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.
Book chapter	Geddes AM, Gould IM, <b>Roberts JA</b> , 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. <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.
Book chapter	Geddes AM, Gould IM, Trubiano JA, <b>Roberts JA</b> , Grayson ML. Benzylpenicillin (Penicillin G). 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.
Book chapter	Geddes AM, Gould IM, <b>Roberts JA</b> . Phenoxypenicillins. 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.
Book	Udy AA, <b>Roberts JA</b> , <b>Lipman J</b> (eds). <i>Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill</i> . Springer, Switzerland, 2017.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	<b>Angela North, Karen Whitfield, Karin Lust</b> , Helen Barrett. Therapeutic Heparin in the Obstetric Patient - RBWH Symposium 2017. Brisbane.
Poster	<b>Angela North, Karen Whitfield, Karin Lust</b> , Helen Barrett. Therapeutic Heparin in the Obstetric Patient - SOMANZ 2017. Canberra.
Poster	<b>Withers J, Coetzee R</b> , Langtry E. Improving discharge medication communication – expanding the pharmacy technician's role. Society of Hospital Pharmacists of Australia Federal Conference 2017. Sydney
Poster	<b>Michelle Rice, Stephanie Scammells, Liam Busuttin</b> . Watch out for the washout. Society of Hospital Pharmacists of Australia Medicines Management Conference 2017. Sydney
Poster	<b>Harper N, Stowasser D</b> . The Role of a Research Pharmacist in Electronic Medication Management (EMM). Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	<b>Harper N, Stowasser D.</b> The quality of medication allergy and adverse drug reaction documentation across electronic and paper sources. Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.
Presentation	<b>Lyndsay Steel, Jesseca Eglington.</b> Reviewing the impact of the pharmacist in Cardiology Outpatient Clinic's. Society of Hospital Pharmacists of Australia, Queensland Research Symposium 2017.
Poster	<b>Carla Scuderi, Jesseca Eglington, Toni Broadbent, Huan Zhang, Dr Scott Jones, Dr Andrew Mallett.</b> Sensipar® instead of Surgery. Is it a sensible option? Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.
Poster	Celeste Bloomfield, Michael Barras, Matthew Gibbs, Carly Fowler, Leigh Robertson, <b>Amy Legg,</b> June Chan, Rebecca Lee, Rodney Neale, Karl Winckel Enoxaparin dosing guidelines in mild to moderate renal impairment. . Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.
Presentation	Celeste Bloomfield, Michael Barras, Matthew Gibbs, Carly Fowler, Leigh Robertson, <b>Amy Legg,</b> June Chan, Rebecca Lee, Rodney Neale, Karl Winckel. Evaluation of therapeutic enoxaparin dose-response in obese patients: a retrospective case series. Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.
Poster	Thwaites PA, Braund A, <b>Legg A,</b> Beckman K, Mina J, McIntyre D, Cullen O, Fenech M, Zhou T, Hallam A, Rahman T, Wood M, Leggett BA, Skoien R. Optimising the impact of direct-acting antiviral treatment in hepatitis c: lessons from a universal access, real-world cohort. AASLD 2017
Poster	<b>Amy Legg,</b> Florian Grimpen, Peter Donovan. PPI appropriateness at RBWH – an audit to direct an innovative intervention. National Choosing Wisely Meeting Canberra 2017
Poster	<b>Amy Legg,</b> Florian Grimpen, Peter Donovan. PPI appropriateness at RBWH – an audit to direct an innovative intervention. RBWH symposium 2017
Invited	<b>Amy Legg</b> Invited speaker: Making Waves conference 2017 Antibiotic classes and pharmacokinetics and dynamics. 2017 Warnambool, Vic
Invited	<b>Amy Legg</b> Invited speaker: Hepatitis C summit 2017 Managing tricky drug interactions, Sydney
Invited	<b>Amy Legg</b> Invited speaker: Hepatitis C masterclass 2017, overview of DAAs and drug interactions. Brisbane
Poster	<b>William Franks,</b> Julian Williams: Assessment of antimicrobial prescribing in an emergency department prior to the introduction of a 7-day pharmacy service. A pre-intervention study. National AMR Forum
Poster	<b>William Franks,</b> Abiodun Bolarinwa. Assessment of antimicrobial prescribing in a correctional facility. QLD SHPA research symposium
Oral	<b>Trenergy H, Williams M, Coombes I.</b> Sterile endophthalmitis due to intravitreal bevacizumab cold chain breach. 43rd SHPA National Conference, Sydney, 16-19 November 2017.
Poster	<b>Trenergy H, Voussoughi P, Hosie C, Durso M.</b> Can high-dose loratadine cause seizures - adverse drug reaction or interaction? 43rd SHPA National Conference, Sydney, 16-19 November 2017.
Poster	<b>Danielle Ironside, Michelle Rice, Carla Dawson, Dr Sharad Ratanjee,</b> Louise Purtell, Qi Hui Ang, Assessing the equivalence of erythropoiesis-stimulating agents following brand switching
Poster and 3 minute oral	<b>Carla Scuderi, Dr Helen Healy, Dr Carol Doulgas, Isle Berique, Bernadette Taylor,</b> Dr Louise Purtell, Prof Ann Bonner. The Kidney Supportive Care Program- partnering with patients. Our patients our care.
Oral Invited	<b>Bernadette Taylor, Carla Scuderi, Dr Helen Healy, Dr Katrina Kramer,</b> Dr Louise Purtell, Prof Anne Bonner, <b>Ilse Beriquer.</b> Kidney Supportive Care program our journey thus far. Statewide Renal Network Forum May 2017.
Oral Invited	<b>Bernadette Taylor, Carla Scuderi.</b> Kidney Supportive Care Program. Renal Nursing Network –RENS dinner December 2017
Oral Invited	<b>Carla Scuderi</b> Clinical controversies in kidney disease. Australian Accredited Pharmacist forum. Australian Pharmacy Professional Gold Coast March 2017
Oral Invited	<b>Carla Scuderi</b> The nuts and bolts of kidney transplants – what community pharmacists need to know. Australian Pharmacy Professional Gold Coast March 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Poster	<b>Emily D'Arcy, Adrienne Kostellar, Chariclia Paradissis.</b> Metabolic Monitoring and Interventions for Mental Health Consumers on Antipsychotics in the Inpatient Setting
Poster	<b>Abby Yu, Negin Nasseh.</b> Patient adherence to pre-operative fasting and medication instructions. Do we make the cut? Society of Hospital Pharmacists of Australia Medicines Management Conference, 2017.
Poster	<b>Kate Murphy, Ian Coombes, Vikas Moudgil, Sue Patterson,</b> Prof Amanda Wheeler. Clozapine and concomitant medications: Setting the record straight. RBWH Healthcare Symposium 2017
Poster	<b>Kate Murphy, Ian Coombes,</b> Prof. Amanda Wheeler. Clozapine and shared care: The consumer experience. RBWH Healthcare Symposium 2017
Poster	Davies KM, Coombes I, <b>Keogh S,</b> Whitfield K. (2017) <b>Nurse Medication Administration Evaluation Tool Design. Queensland SHPA Research Symposium</b>
Poster	Whitfield K. <b>To develop and evaluate a structured training program for interns in the specialist field of women's and newborns pharmacy. Monash Pharmacy Education Symposium 2017, Prato, Italy, 9-12 July.</b>
Oral	<b>Whitfield K,</b> Barrett H, <b>Fassbind I, Hossein-zadeh Z, Hoy S, Lust K</b> Maternity outpatient department clinic – a new role for the women's and newborns pharmacist SHPA National Conference, November 2017 Sydney.
Poster	<b>Flor, Melynda, Snoswell, Centaine, Ranjantee, Sunita, Tessier, Cameron, Hale, Andrew,</b> Nissen, Lisa, Matthews, Andrew and Coombes, Ian (2017). Checking of dispensed items by an Accuracy Checking Pharmacy Assistant: pre-pilot workflow changes (poster presentation). In: Queensland Hospital Pharmacy Collaborative Research Symposium, Sunshine Coast University Hospital. 22 July 2017.
oral	Phillips, Cameron J. , Matthews, Andrew , Fowler, Peter , <b>Coombes, Ian</b> , Freeman, Christopher , Guidone, Daniel , Mangoni, Arduino A., Martin, Cathy , Brown, Catherine , Scott, Matthew and Ramnani, Sachin (2017). Hospital pharmacy residency- developing capacity and capability in the Australian pharmacy workforce. In: International Congress of Health Workforce Education and Research, Porto, Portugal, (). 27-29 June 2017.
Oral	Matthews, Andrew , Fowler, Peter , <b>Coombes, Ian</b> , Freeman, Christopher , Guidone, Daniel , Mangoni, Arduino A., Martin, Cathy , Phillips, Cameron J., Brown, Catherine , Scott, Matthew and Ramnani, Sachin (2017). Transitioning from academic education to professional practice: a national residency program for pharmacy. In: Australian and New Zealand Association for Health Professional Educators Conference, Adelaide, SA, Australia, (). 11-14 July 2017.
Poster	Fowler, Peter , Dooley, Michael , <b>Coombes, Ian D.,</b> Freeman, Christopher , Guidone, Dan , Mangoni, Arduino A., Martin, Cathy , Phillips, Cameron J., Brown, Catherine , Scott, Matthew , Michaels, Kristin and Ramnani, Sachin (2017). Pharmacy's yellow brick road: defining the path from undergraduate to advanced practice.. In: Stronger Together. 12th National Allied Health Conference, Sydney, Australia, (). 26-29 August 2017.
Oral	<b>Coombes I.</b> Development of Leadership roles. FIP (Pharmaceutical International Federation) Seoul, Korea. 2017
Oral Invited	<b>Hale A</b> : Collaborative Research. SHPA Research Bootcamp. Sydney 16th November 2017
Poster	<b>Turkington J, Hosie C, Hale A.</b> Barriers and Facilitators of the High Risk Discharge Pharmacy Service Set Up Queensland Hospital Pharmacy Collaborative Research Symposium, Sunshine Coast University Hospital. 22 July 2017
Poster	Waddell J, Nissen L, <b>Hale A.</b> Who Do You Think You Are? The Personality Traits of Australian Pharmacists. Queensland Hospital Pharmacy Collaborative Research Symposium, Sunshine Coast University Hospital. 22 July 2017
Poster	Waddell J, Nissen L, <b>Hale A.</b> Who Do You Think You Are? The Personality Traits of Australian Pharmacists. Society of Hospital Pharmacists of Australia Medicines Management Conference, Sydney, Nov 16th – 19th 2017
Poster	<b>Hosie C, Turkington J, Hale A.</b> Development of the ACTNOW referral tool : Flagging Patients who Need Pharmacy Outpatient Services. Society of Hospital Pharmacists of Australia Medicines Management Conference, Sydney, Nov 16th – 19th 2017

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Roberts JA</b> , “Should we be personalising antibiotic dosing for critically ill patients?” Critical Care Society of South Africa Annual Congress, Sun City, South Africa, October 2017.
Oral Invited	<b>Roberts JA</b> , “Practical Issues - Dosing on extra corporeal circuits” Critical Care Society of South Africa Annual Congress, Sun City, South Africa, October 2017.
Oral Invited	<b>Roberts JA</b> , “Continuous infusion vs intermittent dosing of beta-lactam antibiotics” Critical Care Society of South Africa Annual Congress, Sun City, South Africa, October 2017.
Oral Invited	<b>Roberts JA</b> , “Is the package insert correct? PK considerations” Critical Care Society of South Africa Annual Congress, Sun City, South Africa, October 2017.
Oral Invited	<b>Roberts JA</b> , “Antibiotics in ECMO: ACTIONS to REDUCE”. Australia-Pacific Extracorporeal Life Support Organisation (APELSO) Conference. Gold Coast, October 2017.
Oral Invited	<b>Roberts JA</b> , “Optimising antimicrobial dosing in the critically ill”. European Society of Intensive Care Medicine Annual Congress, Vienna, September 2017.
Oral Invited	<b>Roberts JA</b> , “Therapeutic drug monitoring - Ready for prime-time?” European Society of Intensive Care Medicine Annual Congress, Vienna, September 2017.
Oral Invited	<b>Roberts JA</b> , “Using PKPD to treat MDR pathogens”. European Society of Intensive Care Medicine Annual Congress, Vienna, September 2017.
Oral Invited	<b>Roberts JA</b> , “Antimicrobial PK/PD”. European Society of Intensive Care Medicine Annual Congress, Vienna, September 2017.
Oral Invited	<b>Roberts JA</b> , “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	<b>Roberts JA</b> , “How can the non-ID Specialist approach AMS”. South African Society of Clinical Pharmacists 7th Annual Conference, Johannesburg, South Africa June 2017.
Oral Invited	<b>Roberts JA</b> , “Therapies for specific infection syndromes”. South African Society of Clinical Pharmacists 7th Annual Conference, Johannesburg, South Africa June 2017.
Oral Invited	<b>Roberts JA</b> , “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	<b>Roberts JA</b> , “Customised antibiotic dosing to save patient’s lives” (Plenary) 1st Queensland-Guangdong Clinical Pharmacy Education Symposium, Guangzhou, China May 2017.
Oral Invited	<b>Roberts JA</b> , “Customised Drug Dosing in the Critically Ill”. International PEAK-II (Paul Ehrlich Antiinfektiva Konzentrationen) Workshop, Frankfurt, Germany, April 2017.
Oral Invited	<b>Roberts JA</b> , “Therapeutic Drug Monitoring – for all drugs, for all antibiotics?” European Conference on Clinical Microbiology and Infectious Diseases, Vienna, Austria, April 2017.
Oral Invited	<b>Roberts JA</b> , “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	<b>Roberts JA</b> , “From Diagnosing to Dosing” EUROASIA, European Society of Intensive Care Medicine, Hong Kong, April 2017.
Oral Invited	<b>Roberts JA</b> , “Dosing in Renal Replacement Therapy” EUROASIA, European Society of Intensive Care Medicine, Hong Kong, April 2017.
Oral Invited	<b>Roberts JA</b> , “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	<b>Roberts JA</b> , “Antimicrobial PK/PD”, Medicines Management 2017, Society of Hospital Pharmacists of Australia National Conference, Sydney, Australia November 2017.
Oral Invited	<b>Roberts JA</b> , “Individually Designed Optimum Dosing Strategies”, NHMRC Centre for Research Excellence REDUCE Dose Optimisation Workshop, November 2017, Sydney, Australia.
Oral Invited	<b>Roberts JA</b> , “Appropriate use of antibiotics in critical care”. National Forum on Antimicrobial Resistance. Brisbane, November 2017.

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral Invited	<b>Roberts JA</b> , “Why is antimicrobial dosing so important to the care of some patient groups?”. Specialist Antimicrobial Stewardship Workshop. National Forum on Antmicrobial Resistance. Brisbane, November 2017.
Oral Invited	<b>Roberts JA</b> . “Antimicrobials: Individualised Dosing and PKPD”. Advanced Critical Care Seminar, Society of Hospital Pharmacists of Australia, Gold Coast, October 2017.
Oral Invited	<b>Roberts JA</b> , “Lipophobic: the challenges of drug dosing in obesity”, Australia and New Zealand College of Anaesthetists Annual Scientific Meeting, Brisbane, Australia, May 2017.
Oral Invited	<b>Roberts JA</b> , 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	<b>Roberts JA</b> , “Importance of sufficient dosing for optimising patient outcomes from infection”. Royal Brisbane and Women’s Hospital Annual Research Symposium, Brisbane, September 2017.
Oral Invited	<b>Roberts JA</b> , “Show me the money: Maximising funding from small to large projects” Queensland Critical Care Research Forum, Sunshine Coast University Hospital, Caloundra, May 2017.

# RHEUMATOLOGY

During 2017 the rheumatology department produced a diverse range of research ranging from genetic based disease associations to implementation of quality clinical practice measures in patients with acute and chronic musculoskeletal disease. Areas of research interest include management of inflammatory arthritis, crystal arthritis and connective tissue disease.

The rheumatology department liaises closely with other medical specialties, allied health and community service providers to optimise patient outcomes while engaging in clinical based research. In particular, the rheumatology department is involved in Australian based research collaborations regarding lupus, systemic vasculitis and autoimmune disease.

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Philip Robinson	Nil	Gout Genetics

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	<b>Philip C Robinson</b> , Nicola Dalbeth and Peter Donovan. The cost effectiveness of six-monthly serum urate monitoring after reaching target in people with gout: a health economic analysis comparing biannual or annual monitoring to no monitoring. <b>Journal of Rheumatology</b> in press (IF 3.24)
Journal Article	LA Bradbury, KA Hollis, BGautier, S Shankaranarayana, <b>PC Robinson</b> , N Saad, KA Lê Cao, MA Brown. Diffusion-Weighted Imaging is a Sensitive and Specific MRI Sequence in the Diagnosis of Ankylosing Spondylitis. <b>Journal of Rheumatology</b> in press (IF 3.24)
Journal Article	Philip C Robinson and Nicola Dalbeth. Lesinurad for the treatment of hyperuricaemia in people with gout. <b>Expert Opinion in Pharmacotherapy</b> , e-published 13th November 2017 (IF 3.53)
Journal Article	Kathleen Morrisroe, Ayano Nakayama, Jason Soon, Mark Arnold, Les Barnsley, Claire Barrett, Prof. Peter M Brooks, Stephen Hall, Patrick Hanrahan, Dr Pravin Hissaria, Graeme Jones, Veera Srividya Katikireddi, Helen Keen, Rodger Laurent, Mandana Nikpour, Katherine Poulsen, <b>Philip Robinson</b> , A/ Prof Muriel Soden, Nigel Wood, Nicola Cook, Catherine Hill and Rachelle Buchbinder. EVOLVE: The Australian Rheumatology Association's 'top five' list of investigations and interventions doctors and patients should question. <b>Internal Medicine Journal</b> , e-published 28 October 2017. (IF 1.90)
Journal Article	Matthew A. Brown, Paul A. Bird, <b>Philip C. Robinson</b> et al. Evaluation of the effect of baseline MRI sacroiliitis and C reactive protein status on etanercept treatment response in non-radiographic axial spondyloarthritis: a post hoc analysis of the EMBARK study. <b>Annals of the Rheumatic Diseases</b> e-published 3rd July 2017 (IF 12.81)
Journal Article	G. Thomas, D. Willner, <b>P. Robinson</b> , A. Cortes ... M. Brown. Genetic diagnostic profiling in axial spondyloarthritis: a real world study. <b>Clinical &amp; Experimental Rheumatology</b> . 2017 Mar-Apr;35(2):229-233 (IF 2.63)



TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Journal Article	<b>Katherine Dutton</b> and Muriel Soden. Malignancy Screening in autoimmune myositis among Australian rheumatologists. Internal Medicine Journal 2017; 47: 1367-1375.
Journal Article	E. Donges, C.E. Staatz, H. Benham, <b>P. Kubler</b> , S.A. Hollingworth. Patterns in use and costs of conventional and biologic disease-modifying anti-rheumatic drugs in Australia. Clin Exp Rheum 2017; 35: 913-918

# SEXUAL HEALTH AND HIV SERVICE

The Sexual Health and HIV Service (SHHS) Commencing QPrEPd study in January 2017. This is a Queensland Government research study to roll out a state wide pre exposure prophylaxis program for HIV prevention in Queensland.

PrEP is an evidence based proof of concept in HIV prevention in individuals at risk of HIV exposure through taking daily antiretrovirals (generic) to ensure adequate blood levels of the drugs in the vent of possible exposure to the HIV Virus. Globally there are hundreds of thousands of people on PrEP, if adequate drug levels and no unforeseen circumstances there have been no documented new HIV infections on PrEP. Metro North SHHS is one of many state wide sites for the PrEP roll out program.

This large study has given the education and upskilling opportunities for staff at SHHS to be actively involved with recruitment, consenting process and follow up, and completion of Good Clinical Practice certificates. This research is an ongoing with funding for 4 years and a current recruitment cap of 3000 participants recruited from 20 centres state-wide.

The provision of the public health HIV prevention STUDY which also includes regular STI/HIV testing and follow up, raises the profile of the service and the care provided.

This study is collaboration between Queensland Government, University of Queensland and clinics who provide Sexual Health and HIV care.

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Dr Julian Langton-Lockton	Honorary Clinical Lecturer	Sexual Health and HIV	University of Queensland
Dr Graham Neilsen	Honorary Clinical Lecturer	Sexual Health and HIV	University of Queensland
Dr Fabiola Martin	Honorary Clinical Lecturer and UQ Medical School	Sexual Health and HIV	University of Queensland

## 2017 CURRENT RBWH RESEARCH GROUP / DEPARTMENT LED RESEARCH ACTIVITY

RBWH RESEARCH GROUP / DEPARTMENT LEAD RESEARCHERS	COLLABORATIVE RESEARCHERS	RESEARCH PROJECT TITLE
Julian Langton-Lockton Diane Rowling Andrew Redmond	Sara Bell Charles Gilks David Whiley, Jime Lemoire John Piispanen Judith Dean Mandy Seel Melissa Warner Owain Williams Rebecca Guy 'Rivett, Rayden' Rayden.Rivet ; Simon O'Connor Steven Badman	GeneXpert rapid STI testing in NGO setting
David Wiley, Julian Langton-Lockton, Graham Neilsen, Theo Van Leishout	Helen Smith Rikki Graham Cheryn Palmer Fiona.May Ella Trembizki	Use of molecular typing and genomics to enhance surveillance of Neisseria gonorrhoeae and associated antimicrobial resistance in Queensland

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Darren Russell	Diane Rowling, Julian Langton-Lockton, Theo Van Leishout, Graham Neilsen, Fiona Taylor, Ngaire Latch, Rohan Anderson, Adam Spinks, Wade Mcelland	Queensland QPrEP trial

## 2017 RESEARCH AWARDS AND ACHIEVEMENTS

RECIPIENT	AWARD	EVENT
Dr Katherine Garnham	RACP Chapter of Sexual Health Medicine Trainee presentation	National Sexual Health and HIV Conference Canberra , November 2017

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD>)
Letter	Neilsen G, Klug J. Leaving judgement at the door [letter]. Med J Aust 2014; 201 (10): 572-574. doi:10.5694/mja14.01213.
Journal Article	Assefa Y, Lynen L, Kloos H, Hill P, Rasschaert F, Hailemariam D, Neilsen G, Ware R, Van Damme W. Long-term outcomes and their determinants in patients on antiretroviral treatment in Ethiopia, 2005/6-2011/12: a retrospective cohort study. J Acquir Immune Defic Syndr 2015;70:414-9. doi:10.1097/QAI.0000000000000753.
Journal Article	Bell S, Dean J, Gilks C, Boyd MA, Fitzgerald L, Mutch A, Baker P, Neilsen G, Gartner CE. Tobacco Harm Reduction with Vaporised Nicotine (THRiVe): The Study Protocol of an Uncontrolled Feasibility Study of Novel Nicotine Replacement Products among People Living with HIV Who Smoke. Int J Environ Res Public Health 2017;14. Accepted: 5 July 2017.

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD>)
Oral	Katherine Garnham – Collaborative Project Gonorrhoea prevalence in Brisbane

# QUEENSLAND STATEWIDE ANTIMICROBIAL STEWARDSHIP PROGRAM

The research highlights for the Queensland Statewide Antimicrobial Stewardship Program were the collaboration of the Hot North Project which is quantifying and assessing appropriateness of antimicrobial prescribing practice in remote Aboriginal primary health care clinics across northern Australia.

The National Antimicrobial Resistance Forum was held in Brisbane, November 2017. The forum was a joint collaboration of the Queensland Statewide Antimicrobial Stewardship Program, Communicable Diseases Branch, Queensland Department of Health, the University of Queensland including the Centre of Research Excellence in Redefining Antimicrobial Use to Reduce Resistance, Queensland University of Technology and the National Centre for Antimicrobial Stewardship. This purpose of the forum was to provide a platform to share knowledge, experience and evidence for implementation of the response to antimicrobial resistance in the Australian context. It consisted of a clinical and scientific program with representatives from the academic, public, private and community sectors representing hospital, community and animal health, translational science and policy. Over two hundred delegates attended with over 70 sites registered to attend via video conference. The registrants included representatives from both national and international healthcare settings and from the following disciplines: medical, veterinary, allied health, scientists, government plus students.

Video conference: 71 sites registered to attend via video conference.

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

NAME	TYPE OF FELLOWSHIP	RESEARCH PROJECT	UNIVERSITY (YEARS)
Dr Yannick E'dmond	Honorary Fellowship in Antimicrobial Stewardship	Queensland Statewide Antimicrobial Stewardship program	Medical Doctor (M.D.) - Laval University: 2005-2010  Internal Medicine (FRCPC)- McGill University: 2010-2013  Infectious Diseases and Medical Microbiology (FRCPC) - McMaster University: 2013-2016

## 2017 COLLABORATIVE RESEARCH ACTIVITY INVOLVING RBWH RESEARCH GROUP / DEPARTMENT

COLLABORATIVE LEAD RESEARCHERS	RBWH RESEARCHERS	RESEARCH PROJECT TITLE
Prof Jodie McVernon	Dr Kathryn Daveson	Hot North project

## 2017 RESEARCH AWARDS

INVESTIGATORS (RBWH STAFF IN BOLD)	RBWH RESEARCH GROUPS / DEPARTMENTS	PROJECT TITLE	GRANTING BODY	AMOUNT IN 2017	TOTAL AMOUNT (YEARS)
<b>Dr Yannick Edmond, Amy Legg, Dr Andrew Redmond</b>	Department of Infectious Diseases	Recognition and Evaluation of Antibiotic Allergies to Improve patient Care in Hospital (REACH)	SEED Innovation funding	\$136,467	
Dr Kathryn Daveson	Queensland Statewide Antimicrobial Stewardship Program	Hot North	Menzies	\$36,000	

## 2017 RESEARCH PUBLICATIONS

TYPE (JOURNAL ARTICLE / BOOK / BOOK CHAPTER / LETTER)	PUBLICATION INFORMATION (RBWH STAFF IN BOLD)
Conference proceedings paper	<b>M.L. Avent, E.Waddell, M.Doidge, K.Daveson and K. Hajkowicz</b> 'A Statewide Antimicrobial Stewardship: what are the enablers and barriers for rural health?' 14th National Rural Health Conference 2017
Journal Article	<b>McCarthy KL</b> , Cherian JD, <b>Avent ML, Paterson DL</b> 'Combination antibiotic therapy for Pseudomonas aeruginosa bacteremia in febrile neutropenic patients? The question still remains. Infectious Diseases December (2017):1-4.
Journal Article	<b>Avent ML</b> , Fejzic J, van Driel M 'An underutilised resource for Antimicrobial Stewardship: a 'snapshot' of the community pharmacists' role in delayed or 'wait and see' antibiotic prescribing'. International Journal of Pharmacy Practice. In press

## 2017 CONFERENCE PRESENTATIONS – INVITED SPEAKER, ORAL AND POSTER:

TYPE (ORAL / POSTER / INVITED)	PRESENTATION INFORMATION (RBWH STAFF IN BOLD)
Oral	<b>Yannick Edmond:</b> Tutor at the Antimicrobial Dose Optimisation Workshop November 2017 in Sydney (BestDose antibiotic software).
Oral	<b>M.L. Avent*, E.Waddell, M.Doidge, K.Daveson and K. Hajkowicz</b> 'A Statewide Antimicrobial Stewardship: what are the enablers and barriers for rural health?' presented to the Antimicrobials 2017 scientific meeting on 23rd - 25th February 2017, Adelaide , South Australia
Poster	<b>Daveson KL, Waddell E, Avent ML, Hajkowicz K</b> , Antimicrobial Shortages: "Not Just a Supply Issue": Antimicrobial Stewardship Risk Assessment and Actions to Preserve Supply presented to the Antimicrobials 2017 scientific meeting on 23rd - 25th February, Adelaide , South Australia
Oral	<b>M.L. Avent, E.Waddell, M.Doidge, K.Daveson and K. Hajkowicz</b> 'A Statewide Antimicrobial Stewardship: what are the enablers and barriers for rural health?' presented to the 14th National Rural Health Conference 2017 on 26 th – 29 th April 2017, Cairns, Queensland
Oral	<b>Waddell E, Avent ML, Daveson K, McNamara S, Hajkowicz K.</b> 'Substantial Reduction in Antimicrobial use by a Remotely-managed Antimicrobial Stewardship Restriction Program in a Queensland Rural Hospital and Health Service'. Royal Brisbane & Women's Hospital 26th Annual Healthcare Symposium, 12th September, 2017