



Metro North Hospital and Health Service *Putting people first*

Research Report 2015/2016

Intensive Care Services
Critical Care and Clinical Support Services

Research Report 2015/2016

Published by the State of Queensland (Metro North Hospital and Health Service), April 2017



This document is licensed under a Creative Commons Attribution 3.0 Australia licence.
To view a copy of this licence, visit creativecommons.org/licenses/by/3.0/au

© State of Queensland (Metro North Hospital and Health Service) 2017

You are free to copy, communicate and adapt the work, as long as you attribute the State of Queensland (Metro North Hospital and Health Service).

For more information, contact:

Intensive Care Services, Royal Brisbane and Women's Hospital, Metro North Hospital and Health Service, Butterfield Street, Herston QLD 4029

email Alana.fletcher@health.qld.gov.au, phone 3646 8897

Disclaimer:

The content presented in this publication is distributed by the Queensland Government as an information source only. The State of Queensland makes no statements, representations or warranties about the accuracy, completeness or reliability of any information contained in this publication. The State of Queensland disclaims all responsibility and all liability (including without limitation for liability in negligence) for all expenses, losses, damages and costs you might incur as a result of the information being inaccurate or incomplete in any way, and for any reason reliance was placed on such information.

Contents

Introduction	4
2015 Publications	5
2016 Publications	14
Publications in Press	23
Book Chapters Published and In Press 2015	26
Book Chapters Published and In Press 2016	27
Research Projects 2015	29
Clinical Research	29
Completed Projects Awaiting Results	30
Projects Completed in 2015	31
Current Research Projects 2016	32
Clinical Research	32
Completed Projects Awaiting Results	34
Projects Completed in 2016	34
Published Proceedings 2015	35
Published Proceedings 2016	36
Invited Papers and Presentations 2015	37
Invited Papers and Presentations 2016	41
Conference and Poster Presentations 2015	44
Conference and Poster Presentations 2016	47

Awarded Grants 2015	48
Awarded Grants 2016	51
Awards 2015	54
Awards 2016	54
Research Collaboration	55
Queensland	55
National	56
International	58
Professional Organisational Activity	61

Introduction

This edition obviously is a bumper edition incorporating ICU research for both 2015 and 2016. Not surprisingly in it we see over 201 peer reviewed articles. At any level this is a huge achievement for a relatively small department (as against Medicine, Surgery etc). It is noteworthy that this occurs in addition to good, routine patient bedside care, something we at RBWH ICU hold in the highest regard.

These last two years have seen some significant staff changes within the ICU research environment. Both clinical (Associate Professor Jeffrey Presneill) and nurse co-ordinator (Paul Jarrett) have moved on to other pastures. In this regard we are pleased to introduce two new research co-ordinators, Jenie Butler and Amelia Livermore.

Professor Fiona Coyer has now integrated well into our research infrastructure. She is a joint appointment with Queensland University of Technology and both Fiona and QUT add an extra dimension to our research portfolio. Personally it is really pleasing to note the diversity of the collaborative parties at our weekly research management meetings.

One of the most notable achievements recently is development of our work on pharmacokinetic and antibiotic resistance. We received a University of Queensland Strategic Grant to develop an International Pharmacokinetic Centre and a very prestigious NHMRC Centre for Research Excellence (CRE) grant for REDUCE (Redefining Antimicrobial Use to Reduce Resistance). As well as this, Professor Jason Roberts has a new collaborative facility (at the UQ School of Pharmacy named "The Pharmacy of Australia Centre of Excellence" or PACE, housed on the Princess Alexandra Hospital campus). The above mentioned large grants and our facilities at PACE provide us with great potential to understand and counteract certainly some of the bacterial resistance we see in ICUs.

As a result of our international prominence in this field we have managed to get "Big Pharma" to invest in our intellectual and practical capabilities. We are now on the cusp of doing work on new antibiotics such that ICU dosing is correctly achieved early on in the drug development and marketing phases. Collaboration with the Monash Pharmacy Group via a successful NHMRC Project grant in 2015 has helped in this regard.

In the last report I noted the successful NHMRC Beta-Lactam Infusion Group BLING II Grant. The grant was for a 420 double-blind randomised controlled trial. This trial was run out of our Research Office, a huge (and successful) undertaking. BLING II has now been completed and published in American Journal of Respiratory and Critical Care Medicine. This has led us to follow on to the definitive large Phase III trial – a 7,000 patient world-wide RCT comparing bolus vs continuous infusion of meropenem and piperacillin/tazobactam. It is pleasing to note for the 2016 NHMRC Project Round we were successful in obtaining a \$3,200,000 grant to perform this study. Beta lactam infusions is something I have been working on for over 20 years!

Thank you all once again for your exceptional efforts!

Professor Jeffrey Lipman
Director, Intensive Care Services

2015 Publications

Abdul-Aziz MH, **Lipman J**, Mouton JW, Hope WW, **Roberts JA**. Applying pharmacokinetic/pharmacodynamic principles in critically ill patients: optimizing efficacy and reducing resistance development. *Semin Respir Crit Care Med*. 2015 Feb;36(1):136-53.

Abdul-Aziz MH, Rahman AA, Mat-Nor MB, Sulaiman H, Wallis SC, **Lipman J, Roberts JA**, Staatz C. Population pharmacokinetics of doripenem in critically ill patients with sepsis in a Malaysian intensive care unit. *Antimicrob Agents Chemother*. 2015 Oct 19;60(1):206-14.

Adsett JA, Mudge AM, Morris N, Kuys S, **Paratz JD**. Aquatic exercise training and stable heart failure: A systematic review and meta-analysis. *Int J Cardiol*. 2015;186:22-28.

Angus DC, Barnato AE, Bell D, Bellomo R, Chong CR, Coats TJ, Davies A, Delaney A, Harrison DA, Holdgate A, Howe B, Huang DT, Iwashyna T, Kellum JA, Peake SL, Pike F, **Reade MC**, Rowan KM, Singer M, Webb SA, Weissfeld LA, Yealy DM, Young JD. A systematic review and meta-analysis of early goal-directed therapy for septic shock: the ARISE, ProCESS and ProMISe Investigators. *Intensive Care Med*. 2015 Sep;41(9):1549-60.

Baptista JP, **Roberts JA**, Sousa E, Freitas R, Devesa N, Pimental J. Decreasing the Time to Achieve Therapeutic Vancomycin Concentrations in Critically Ill Patients: Developing and Testing of a Dosing Nomogram. *Crit Care* 2014;18(6):654.

Barnett AG, Herbert DL, Campbell M, Daly N, **Roberts JA**, Mudge A, Graves N. Streamlined research funding using short proposals and accelerated peer review: an observational study. *BMC Health Serv Res*. 2015;15:55.

Bissett B, Leditschke IA, Neeman T, **Boots R, Paratz J**. Weaned but weary: one third of adult intensive care patients mechanically ventilated for 7 days or more have impaired inspiratory muscle endurance after successful weaning. *Heart Lung*. 2015 Jan-Feb;44(1):15-20.

Brink AJ, Richards GA, Lautenbach EE, Rapeport N, Schillack V, van Niekerk L, **Lipman J, Roberts JA**. Albumin concentration significantly impacts on free teicoplanin plasma concentrations in non-critically ill patients with chronic bone sepsis. *Int J Antimicrob Agents*. 2015 Jun;45(6):647-51.

Cairns K, **Roberts JA, Cotta MO**, Cheng AC. Antimicrobial stewardship in Australian hospitals and other settings. *Infect Dis Ther* 2015;4(Suppl 1):27-38.

Carlier M, **Roberts JA**, Stove V, Verstraete AG, **Lipman J**, De Waele JJ. A Simulation Study Reveals Lack of Pharmacokinetic/Pharmacodynamic Target Attainment in De-escalated Antibiotic Therapy in Critically Ill Patients. *Antimicrob Agents Chemother*. 2015 Aug;59(8):4689-94.

Carlier M, Stove V, Wallis SC, De Waele JJ, Verstraete AG, **Lipman J, Roberts JA**. Assays for therapeutic drug monitoring of β -lactam antibiotics: A structured review. *Int J Antimicrob Agents*. 2015 Oct;46(4):367-75.

Carlier M, Taccone FS, Beumier M, Seyler L, Cotton F, Jacobs F, **Roberts JA**. Population pharmacokinetics and dosing simulations of cefepime in septic shock patients receiving continuous renal replacement therapy. *Int J Antimicrob Agents*. 2015 Oct;46(4):413-9.

Caruana L, **Paratz JD**, Chang A, Barnett AG, Fraser JF. The time taken for the regional distribution of ventilation to stabilise: an investigation using electrical impedance tomography. *Anaesth Intensive Care*. 2015 Jan;43(1):88-91.

Conway P, Pretorius CJ, Ungerer JP, **Lassig-Smith M**, **Stuart J**, **Jarrett P**, **Starr T**, **Dunlop R**, Venkatesh B, **Cohen J**. Cortisol responses at baseline and after corticotropin in acute aneurysmal subarachnoid haemorrhage: a prospective study. *Crit Care Resusc*. 2015 Mar;17(1):37-42.

Cotta MO, **Gowen B**, **Truloff N**, Bursle E, McWhinney B, Ungerer JP, **Roberts JA**, **Lipman J**. Even high-dose extended infusions may not yield desired concentrations of β -lactams: the value of therapeutic drug monitoring. *Infect Dis (Lond)*. 2015;47(10):739-42.

Cotta MO, **Roberts JA**, **Lipman J**. Antibiotic dose optimization in critically ill patients. *Med Intensiva*. 2015 Dec;39(9):563-72.

Coyer F, Gardner A, Doubrovsky A, Cole RL, **Ryan F**, **Allen C**, **McNamara G**. Reducing pressure injuries in critically ill patients by using a skin integrity care bundle (InSPiRE). *Am J Crit Care*, 2015 May;24(3):199-209.

D'Agostino C, Rhodes NJ, Skoglund E, **Roberts JA**, Scheetz MH. Microbiologic clearance following transition from standard infusion piperacillin-tazobactam to extended-infusion for persistent Gram negative bacteremia and possible endocarditis: A case report and review of the literature. *J Infect Chemother* 2015; 21(10): 742-6.

De Waele JJ, **Lipman J**, Carlier M, **Roberts JA**. Subtleties in practical application of prolonged infusion of β -lactam antibiotics. *Int J Antimicrob Agents*. 2015 May;45(5):461-3.

Doig GS, Simpson F, Bellomo R, Heighes PT, Sweetman EA, Chesher D, Pollock C, Davies A, Botha J, Harrigan P, **Reade MC**. Intravenous amino acid therapy for kidney function in critically ill patients: a randomized controlled trial. *Intensive Care Med*. 2015 Jul;41(7):1197-208.

Doig GS, Simpson F, Heighes PT, Bellomo R, Chesher D, Caterson ID, **Reade MC**, Harrigan PWJ. Restricting caloric intake during the refeeding syndrome in critically ill adults. *Lancet Respiratory Medicine*. 2015;03(12):943-952.

Donadello K, Antonucci E, Cristallini S, **Roberts JA**, Beumier M, Scolletta S, Jacobs F, Rondelet B, de Backer D, Vincent JL, Taccone FS. β -Lactam pharmacokinetics during extracorporeal membrane oxygenation therapy: A case-control study. *Int J Antimicrob Agents*. 2015 Mar;45(3):278-82.

Dulhunty JM, **Roberts JA**, Davis JS, Webb SA, Bellomo R, Gomersall C, Shirwadkar C, Eastwood GM, Myburgh J, Paterson DL, **Starr T**, Paul SK, **Lipman J**. A Multicenter Randomized Trial of Continuous versus Intermittent β -Lactam Infusion in Severe Sepsis. *Am J Respir Crit Care Med*. 2015 Dec 1;192(11):1298-305.

Gill G, Crozier J, Flint C, Matthews G, Duff N, **Reade MC**, Butt P, Brown G, Chambers A, Courtenay B, Innes D, O'Malley B. HOSPEX in the Antipodes. *J R Army Med Corps*. 2015;161(4):336-40.

Grau S, Luque S, Campillo N, Samso E, Rodriguez U, Garcia JC, Salas E, Sharma R, Hope WW, **Roberts JA**. Plasma and peritoneal fluid population pharmacokinetics of micafungin in postsurgical patients with severe peritonitis. *J Antimicrob Chemother*. 2015;70(10):2854-61.

Hanrahan TP, Harlow G, Hutchinson J, **Dulhunty JM**, **Lipman J**, Whitehouse T, **Roberts JA**. The author's reply. *Crit Care Med*; 2015; 43(5): e154-5.

Hanrahan TP, Kotapati C, Roberts MJ, Rowland J, **Lipman J**, **Roberts JA**, **Udy A**. Factors associated with vancomycin nephrotoxicity in the critically ill. *Anaesth Intensive Care*. 2015 Sep;43(5):594-9.

Hanrahan TP, Whitehouse T, **Lipman J**, **Roberts JA**. Vancomycin-associated nephrotoxicity: A meta-analysis of administration by continuous versus intermittent infusion. *Int J Antimicrob Agents*. 2015 Sep;46(3):249-53.

Harris P, Peleg AY, Iredell J, Ingram PR, Miyakis S, Stewardson AJ, Rogers BA, McBryde ES, **Roberts JA**, **Lipman J**, Athan E, Paul SK, Baker P, Harris-Brown T, Paterson DL. Meropenem versus piperacillin-tazobactam for definitive treatment of bloodstream infections due to ceftriaxone non-susceptible *Escherichia coli* and *Klebsiella* spp (the MERINO trial): study protocol for a randomised controlled trial. *Trials*. 2015 Jan 27;16(1):24.

Hines S, Ramsbotham J, **Coyer F**. The effectiveness of interventions for improving the research literacy of nurses: a systematic review. *Worldviews Evid Based Nurs*. 2015 Oct;12(5):265-72.

Huttner A, Harbarth S, Hope WW, **Lipman J**, **Roberts JA**. Therapeutic drug monitoring of the β -lactam antibiotics: what is the evidence and which patients should we be using it for? *J Antimicrob Chemother*. 2015 Dec;70(12):3178-83.

Jamal JA, Mat-Nor MB, Mohamad-Nor FS, **Udy AA**, Wallis SC, **Lipman J**, **Roberts JA**. Pharmacokinetics of meropenem in critically ill patients receiving continuous venovenous haemofiltration: A randomised controlled trial of continuous infusion versus intermittent bolus administration. *Int J Antimicrob Agents*. 2015 Jan;45(1):41-5.

Jamal JA, Mueller BA, Choi GY, **Lipman J**, **Roberts JA**. How can we ensure effective antibiotic dosing in critically ill patients receiving different types of renal replacement therapy? *Diagn Microbiol Infect Dis*. 2015 May;82(1):92-103.

Jamal JA, Roberts DM, **Udy AA**, Mat-Nor MB, Mohamad-Nor FS, Wallis SC, **Lipman J**, **Roberts JA**. Pharmacokinetics of piperacillin in critically ill patients receiving continuous venovenous haemofiltration: A randomised controlled trial of continuous infusion versus intermittent bolus administration. *Int J Antimicrob Agents*. 2015 Jul;46(1):39-44.

Jamal JA, **Udy AA**, Wallis SC, Ranganathan D, McWhinney BC, Ungerer JP, **Lipman J**, **Roberts JA**. Can we use an ex vivo continuous hemofiltration model to describe the adsorption and elimination of meropenem and piperacillin? *Int J Artif Organs*. 2015 Aug;38(8):419-24.

Johnson L, Tan S, Hyland R, **Reade MC**, Marks D. In vitro comparison of cryopreserved and liquid platelets: potential clinical implications. *Transfusion*. 2015;55(4):838-847.

Joynt GM, **Lipman J**, Hartog C, Guidet B, Paruk F, Feldman C, Kissoon N, Sprung CL. The Durban World Congress Ethics Round Table IV: Health care professional end-of-life decision making. *J Crit Care*. 2015 Apr;30(2):224-30.

Kanji S, Hayes M, Ling A, Shamseer L, Chant C, Edwards DJ, Edwards S, Ensom MH, Foster DR, Hardy B, Kiser TH, la Porte C, **Roberts JA**, Shulman R, Walker S, Zelenitsky S, Moher D. Reporting Guidelines for Clinical Pharmacokinetic Studies: The ClinPK Statement. *Clin Pharmacokinet*. 2015 Jul;54(7):783-95.

Kayambu G, **Boots R, Paratz J**. Early physical rehabilitation in intensive care patients with sepsis syndromes: a pilot randomised controlled trial. *Intensive Care Med*. 2015 May;41(5):865-74.

Koulenti D, Blot S, **Dulhunty JM**, Papazian L, Martin-Loeches I, Dimopoulos G, Brun-Buisson C, Nauwynck M, Putensen C, Sole-Violan J, Armaganidis A, Rello J; and the EU-VAP/CAP Study Group. COPD patients with ventilator-associated pneumonia: implications for management. *Eur J Clin Microbiol Infect Dis*. 2015 Dec;34(12):2403-11.

Lau AF, Kabir M, Chen SC, Playford EG, Marriott DJ, Jones M, **Lipman J**, McBryde E, Gottlieb T, Cheung W, Seppelt I, Iredell J, Sorrell TC. Candida colonization as a risk marker for invasive candidiasis in mixed medical-surgical intensive care units: development and evaluation of a simple, standard protocol. *J Clin Microbiol*. 2015 Apr;53(4):1324-30.

Lipman J, Roberts JA. Does Appropriate Antibiotic Therapy Mean Only Adequate Spectrum and Timing? *Crit Care Med*. 2015 Aug;43(8):1773-4.

Lopez-Garcia B, Luque S, **Roberts JA**, Alvarez-Lerma F, Samsó E, Horcajada JP, Grau S. Pharmacokinetics and preliminary safety of high dose linezolid for the treatment of gram-positive bacterial infections. *J Infect*. 2015;71(5):604-7.

McGarry BJ, Theobald K, Lewis PA, **Coyer F**. Flexible learning design in curriculum delivery promotes student engagement and develops metacognitive learners: an integrated review. *Nurse Educ Today*. 2015 Sep;35(9):966-73.

Mer M, **Lipman J**. Antibiotic administration in the critically ill - in need of intensive care! *S Afr Med J*. 2015 May;105(5):357-9.

McHugh L, Seldon TA, Brandon RA, Kirk JT, Rapisarda A, Sutherland AJ, **Presneill JJ**, Venter DJ, **Lipman J**, Thomas MR, Klein Klouwenberg PM, van Vught L, Scicluna B, Bonten M, Cremer OL, Schultz MJ, van der Poll T, Yager TD, Brandon RB. A Molecular Host Response Assay to Discriminate Between Sepsis and Infection-Negative Systemic Inflammation in Critically Ill Patients: Discovery and Validation in Independent Cohorts. *PLoS Med*. 2015 Dec 8;12(12):e1001916.

Morgan TJ, **Presneill JJ**, Davies PG, Power G, Venkatesh B. Sodium reduction during cardiopulmonary bypass: Plasma-Lyte 148 versus trial fluid as pump primes. *Crit Care Resusc*. 2015 Dec;17(4):263-7.

Nichol A, French C, Little L, Haddad S, **Presneill JJ**, Arabi Y, Bailey M, Cooper DJ, Duranteau J, Huet O, Mak A, McArthur C, Pettilä V, Skrifvars M, Vallance S, Varma D, Wills J, Bellomo R; EPO-TBI Investigators and the ANZICS Clinical Trials Group. Erythropoietin in traumatic brain injury (EPO-TBI): a double-blind randomised controlled trial. *Lancet*. 2015 Dec 19;386(10012):2499-506.

Nichol A, Gantner D, **Presneill JJ**, Murray L, Trapani T, Bernard S, Cameron P, Capellier G, Forbes A, McArthur C, Newby L, Rashford S, Rosenfeld JV, Smith T, Stephenson M, Varma D, Walker T, Webb S, Cooper DJ. Protocol for a multicentre randomised controlled trial of early and sustained prophylactic hypothermia in the management of traumatic brain injury. *Crit Care Resusc*. 2015 Jun;17(2):92-100.

O'Callaghan D, **Holley A, Lipman J**. From the intensive care bed: we need to hear and listen. *Intensive Care Med*. 2015 May;41(5):921-2.

Orchard GR, Hielscher KA, Wilke AD, Thomae MK, **Presneill JJ**. Lead poisoning in Australia associated with privately imported Ayurvedic complementary medicine. *Anaesth Intensive Care*. 2015 Sep;43(5):669-70.

Orchard GR, **Paratz JD**, Blot S, **Roberts JA**. Risk Factors in Hospitalized Patients With Burn Injuries for Developing Heterotopic Ossification-A Retrospective Analysis. *J Burn Care Res*. 2015 Jul-Aug;36(4):465-70.

Paratz JD, Lipman J, Boots RJ. The authors reply. *Crit Care Med*. 2015 Mar;43(3):e101-2.

Paratz JD, Ntoumenopoulos G. Detection of Secretion retention in the ventilated patient. *Curr Respir Med Rev*. 2015;10:151-157.

Parker SL, Adnan S, Ordóñez Meija JL, Paterson DL, **Lipman J**, Roberts JA, Wallis SC. An UHPLC-MS/MS method for the simultaneous determination of ampicillin and sulbactam in human plasma and urine. *Bioanalysis* 2015;7:2311-2319.

Parker SL, Frantzeskaki F, Wallis SC, Diakaki C, Giamarellou H, Koulenti D, Karaikos I, **Lipman J**, Dimopoulos G, **Roberts JA**. Population Pharmacokinetics of Fosfomycin in Critically Ill Patients. *Antimicrob Agents Chemother*. 2015 Oct;59(10):6471-6.

Parker SL, **Lipman J**, Dimopoulos G, **Roberts JA**, Wallis SC. A validated method for the quantification of fosfomycin on dried plasma spots by HPLC-MS/MS: Application to a pilot pharmacokinetic study in humans. *J Pharm Biomed Anal*. 2015 Jul 19;115:509-514.

Parker SL, **Lipman J, Roberts JA**, Wallis SC. A simple LC-MS/MS method using HILIC chromatography for the determination of fosfomycin in plasma and urine: Application to a pilot pharmacokinetic study in humans. *J Pharm Biomed Anal*. 2015 Feb;105:39-45.

Parker SL, **Roberts JA, Lipman J**, Wallis SC. Quantitative bioanalytical validation of fosfomycin in human whole blood with volumetric absorptive microsampling. *Bioanalysis*. 2015 Oct;7(19):2585-95.

Pather P, Hines S, Kynoch K, **Coyer F**. The effectiveness of topical skin products in the treatment and prevention of incontinence-associated dermatitis: a systematic review protocol. *JBI Database System Rev Implement Rep*. 2015 Jun 12;13(5):36-52.

Paxton JL, **Presneill J**, Aitken L. Re:Characteristics of obstetric patients referred to intensive care in an Australian tertiary hospital [response to letter]. *Aust New Zeal J Obstet Gynaec* 2015 Apr;55(2):196-7.

Peasey M, Walsh J, Yerkovich S, **Paratz J**, Morris N. Defining response in physical activity in COPD patients undertaking pulmonary rehabilitation. *Respirology* 2015;20:101.

Ramanan M, **Lipman J**, Shorr A, Shankar A. A meta-analysis of ventriculostomy-associated cerebrospinal fluid infections. *BMC Infect Dis*. 2015 Jan 8;15(1):3.

Ranse K, Yates P, **Coyer F**. Factors influencing the provision of end-of-life care in critical care settings: development and testing of a survey instrument. *J Adv Nurs*.2015;71(3):697-709.

Reade MC. Blast injury: what to expect in civilian vs. military contexts. *ICU Management*. 2015;4:65-70.

Reade MC. A quicker and more reliable method of excluding inadvertent arterial puncture during central venous line insertion. *Anaesth Intensive Care.* 2015;43(2):271-272.

Richardson P, Greenslade J, Shanmugathasan S, Doucet K, **Widdicombe N**, Chu K, Brown A. PREDICT: a diagnostic accuracy study of a tool for predicting mortality within one year: who should have an advance healthcare directive? *Palliat Med.* 2015 Jan;29(1):31-7.

Rickard CM, Marsh N, Webster J, Playford EG, McGrail MR, Larsen E, Keogh S, McMillan D, Whitty JA, Choudhury MA, Dunster KR, Reynolds H, Marshall A, Crilly J, Young J, Thom O, **Gowardman J**, Corley A, Fraser JF. Securing All intraVenous devices Effectively in hospitalised patients-the SAVE trial: study protocol for a multicentre randomised controlled trial. *BMJ Open.* 2015 Sep 23;5(9):e008689.

Roberts JA, Cotta MO, Cojutti P, Lugano M, Della Rocca G, Pea F. Does critical illness change levofloxacin pharmacokinetics? *Antimicrob Agents Chemother* 2016; 60(3): 1459-63.

Roberts JA, Udy AA, Jarrett P, Wallis SC, Hope WW, Sharma R, Kirkpatrick CM, Kruger PS, Roberts MS, **Lipman J.** Plasma and target-site subcutaneous tissue population pharmacokinetics and dosing simulations of cefazolin in post-trauma critically ill patients. *J Antimicrob Chemother.* 2015 May;70(5):1495-502.

Roberts DM, Liu X, **Roberts JA,** Nair P, Cole L, Roberts MS, **Lipman J,** Bellomo R. A multicenter study on the effect of continuous hemodiafiltration intensity on antibiotic pharmacokinetics. *Crit Care* 2015;19(1):84.

Roger C, Nucci B, Molinari N, Bastide S, Saissi G, Pradel G, Barbar S, Aubert C, Lloret S, Elotmani L, Polge A, Lefrant JY, **Roberts JA,** Muller L. Standard dosing of amikacin and gentamicin in critically ill patients results in variable and subtherapeutic concentrations. *J Antimicrob Agents.* 2015 Jul;46(1):21-7.

Roger C, Nucci B, Louart B, Friggeri A, Knani H, Evrard A, Lavigne JP, Allaouchiche B, Lefrant JY, **Roberts JA,** Muller L. Impact of 30-mg/kg amikacin and 8-mg/kg gentamicin on serum concentrations. *J Antimicrob Chemother.* 2015;71(1):208-12.

Sakr Y, Moreira CL, Rhodes A, Ferguson ND, Kleinpell R, Pickkers P, Kuiper MA, **Lipman J,** Vincent JL; on behalf of the Extended Prevalence of Infection in Intensive Care Study Investigators. The Impact of Hospital and ICU Organizational Factors on Outcome in Critically Ill Patients: Results From the Extended Prevalence of Infection in Intensive Care Study. *Crit Care Med.* 2015 Mar;43(3):519-26.

Saxena MK, Taylor C, Billot L, Bompont S, **Gowardman J, Roberts JA, Lipman J,** Myburgh J. The Effect of Paracetamol on Core Body Temperature in Acute Traumatic Brain Injury: A Randomised, Controlled Clinical Trial. *PLoS One.* 2015 Dec 17;10(12):e0144740.

Shekar K, **Roberts JA,** Barnett AG, Diab S, Wallis SC, Fung YL, Fraser J. Can physicochemical properties of antimicrobials be used to predict their pharmacokinetics during extracorporeal membrane oxygenation? Illustrative data from ovine models. *Crit Care* 2015;19(1):437.

Shekar K, **Roberts JA,** McDonald CI, Ghassabian S, Anstey C, Wallis SC, Mullany DV, Fung YL, Fraser JF. Protein bound drugs are prone to sequestration in the ECMO circuit: Results from an ex vivo study. *Crit Care.* 2015;19(1):164.

Sime FB, Roberts MS, Tiong IS, Gardner JH, Lehman S, Peake SL, Hahn U, Warner MS, **Roberts JA**. Can therapeutic drug monitoring optimize exposure to piperacillin in febrile neutropenic patients with haematological malignancies? A randomized controlled trial. *J Antimicrob Chemother*. 2015 Aug;70(8):2369-75.

Sime FB, Roberts MS, Tiong IS, Gardner J, Lehman S, Peake SL, Hahn U, Warner M, **Roberts JA**. Adequacy of high-dose cefepime regimen in febrile neutropenic patients with hematological malignancies. *Antimicrob Agents Chemother* 2015;59(9):5463-9.

Sinnollareddy MG, **Roberts JA**, **Lipman J**, Akova M, Bassetti M, De Waele JJ, Kaukonen KM, Koulenti D, Martin C, Montravers P, Rello J, Rhodes A, **Starr T**, Wallis SC, Dimopoulos G; DALI Study authors. Pharmacokinetic variability and exposures of fluconazole, anidulafungin, and caspofungin in intensive care unit patients: Data from multinational Defining Antibiotic Levels in Intensive care unit (DALI) patients Study. *Crit Care*. 2015 Feb 4;19(1):33.

Sinnollareddy MG, Roberts MS, **Lipman J**, Robertson TA, Peake SL, **Roberts JA**. Pharmacokinetics of fluconazole in critically ill patients with acute kidney injury receiving sustained low efficiency diafiltration. *Int J Antimicrob Agents*. 2015;45:192-195.

Sinnollareddy MG, Roberts MS, **Lipman J**, **Lassig-Smith M**, **Starr T**, Robertson T, Peake SL, **Roberts JA**. Determination of Subcutaneous Interstitial Fluid Penetration and Pharmacokinetics of Fluconazole in Intensive Care Unit Patients with Sepsis Using In Vivo Microdialysis. *Antimicrob Agents Chemother*. 2015;60(2):827-32.

Sinnollareddy MG, Roberts MS, **Lipman J**, Peake SL, **Roberts JA**. Influence of sustained low-efficiency diafiltration (SLED-f) on interstitial fluid concentrations of fluconazole in a critically ill patient: Use of microdialysis. *Int J Antimicrob Agents*. 2015 Jul;46(1):121-4.

Stankiewicz M, **Coyer F**, Osborne O, Webster J. The incidence and predictors of lower limb split skin graft failure and primary closure dehiscence in day-case surgical patients. *Dermatol Surg*. 2015 Jul;41(7):775-83.

Stankiewicz M, Webster J, **Coyer F**. 2015. An evaluation of wound care product costs, from failed lower limb surgical sites compared with patients who heal immediately post-operatively. *Wound Practice and Research*. 2015.23(1);25-28.

Stevenson S, **Gowardman J**, Tozer S, Woods M. Life-threatening Q fever infection following exposure to kangaroos and wallabies. *BMJ Case Rep*. 2015 Sep17;2015.pii:bcr2015210808.

Tabah A, Dewaele JJ, **Lipman J**, Zahar JR, **Cotta MO**, Barton G, Timsit JF, **Roberts JA**. The ADMIN-ICU Survey: a survey on Antimicrobial Dosing and Monitoring IN Intensive Care Units. *J Antimicrob Chemother*. 2015;70:2671-77.

Tabah A, De Waele J, **Lipman J**, Zahar JR, **Cotta MO**, Barton G, Timsit JF, **Roberts JA**; Working Group for Antimicrobial Use in the ICU within the Infection Section of the European Society of Intensive Care Medicine (ESICM). The ADMIN-ICU survey: a survey on antimicrobial dosing and monitoring in ICUs. *J Antimicrob Chemother*. 2015 Sep;70(9):2671-7.

Tayyib N, **Coyer F**, Lewis P. A two-arm cluster randomized control trial to determine the effectiveness of a pressure ulcer prevention bundle for critically ill patients. *J Nurs Scholarsh*. 2015 May;47(3):237-47.

Tsai D, **Lipman J, Roberts JA**. Pharmacokinetic/pharmacodynamic considerations for the optimization of antimicrobial delivery in the critically ill. *Curr Opin Crit Care*. 2015 Oct;21(5):412-20.

Tsai D, Jamal JA, Davis JS, **Lipman J, Roberts JA**. Interethnic Differences in Pharmacokinetics of Antibacterials. *Clin Pharmacokinet*. 2015 Mar;54(3):243-60.

Udy AA, De Waele JJ, **Lipman J**. Augmented renal clearance and therapeutic monitoring of β -lactams. *Int J Antimicrob Agents*. 2015 Apr;45(4):331-3.

Udy AA, Lipman J, Jarrett P, Klein K, Wallis SC, Patel K, Kirkpatrick C, Kruger PS, Paterson DL, Roberts MS, **Roberts JA**. Are standard doses of piperacillin sufficient for critically ill patients with augmented creatinine clearance? *Crit Care*. 2015 Jan 30;19(1):28.

Van Zyl N, **Reade MC**, Fraser JF. Experimental models of traumatic coagulopathy: a systematic review. *Shock*. 2015 Jul;44(1):16-24.

Varghese JM, **Jarrett P**, Wallis SC, **Boots RJ**, Kirkpatrick CM, **Lipman J, Roberts JA**. Are interstitial fluid concentrations of meropenem equivalent to plasma concentrations in critically ill patients receiving continuous renal replacement therapy? *J Antimicrob Chemother*. 2015 Feb;70(2):528-33.

Vellinga NA, Boerma EC, Koopmans M, Donati A, Dubin A, Shapiro NI, Pearse RM, Machado FR, Fries M, Akarsu-Ayazoglu T, Pranskunas A, Hollenberg S, Balestra G, van Iterson M, van der Voort PH, Sadaka F, Minto G, Aypar U, Hurtado FJ, Martinelli G, Payen D, van Haren F, **Holley A**, Pattnaik R, Gomez H, Mehta RL, Rodriguez AH, Ruiz C, Canales HS, Duranteau J, Spronk PE, Jhanji S, Hubble S, Chierago M, Jung C, Martin D, Sorbara C, Tijssen JG, Bakker J, Ince C; microSOAP Study Group; microSOAP Study Group. International Study on Microcirculatory Shock Occurrence in Acutely Ill Patients. *Crit Care Med*. 2015 Jan;43(1):48-56.

Venkatesh B, **Cohen J**, Cooper M. Ten false beliefs about cortisol in critically ill patients. *Intensive Care Med*. 2015 Oct;41(10):1817-9.

Venkatesh B, Imeson L, Kruger P, **Cohen J**, Jones M, Bellomo R; on behalf of the Australian and New Zealand Intensive Care Society Clinical Trials Group and the STATInS Trial Investigators. Elevated Plasma Free Cortisol Concentrations and Ratios Are Associated With Increased Mortality Even in the Presence of Statin Therapy in Patients With Severe Sepsis. *Crit Care Med*. 2015 Mar;43(3):630-5.

Walker RM, **Reade MC**. 100 years of military health experience. *Med J Aust*. 2015;202(7):347-348.

Walsh, J, Pegg J, Yerkovich S, Morris N, Mckeough Z, Comans T, **Paratz J**, Chambers, D. Health care utilisation benefits following pulmonary rehabilitation. *Respirology*. 2015;20:102-102.

Walsh J, Pegg J, Yerkovich S, Morris, N, Mckeough Z, Comans T, **Paratz J**, Chambers, D. The exercise but not quality of life response to pulmonary rehabilitation predicts reduction in health care utilization in the following two years. *Respirology*. 2015;20:014.

Winzer BM, **Paratz JD**, Whitehead JP, Whiteman DC, Reeves MM. The feasibility of an exercise intervention in males at risk of oesophageal adenocarcinoma: a randomized controlled trial. *PLoS One*. 2015 Feb 23;10(2):e0117922.

Wong G, Farkas A, Sussman R, Daroczi G, Hope WW, **Lipman J, Roberts JA**. Comparison of the accuracy and precision of pharmacokinetic equations to predict free meropenem concentrations in critically ill patients. *Antimicrob Agents Chemother*. 2015 Mar;59(3):1411-7.

Wong WT, Choi G, Gomersall CD, **Lipman J**. To increase or decrease dosage of antimicrobials in septic patients during continuous renal replacement therapy: the eternal doubt. *Curr Opin Pharmacol*. 2015 Oct;24:68-78.

2016 Publications

Abdul-Aziz MH, Abd Rahman AN, Mat-Nor MB, Sulaiman H, Wallis SC, **Lipman J, Roberts JA**, Staatz CE. Population Pharmacokinetics of Doripenem in Critically Ill Patients with Sepsis in a Malaysian Intensive Care Unit. *Antimicrob Agents Chemother.* 2016 Oct 19;60(1):206-14.

Abdul-Aziz MH, **Lipman J**, Akova M, Bassetti M, De Waele J, Dimopoulos G, **Dulhunty J**, Kaukonen K-M, Koulenti D, Martin C, Montravers P, Rello J, Rhodes A, **Starr T**, Wallis S, **Roberts JA**, on behalf of the DALI study authors. Is prolonged infusion of piperacillin/tazobactam and meropenem in critically ill patients associated with improved patient outcomes? An observation from the Defining Antibiotic Levels in Intensive care unit patients (DALI) cohort. *J Antimicrob Chemother.* 2016 Jan;71(1):196-207.

Abdul-Aziz MH, Sulaiman H, Mat-Nor MB, Rai V, Wong KK, Hasan MS, Rahman AA, Jamal JA, Wallis SC, **Lipman J**, Staatz CE, **Roberts JA**. Beta-Lactam Infusion in Severe Sepsis (BLISS): a prospective, two-centre, open-labelled randomised controlled trial of continuous versus intermittent beta-lactam infusion in critically ill patients with severe sepsis. *Intensive Care Med.* 2016 Oct;42(10):1535-45.

Adsett J, Morris N, Kuys S, Hwang R, Mullins R, Khatun M, **Paratz J**, Mudge A. Aquatic Exercise Training is Effective in Maintaining Exercise Performance in Trained Heart Failure Patients: A Randomised Crossover Pilot Trial. *Heart Lung Circ.* 2016; S1443-9506(16) 31691-2.

Alobaid AS, Brinkmann A, Frey OR, Roehr AC, Luque S, Grau S, Wong G, Abdul-Aziz MH, Roberts MS, **Lipman J, Roberts JA**. What is the effect of obesity on piperacillin and meropenem trough concentrations in critically ill patients? *J Antimicrob Chemother.* 2016 Mar;71(3):696-702.

Alobaid AS, Hites M, **Lipman J**, Taccone FS, **Roberts JA**. Effect of obesity on the pharmacokinetics of antimicrobials in critically ill patients: A structured review. *Int J Antimicrob Agents.* 2016 Apr;47(4):259-68.

Alobaid AS, Wallis SC, **Jarrett P, Starr T, Stuart J, Lassig-Smith M**, Ordóñez Mejía JL, Roberts MS, **Lipman J, Roberts JA**. Effect of Obesity on the Population Pharmacokinetics of Meropenem in Critically Ill Patients. *Antimicrob Agents Chemother.* 2016 Jul 22;60(8):4577-84.

Alobaid AS, Wallis SC, **Jarrett P, Starr T, Stuart J, Lassig-Smith M**, Mejía JL, Roberts MS, Sinnollareddy MG, Roger C, **Lipman J, Roberts JA**. Effect of Obesity on the Population Pharmacokinetics of Fluconazole in Critically Ill Patients. *Antimicrob Agents Chemother.* 2016 Oct 21;60(11):6550-6557.

Bandeshe H, Boots R, Dulhunty J, Dunlop R, Holley A, Jarrett P, Gomersall CD, **Lipman J**, Lo T, **O'Donoghue S, Paratz J**, Paterson D, **Roberts JA, Starr T**, Stephens D, **Stuart J**, Thomas J, Udy A, White H. Is inhaled prophylactic heparin useful for prevention and Management of Pneumonia in ventilated ICU patients?: The IPHIVAP investigators of the Australian and New Zealand Intensive Care Society Clinical Trials Group. *J Crit Care.* 2016 Aug;34:95-102.

Barbier F, **Lipman J**, Bonten MJ. In 2035, will all bacteria be multidrug-resistant? No. *Intensive Care Med*. 2016 Dec;42(12):2017-2020.

Bellapart J, Abi-Fares C, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, **Paratz J**, **Boots R**, Fraser JF. Cerebral microcirculation during mild head injury after a contusion and acceleration experimental model in sheep. *Brain Inj*. 2016;30(13-14):1542-1551.

Bellapart J, Cuthbertson K, Dunster K, Diab S, Platts DG, Raffel C, Gabrielian L, Barnett A, **Paratz J**, **Boots R**, Fraser J. Cerebral microcirculation during experimental normovolaemic anaemia. *Front Neurol*. 2016 Feb 2;7:6.

Bellapart J, **Roberts JA**, Appadurai V, Wallis SC, Nuñez-Nuñez M, **Boots RJ**. Pharmacokinetics of a novel dosing regimen of oral melatonin in critically ill patients. *Clin Chem Lab Med*. 2016 Mar;54(3):467-72.

Bergen PJ, Bulitta JB, Kirkpatrick CM, Rogers KE, McGregor MJ, Wallis SC, Paterson DL, **Lipman J**, **Roberts JA**, Landersdorfer CB. Effect of different renal function on antibacterial effects of piperacillin against *Pseudomonas aeruginosa* evaluated via the hollow-fibre infection model and mechanism-based modelling. *J Antimicrob Chemother*. 2016 Sep;71(9):2509-20.

Bissett B, Green M, Marzano V, Byrne S, Leditschke IA, Neeman T, **Boots R**, **Paratz J**. Reliability and utility of the Acute Care Index of Function in intensive care patients: An observational study. *Heart Lung*. 2016 Jan-Feb;45(1):10-4.

Bissett BM, Leditschke IA, Neeman T, **Boots R**, **Paratz J**. Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial. *Thorax*. 2016 Sep;71(9):812-9.

Boots R, **Bandeshe H**, **Dulhunty J**, **Dunlop R**, **Holley A**, **Jarrett P**, Gomersall C, **Lipman J**, Lo T, **O'Donoghue S**, **Paratz J**, Patterson D, **Roberts J**, Stevens D, **Stuart J**, Thomas J, **Udy A**, White H. Inhaled Prophylactic Heparin Useful for Prevention and Management of Pneumonia in Ventilated ICU Patients? *J Crit Care*. 2016 Aug;34:95-102.

Campbell J, **Coyer F**, Osborne S. The skin safety model: Reconceptualizing skin vulnerability in older patients. *J Nurs Scholarsh*. 2016 Jan;48(1):14-22.

Campbell J, **Coyer F**, Osborne S, Mudge A, Robertson I. *Candida Albicans* colonization, continence status and incontinence-associated dermatitis in the acute care setting; A pilot study. *International Wound Journal*. 2016 Aug 1; doi:10.1111/iwj.12630.

Campbell J, Gosley S, Coleman K, **Coyer F**. Combining pressure injury and incontinence-associated dermatitis prevalence surveys: An effective protocol? *Wound Practice and Research*. 2016;24(3):170-77.

Cohen J, Pretorius CJ, Ungerer JP, Cardinal J, Blumenthal A, **Presneill J**, Gatica-Andrades M, **Jarrett P**, **Lassig-Smith M**, **Stuart J**, **Dunlop R**, **Starr T**, Venkatesh B. Glucocorticoid Sensitivity Is Highly Variable in Critically Ill Patients With Septic Shock and Is Associated With Disease Severity. *Crit Care Med*. 2016 Jun;44(6):1034-41.

Cotta MO, **Roberts JA**, **Lipman J**. We need to optimize piperacillin-tazobactam dosing in critically ill patients-but how? *Crit Care*. 2016 Jun 6;20(1):163.

Cotta MO, Dulhunty JM, Roberts JA, Myburgh J, Lipman J. Should β -lactam antibiotics be administered by continuous infusion in critically ill patients? A survey of Australia and New Zealand intensive care unit doctors and pharmacists. *Int J Antimicrob Agents*. 2016 Jun;47(6):436-8.

Cristallini S, Hites M, Kabtouri H, **Roberts JA**, Beumier M, Cotton F, **Lipman J**, Jacobs F, Vincent JL, Creteur J, Taccone FS. A new regimen for continuous infusion of vancomycin in critically ill patients. *Antimicrob Agents Chemother*. 2016;60(8):4750-6.

Denny KJ, Cotta MO, Parker SL, Roberts JA, Lipman J. The use and risks of antibiotics in critically ill patients. *Expert Opin Drug Saf*. 2016 May;15(5):667-78.

Denny KJ, Lipman J. Bugs, genes, and the intensive care unit. *J Thorac Dis*. 2016 Aug;8(8):E788-90.

Dhanani J, Fraser JF, Chan HK, Rello J, Cohen J, Roberts JA. Fundamentals of aerosol therapy in critical care. *Crit Care*. 2016 Oct 7;20(1):269.

Dodds M, Fraser C, **Reade M, Lipman J.** Use of neostigmine for acute colonic pseudo-obstruction in a patient receiving dexmedetomidine. *Crit Care Resusc*. 2016 Mar;18(1):59-61.

Donovan ML, Muller MJ, Simpson C, Rudd M, **Paratz J.** Interim pressure garment therapy (4-6 mmHg) and its effect on donor site healing in burn patients: study protocol for a randomised controlled trial. *Trials*. 2016 Apr 26;17(1):214

Dorofaeff T, Bandini RM, **Lipman J, Ballot DE, Roberts JA, Parker SL.** Uncertainty in Antibiotic Dosing in Critically Ill Neonate and Pediatric Patients: Can Microsampling Provide the Answers? *Clin Ther*. 2016 Sep;38(9):1961-75.

Eley VA, Callaway LK, van Zundert AA, **Lipman J, Gallois C.** Anaesthetists' experiences with the early labour epidural recommendation for obese parturients: a qualitative study. *Anaesth Intensive Care*. 2016 Sep;44(5):620-7.

Eley VA, Callaway LK, van Zundert AA, **Lipman J, Gallois C.** Interpretation of Care Guidelines for Obese Women in Labor: Intergroup Language and Social Identity. *J Lang Soc Psychol*. 2016;doi:10.1177/0261927x16668564.

Eley V, van Zundert AAJ, **Lipman J, Callaway LK.** Anaesthetic management of obese parturients: What is the evidence supporting practice guidelines? *Anaesth Intens Care* 2016;44:552-559.

Evans O, Gowardman J, Rabbolini D, McGrail M, Rickard CM. In situ diagnostic methods for catheter related bloodstream infection in burns patients: A pilot study. *Burns*. 2016 Mar;42(2):434-40.

Farkas A, Daroczi G, Villasurda P, Dolton M, Nakagaki M, **Roberts JA.** Comparative Evaluation of the Predictive Performances of Three Different Structural Population Pharmacokinetic Models To Predict Future Voriconazole Concentrations. *Antimicrob Agents Chemother*. 2016 Oct 21;60(11):6806-6812.

Flores O, Stockton K, **Roberts JA, Muller MJ, Paratz JD.** The efficacy and safety of adrenergic blockade post burn injury: A systematic review and meta-analysis. *J Trauma Acute Care Surg*. 2016 Jan;80(1):146-55.

Gardner A, Gardner GE, **Coyer F**, Gosby H. Educating for health service reform: Clinical learning, governance and capability – A Case Study Protocol. *BMC Nursing*. 2016 May 27;15:32.

Garrouste-Orgeas M, Vinatier I, **Tabah A**, Misset B, Timsit JF. Reappraisal of visiting policies and procedures of patient's family information in 188 French ICUs: a report of the Outcomerea Research Group. *Ann Intensive Care*. 2016 Dec;6(1):82.

Hanrahan TP, Lipman J, Roberts JA. Antibiotic dosing in obesity: a BIG challenge. *Crit Care*. 2016 Aug 10;20(1):240.

Hines S, Ramsbotham J, **Coyer F**. Interventions for improving the research literacy of nurses: a systematic review. *JBI Database System Rev and Implementation Reports*; 2016 Feb;14(2):256-94.

Higgs AR, Maughon M, Ruland R, **Reade MC**. Effect of Uniform Design on the Speed of Combat Tourniquet Application: a simulation study. *Mil Med*. 2016 Aug;181(8):753-5.

Hockey CA, van Zundert A, **Paratz JD**. Does objective measurement of tracheal tube cuff pressures minimise adverse effects and maintain accurate cuff pressures? A systematic review and meta-analysis. *Anaesth & Intensive Care*. 2016; 44(5): 560-70

Hodgson CL, Bailey M, Bellomo R, Berney S, Buhr H, Denehy L, Gabbe B, Harrold M, Higgins A, Iwashyna TJ, Papworth R, Parke R, Patman S, **Presneill J**, Saxena M, Skinner E, Tipping C, Young P, Webb S; Trial of Early Activity and Mobilization Study Investigators. A Binational Multicenter Pilot Feasibility Randomized Controlled Trial of Early Goal-Directed Mobilization in ICU. *Crit Care Med*. 2016 Jun;44(6):1145-52.

Jager NG, van Hest RM, **Lipman J**, Taccone F, **Roberts JA**. Therapeutic drug monitoring of anti-infective agents in critically ill patients. *Expert Rev Clin Pharmacol*. 2016 Jul;9(7):961-79.

Labeau SO, Rello J, Dimopoulos G, **Lipman J**, Sarikaya A, Oztürk C, Vandijck DM, Vogelaers D, Vandewoude K, Blot S; EVIDENCE Research Team. The Value of E-Learning for the Prevention of Healthcare-Associated Infections. *Infect Control Hosp Epidemiol*. 2016 Sep;37(9):1052-9.

McDonald C, **Cotta MO**, Little PJ, McWhinney B, Ungerer JPJ, **Lipman J, Roberts JA**. Is high-dose β -lactam therapy associated with excessive drug toxicity in critically ill patients? *Minerva Anestesiologica*. 2016 Sep;82(9):957-65.

Milford EM, Reade MC. Comprehensive Review of Platelet Storage Methods for Use in the Treatment of Traumatic Hemorrhage. *Transfusion*, 2016;56:S140-S148.

Mitchell M, **Coyer F**, Kean S, Stone R, Murfield J, Dwan T. Patient, family-centred care interventions within the adult ICU setting: An integrative review. *Aust Crit Care*. 2016 Nov;29(4):179-193.

Mitrić G, **Udy A, Bandeshe H, Clement P, Boots R**. Variable use of amiodarone is associated with a greater risk of recurrence of atrial fibrillation in the critically ill. *Crit Care*. 2016 Apr 2;20:90.

Osthoff M, Siegemund M, Balestra G, Abdul-Aziz MH, **Roberts JA**. Prolonged administration of β -Lactam antibiotics – a comprehensive review and critical appraisal. *Swiss Med Wkly*. 2016 Oct 10;146:w14368.

Paratz JD, Boots RJ. Dealing with the critical care aftermath: where to from here? *J Thorac Dis.* 2016 Sep;8(9):2400-2402.

Parker SL, Dorofaeff T, **Lipman J**, Ballot DE, Bandini RM, Wallis SC, **Roberts JA.** Is there a role for microsampling in antibiotic pharmacokinetic studies? *Expert Opin Drug Metab Toxicol.* 2016 Jun;12(6):601-14.

Parker SL, Guerra Valero YC, **Lipman J, Roberts JA,** Wallis SC. Effect of time on recovery of plasma microsamples for the quantitative determination of vancomycin. *Bioanalysis.* 2016 Nov;8(21):2235-2242.

Parker SL, Guerra Valero YC, Roberts DM, **Lipman J, Roberts JA,** Wallis SC. Determination of Cefalothin and Cefazolin in Human Plasma, Urine and Peritoneal Dialysate by UHPLC-MS/MS: application to a pilot pharmacokinetic study in humans. *Biomed Chromatograph.* 2016 Jun;30(6):872-9.

Perner A, Gordon AC, De Backer D, Dimopoulos G, Russell JA, **Lipman J,** Jensen JU, Myburgh J, Singer M, Bellomo R, Walsh T. Sepsis: frontiers in diagnosis, resuscitation and antibiotic therapy. *Intensive Care Med.* 2016 Dec;42(12):1958-1969.

Playford EG, **Lipman J,** Jones M, Lau AF, Kabir M, Chen SC, Marriott DJ, Seppelt I, Gottlieb T, Cheung W, Iredell JR, McBryde ES, Sorrell TC. Problematic Dichotomization of Risk for Intensive Care Unit (ICU) – Acquired Invasive Candidiasis: Results Using a Risk –Predictive Model to Categorize 3 Levels of Risk From a Multicentre Prospective Cohort of Australian ICU Patients. *Clin Infect Dis.* 2016 Dec 1;63(11):1463-1469.

Ranganathan D, Naicker S, Wallis SC, **Lipman J,** Ratnajee SK, **Roberts JA.** Stability Of Antibiotics For Intraperitoneal Administration In Extraneal 7.5% Icodextrin Peritoneal Dialysis Bags (STAB STUDY). *Perit Dial Int.* 2016 Jul-Aug;36(4):421-6.

Ranse K, Yates P, **Coyer F.** End-of-life care practices of critical care nurses: A national cross-sectional survey. *Aust Crit Care.* 2016 May; 29(2):83-9.

Ranse K, Yates P, **Coyer F.** Modelling end-of-life care practices: Factors associated with critical care nurse engagement in care provision. *Intensive & Crit Care Nurs.* 2016;33:42-55.

Reade MC. A military-specific injury scoring system to aid in understanding the Golden Hour. *JAMA Surgery.* 2016;151(5):491.

Reade MC. Dexmedetomidine: what next? *Annals of Translational Medicine.* 2016;4(12):247.

Reade MC. Low dose dexmedetomidine for the prophylaxis of perioperative ICU delirium – how much evidence is enough? *J Thorac Dis.* 2016;8(11):3020-3023.

Reade MC, Bailey M, Bellomo R. Dexmedetomidine and ventilator-free time in patients with agitated delirium - Reply. *JAMA.* 2016;316(7):773-774.

Reade MC, Eastwood GM, Bellomo R, Bailey M, Bersten A, Cheung B, Davies A, Delaney A, Ghosh A, van Haren F, Harley N, Knight D, McGuinness S, Mulder J, **O'Donoghue S,** Simpson N, Young P; DahLIA Investigators; Australian and New Zealand Intensive Care Society Clinical Trials Group. Effect of Dexmedetomidine Added to Standard Care on Ventilator-Free Time in Patients With Agitated Delirium: A Randomized Clinical Trial. *JAMA.* 2016 Apr 12;315(14):1460-8.

Richardson P, **Widdicombe N**, Abdelmahmoud I. End-of Life-Issues: Withdrawal and/ or Withholding of Life Sustaining Health Care: A Comparison between Emergency Physicians and Intensive Care Specialists. *J Eme Med Int Care*. 2016;2(2):111.

Ridgeon E, Bellomo R, Myburgh J, Saxena M, Weatherall M, Jahan R, Arawwawala D, Bell S, Butt W, Camsooksai J, Carle C, Cheng A, Cirstea E, **Cohen J**, Cranshaw J, Delaney A, Eastwood G, Elliott S, Franke U, Gantner D, Green C, Howard-Griffin R, Inskip D, Litton E, MacIsaac C, McCairn A, Mahambrey T, Moondi P, Newby L, O'Connor S, Pegg C, Pope A, Reschreiter H, Richards B, Robertson M, Rodgers H, Shehabi Y, Smith I, Smith J, Smith N, Tilsley A, Whitehead C, Willett E, Wong K, Woodford C, Wright S, Young P. Validation of a classification system for causes of death in critical care: an assessment of inter-rater reliability. *Crit Care Resusc*. 2016 Mar;18(1):50-4.

Roberts DM, Ranganathan D, Wallis SC, Varghese JM, Kark A, **Lipman J, Roberts JA**. Pharmacokinetics of intraperitoneal cefalothin and cefazolin in patients being treated for peritoneal dialysis-associated peritonitis. *Perit Dial Int*. 2016 Jul-Aug;36(4):415-20.

Roberts JA, Taccone FS, **Lipman J**. Understanding PK/PD. *Intensive Care Med*. 2016 Nov;42(11):1797-1800.

Roberts JA, Abdul-Aziz MH, Davis JS, **Dulhunty JM, Cotta MO**, Myburgh J, Bellomo R, **Lipman J**. Continuous versus intermittent β -Lactam Infusion in Severe Sepsis- A Meta-analysis of Individual Patient Data from Randomized Trials. *Am J Respir Crit Care Med*. 2016 Sep 15;194(6):681-91.

Roberts JA, Choi GY, Joynt GM, Paul SK, **Deans R**, Peake S, Cole L, Stephens D, Bellomo R, Turnidge J, Wallis SC, Roberts MS, Roberts DM, **Lassig-Smith M, Starr T, Lipman J**. SaMpling Antibiotics in Renal Replacement Therapy (SMARRT): an observational pharmacokinetic study in critically ill patients. *BMC Infect Dis*. 2016 Mar 1;16:103.

Roger C, Muller L, Wallis SC, Louart B, Saissi G, **Lipman J, Lefrant JY, Roberts JA**. Population pharmacokinetics of linezolid in critically ill patients on renal replacement therapy: comparison of equal doses in continuous venovenous haemofiltration and continuous venovenous haemodiafiltration. *J Antimicrob Chemother*. 2016 Feb;71(2):464-70.

Roger C, Wallis S, Louart B, Lefrant J-V, **Lipman J, Muller L, Roberts JA**. Comparison of equal doses of continuous venovenous haemofiltration and haemodiafiltration on ciprofloxacin population pharmacokinetics in critically ill patients. *J Antimicrob Chemother*. 2016 Jun;71(6):1643-50.

Roger C, Wallis SC, Muller L, Saissi G, **Lipman J, Lefrant JY, Roberts JA**. Influence of renal replacement modalities on amikacin population pharmacokinetics in critically ill patients on continuous renal replacement therapy. *Antimicrob Agents Chemother*. 2016;60(8):4901-9.

Sartelli M, Weber DG, Ruppé E, Bassetti M, Wright BJ, Ansaloni L, Catena F, Coccolini F, Abu-Zidan FM, Coimbra R, Moore EE, Moore FA, Maier RV, De Waele JJ, Kirkpatrick AW, Griffiths EA, Eckmann C, Brink AJ, Mazuski JE, May AK, Sawyer RG, Mertz D, Montravers P, Kumar A, **Roberts JA**, Vincent JL, Watkins RR, Lowman W, Spellberg B, Abbott IJ, Adesunkanmi AK, Al-Dahir S, Al-Hasan MN, Agresta F, Althani AA, Ansari S, Ansumana R, Augustin G, Bala M, Balogh ZJ, Baraket O, Bhangu A, Beltrán MA, Bernhard M, Biffi WL, Boermeester MA, Brecher SM, Cherry-Bukowiec JR, Buynes OR, Cainzos MA, Cairns KA, Camacho-Ortiz A, Chandy SJ, Che Jusoh A, Chichom-Mefire A, Colijn C, Corcione F, Cui Y, Curcio D, Delibegovic S, Demetrashvili Z, De Simone B, Dhingra S, Diaz JJ, Di Carlo I, Dillip A, Di Saverio S, Doyle MP, Dorj G, Dogjani A, Dupont H, Eachempati SR, Enani MA, Egiev VN, Elmangory MM, Ferrada P, Fitchett JR, Fraga GP, Guessennd N, Giamarellou H, Ghnnam W, Gkiokas G, Goldberg SR, Gomes CA, Gomi H, Guzmán-Blanco M, Haque M, Hansen S, Hecker A, Heizmann WR, Herzog T, Hodonou AM, Hong SK, Kafka-Ritsch R, Kaplan LJ, Kapoor G, Karamarkovic A, Kees MG, Kenig J, Kiguba R, Kim PK, Kluger Y, Khokha V, Koike K, Kok KY, Kong V, Knox MC, Inaba K, Isik A, Iskandar K, Ivatury RR, Labbate M, Labricciosa FM, Laterre PF, Latifi R, Lee JG, Lee YR, Leone M, Leppaniemi A, Li Y, Liang SY, Loho T, Maegele M, Malama S, Marei HE, Martin-Loeches I, Marwah S, Massele A, McFarlane M, Melo RB, Negoj I, Nicolau DP, Nord CE, Ofori-Asenso R, Omari AH, Ordonez CA, Ouadii M, Pereira Júnior GA, Piazza D, Pupelis G, Rawson TM, Rems M, Rizoli S, Rocha C, Sakakhushev B, Sanchez-Garcia M, Sato N, Segovia Lohse HA, Sganga G, Siribumrungwong B, Shelat VG, Soreide K, Soto R, Talving P, Tilsed JV, Timsit JF, Trueba G, Trung NT, Ulrych J, van Goor H, Vereczkei A, Vohra RS, Wani I, Uhl W, Xiao Y, Yuan KC, Zachariah SK, Zahar JR, Zakrison TL, Corcione A, Melotti RM, Viscoli C, Viale P. Antimicrobials: a global alliance for optimizing their rational use in intra-abdominal infections (AGORA). *World J Emerg Surg.* 2016 Jul 15;11:33.

Silbert BI, Ho KM, **Lipman J, Roberts JA**, Corcoran TB, Morgan DJ, Pavey W, Mas E, Barden AE, Mori TA. Determinants of Urinary Output Response to IV Furosemide in Acute Kidney Injury: A Pharmacokinetic/Pharmacodynamic Study. *Crit Care Med.* 2016 Oct;44(10):e923-9.

Sinnollareddy M, Roberts M, **Lipman J, Lassig-Smith M, Starr T**, Robertson T, Peake S, **Roberts JA**. In Vivo Microdialysis To Determine Subcutaneous Interstitial Fluid Penetration and Pharmacokinetics of Fluconazole in Intensive Care Unit Patients with Sepsis. *Antimicrob Agents Chemother.* 2016 Feb 23;60(2):827-32.

Tabah A, Cotta MO, Garnacho-Montero J, Schouten J, **Roberts JA, Lipman J**, Tacey M, Timsit JF, Leone M, Zahar JR, De Waele JJ; Working Group for Antimicrobial Use in the ICU. A Systematic Review of the Definitions, Determinants, and Clinical Outcomes of Antimicrobial De-escalation in the Intensive Care Unit. *Clin Infect Dis.* 2016 Apr 15;62(8):1009-17.

Tabah A, Lipman J, Roberts JA. Are new gentamicin dosing guidelines suitable for achieving target concentrations in patients with sepsis and septic shock? *Anaesth Crit Care Pain Med.* 2016 Oct;35(5):311-312.

Tayyib N, **Coyer F**. Effectiveness of pressure ulcer prevention strategies for adult patients in intensive care units: A systematic review. *Worldview Evid Based Nurs.* 2016 Dec;13(6):432-444.

Tayyib N, **Coyer F**, Lewis P. Pressure Injury Prevention in a Saudi Arabian Intensive Care Unit: Registered Nurse Attitudes Toward Prevention Strategies and Perceived Facilitators and Barriers to Evidence Implementation. *J Wound Ostomy Continence Nurs.* 2016 Jul-Aug;43(4):369-74.

Tayyib N, **Coyer F**, Lewis P. Saudi Arabian adult intensive care unit pressure ulcer incidence and risk factors: a prospective cohort study. *Int Wound J*. 2016 Oct;13(5):912-9.

Tayyib N, **Coyer F**, Lewis, P. Implementation of pressure ulcer prevention bundle in an adult intensive care. *Intensive and Crit Care Nurs*. 2016 Dec;37:27-36.

Tong SY, Nelson J, Paterson DL, Fowler VG Jr, Howden BP, Cheng AC, Chatfield M, **Lipman J**, Van Hal S, O'Sullivan M, Robinson JO, Yahav D, Lye D, Davis JS; CAMERA2 study group and the Australasian Society for Infectious Diseases Clinical Research Network. CAMERA2 - combination antibiotic therapy for methicillin-resistant *Staphylococcus aureus* infection: study protocol for a randomised controlled trial. *Trials*. 2016 Mar 31;17:170.

Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC, **Lipman J, Roberts JA**. Total and unbound ceftriaxone pharmacokinetics in critically ill Australian Indigenous patients with severe sepsis. *Int J Antimicrob Agents*. 2016 Dec;48(6):748-752.

Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC; **Lipman J, Roberts JA**. Pharmacokinetics of piperacillin in critically ill Australian Indigenous patients with severe sepsis. *Antimicrob Agents Chemother*. 2016;60(12):7402-7406.

Tsai D, Stewart P, Goud R, Gourley S, Hewagama S, Krishnaswamy S, Wallis SC, **Lipman J, Roberts JA**. Optimising meropenem dosing in critically ill Australian Indigenous patients with severe sepsis. *Int J Antimicrob Agents*. 2016 Nov;48(5):542-546.

Tutticci N, **Coyer F**, Lewis P, Ryan M. High fidelity simulation: Descriptive analysis of student learning styles. *Clin Simul Nurs*. 2016;12(11):511-521.

Tutticci N, Lewis P, **Coyer F**. Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation: A pilot study. *Nurse Educ Pract*. 2016 May;18:52-9.

Ullman A, Keogh S, **Coyer F**, Long D, New K, Rickard C. 'True Blood' The Critical Care Story: An audit of blood sampling practice across adult, paediatric and neonatal intensive care settings. *Aust Crit Care*. 2016 May;29(2):90-5.

Van Zyl N, **Milford EM**, Diab S, Dunster K, McGiffen P, Rayner SG, **Reade MC**, Fraser JF, Staib A. Activation of the protein C pathway and endothelial glycocalyx shedding is associated with coagulopathy in an ovine model of trauma and hemorrhage. *J Trauma Acute Care Surg*. 2016;81(4):674-684.

Veringaa A, Sturkenboom M, Dekkers B, Kostera R, **Roberts J**, Peloquind C, Touwa D, Alffenaar J. LC-MS/MS for Therapeutic Drug Monitoring of anti-infective drugs. *TrAC Trends in Analytical Chemistry*. 2016; V84 Part B 34-40.

Vermeir J, **Holley A, Lipman J**. Not Out of the Woods - A Wife's Perspective: Bedside Communication. *Intensive Care Med*. 2016 Mar;42(3):446-7.

Williams JM, Greenslade JH, Chu K, Brown AF, **Lipman J**. Severity Scores in Emergency Department Patients With Presumed Infection: A Prospective Validation Study. *Crit Care Med*. 2016 Mar;44(3):539-47.

Winearls J, **Reade MC**, Miles H, Bulmer A, Campbell D, Gorlinger K, Fraser J. Targeted Coagulation Management in Severe Trauma: The Controversies and the Evidence. *Anesth and Analg*. 2016;123(4):910-924.

Woodruff TM, Wu MC, Morgan M, Bain NT, Jeanes A, **Lipman J**, Ting MJ, Boyd AW, Taylor SM, Coulthard MG. EPHA4-FC treatment reduces ischemia/reperfusion-induced intestinal injury by inhibiting vascular permeability. *Shock*. 2016 Feb;45(2):184-91.

Zelenitsky SA, Lawson C, Calic D, Ariano RE, **Roberts JA**, **Lipman J**, Zhanel GG. Integrated pharmacokinetic-pharmacodynamic modelling to evaluate antimicrobial prophylaxis in abdominal surgery. *J Antimicrob Chemother*. 2016 Oct;71(10):2902-8.

Zhang L, **Gowardman J**, Morrison M, Runnegar N, Rickard CM. Microbial biofilms associated with intravascular catheter-related bloodstream infections in adult intensive care patients. *Eur J Clin Microbiol Infect Dis*. 2016 Feb;35(2):201-5.

Publications in Press

Abdul-Aziz MH, **Lipman J, Roberts JA**. Antibiotic dosing for multidrug resistant (MDR) pathogen pneumonia. *Curr Opin Inf Dis*. In Press

Alobaid AS, Wallis SC, **Jarrett P, Starr T, Stuart J, Lassig-Smith M**, Ordonez J, Roberts MS, Roger C, Udy AA, **Lipman J, Roberts JA**. Population pharmacokinetics of piperacillin in non-obese, obese and morbidly-obese critically ill patients. *Antimicrob Agents Chemother*; In Press

Coyer F, Gardner A, Doubrovsky A. An interventional skin care protocol (InSPIRE) to reduce incontinence-associated dermatitis in intensive care patients; a before and after study. *Intensive and Crit Care Nurs*. In Press

Coyer F, Miles S, Fulbrook P, Gosley S, Sketcher-Baker K, Cook JL, Whitmore J. Pressure injury prevalence in intensive care versus non-intensive care patients: A state-wide comparison. *Aust Crit Care*. In Press

Eley VA, Callaway L, van Zundert AA, **Lipman J**, Gallois C. Interpretation of Care Guidelines for Obese Women in Labour: Intergroup Language and Social Identity. *J Lang Soc Psychol*. In Press

Flint A, Aubron C, Bailey M, Bellomo R, Pilcher D, Cheng AC, Hegarty C, **Reade MC**, McQuilten Z. Duration of platelet storage and outcomes of critically ill patients: a retrospective analysis. *Transfusion*. In Press

French CJ, Glassford NJ, Gantner D, Higgins AM, Cooper DJ, Nichol A, Skrifvars MB, Imberger G, **Presneill J**, Bailey M, Bellomo R. Erythropoiesis-stimulating Agents in Critically Ill Trauma Patients: A Systematic Review and Meta-analysis. *Ann Surg*. In Press

Harris P, McNamara J, Lye D, Davis J, Bernard L, Cheng A, Doi Y, Fowler V, Kaye K, Leibovici L, **Lipman J**, Llewelyn M, Munoz-Price LS, Paul M, Peleg A, Rodriguez-Baño J, Rogers B, Seifert H, Thamlikitkul V, Thwaites G, Tong S, Turnidge JD, Utili R, Webb S, Paterson D. Proposed primary endpoints for use in clinical trials that compare treatment options for bloodstream infection in adults: a consensus definition. *Clin Microbiol Infec*. In Press

Kollef MH, Bassetti M, Francois B, Burnham J, Dimopoulos G, Garnacho-Montero J, **Lipman J**, Luyt C-E, Nicolau DP, Postma MJ, Torres A, Welte T, Wunderink R. The ICM research agenda on multidrug-resistant bacteria, antibiotics and stewardship. *Intensive Care Med*. In Press

König C, Braune S, **Roberts JA**, 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. *J Antimicrob Chemother*. In Press

Lott A, Wall D, Skoien R, McGregor, **Holley A**. Perioperative bleed from SMV to abdominal wall portosystemic shunt via small bowel adhesion. *ANZ J Surg*. In Press

Naik BI, Roger C, Ikeda K, Todorovic MS, Wallis SC, **Lipman J, Roberts JA**. Comparative total and unbound pharmacokinetics of cefazolin administered by bolus versus continuous infusion in patients undergoing major surgery: a randomized controlled trial. *Br J Anaesth*. In Press

Paruk F, Sime F, **Lipman J, Roberts JA**. Dosing antibiotic prophylaxis during cardiopulmonary bypass- a higher level of complexity? A structured review. *Int J Antimicrob Agents*. In Press

Parker SL, Adnan S, Ordóñez Meija JL, Paterson DL, **Lipman J, Roberts JA**, Wallis SC. An UHPLC-MS/MS method for the simultaneous determination of ampicillin and sulbactam in human plasma and urine. *Bioanalysis*. In Press

Pretorius CJ, **Reade MC**, Warnholtz C, McWhinney B, Phua MM, **Lipman J**, Ungerer JJP. Pyroglutamate (5-oxoproline) measured with hydrophilic interaction chromatography (HILIC) tandem mass spectrometry in acutely ill patients. *Clinica Chimica Acta*. In Press

Roberts JA, Kumar A, **Lipman J**. Right Dose, Right Now: Customized Drug Dosing in the Critically Ill. *Crit Care Med*. In Press

Roger C, Wallis SC, Muller L, Saissi G, **Lipman J**, Bruggemann RJ, Lefrant JY, **Roberts JA**. Caspofungin population pharmacokinetics in critically ill patients undergoing continuous veno-venous haemofiltration or haemodiafiltration. *Clin Pharmacokinet*. In Press

Silbert BI, Ho KM, **Lipman J, Roberts JA**, Corcoran TB, Morgan DJ, Pavey W, Mas E, Barden AE, Mori TA. Does Furosemide Increase Oxidative Stress in Acute Kidney Injury. *Antioxid Redox Signal*. In Press

Sime FS, Johnson A, Whalley S, Santoyo-Castelazo A, Montgomery AB, Walters KA, **Lipman J**, Hope WW, **Roberts JA**. Pharmacodynamics of aerosolized fosfomycin and amikacin against resistant clinical isolates of *Pseudomonas aeruginosa* and *Klebsiella pneumoniae* in a hollow-fiber infection model: Experimental Basis for Combination Therapy. *Antimicrob Agents Chemother*. In Press

Sime F, **Roberts JA**. Antibiotic Dosing In Critically Ill Patients Receiving Renal Replacement Therapy. *Exp Rev Clin Pharmacol*. In Press

Solé-Lleonart C, Rouby JJ, Blot S, Poulakou G, Chastre J, Palmer LB, Bassetti M, Luyt CE, Pereira JM, Riera J, Felton T, **Dhanani J**, Welte T, Garcia-Alamino JM, **Roberts JA**, Rello J. Nebulization of Anti-infective Agents in Invasively Mechanically Ventilated Adults: a systematic review and meta-analysis. *Anesthesiology*. In Press

Tayyib N, **Coyer F**. Translating pressure ulcer prevention bundle into intensive care nursing practice; overlying a care bundle approach with a model of research implementation. *J Nurs Care Qual*. In Press

Tutticci N, **Coyer F**, Lewis P, **Ryan M**. Validation of a reflective thinking instrument for third year undergraduate nursing students participating in a high fidelity simulation. *Reflective Practice: International and Multidisciplinary Perspectives*. In Press

Udy AA, **Dulhunty JM**, **Roberts JA**, Davis JS, Webb SAR, Bellomo R, Gomersall C, Shirwadkar C, Eastwood GM, Myburgh J, Paterson DL, **Starr T**, Paul SK, **Lipman J**. The association between augmented renal clearance (ARC) and clinical outcomes in patients receiving beta-lactam antibiotic therapy by continuous or intermittent infusion: A nested cohort study of the BLING-II randomized placebo controlled clinical trial. *Int J Antimicrob Agents*. In Press

Udy AA, **Jarrett P**, **Lassig-Smith M**, **Stuart J**, **Starr T**, **Dunlop R**, **Deans R**, **Roberts JA**, Senthuran S, **Boots RJ**, Bisht K, Bulmer A, **Lipman J**. Augmented renal clearance (ARC) in traumatic brain injury (TBI): A single-center observational study of atrial natriuretic peptide, cardiac output, and creatinine clearance. *J Neurotrauma*. In Press

Udy AA, Vladic C, Saxby ER, **Cohen J**, Delaney A, Flower O, Anstey M, Bellomo R, Cooper DJ, Pilcher DV; Australian and New Zealand Intensive Care Society Centre for Outcome and Resource Evaluation. Subarachnoid Hemorrhage Patients Admitted to Intensive Care in Australia and New Zealand: A Multicentre Cohort Analysis of In-Hospital Mortality Over 15 Years. *Crit Care Med*. In Press

Williams J, Greenslade J, McKenzie J, Chu K, Brown A, **Lipman J**. SIRS, qSOFA and organ dysfunction: insights from a prospective database of emergency department patients with infection. *Chest*. In Press.

Williams JM, Greenslade JH, Dymond CA, Chu K, Brown AF, **Lipman J**. Characteristics, treatment and outcomes for all emergency department patients fulfilling criteria for septic shock: a prospective observational study. *Eur J Emerg Med*. In Press

Book Chapters Published and In Press 2015

Thomas A, Golper T, Udy A, **Lipman J** (2015). Drug Dosing in Acute Kidney Injury. In Turner N, Lameire N, Goldsmith D, Winearls C, Himmelfarb J, and Remuzzi G (Eds). *Oxford Textbook of Clinical Nephrology 4th Edition*. Oxford University Press.

Grealy B, **Coyer F** (2015). Chapter 6 Essential Nursing Care. In Aitken L, Chaboyer W and Marshall A (Eds). *ACCCN's Critical Care Nursing 3rd Ed*. Elsevier, Sydney.

Lumsden-Steel M, **Reade MC** (2015). Temperature management in trauma. In Vincent JL (Ed). *Annual Update in Intensive Care and Emergency Medicine*. Berlin: Springer-Verlag, 2015;481-493.

Reade MC (2015). Specialised retrieval systems. In Evans C, Creaton A, Kennedy M (Eds). *The Oxford Handbook of Retrieval Medicine*. Oxford: Oxford University Press. In Press.

Book Chapters Published and In Press 2016

Cohen J. Adrenal Insufficiency. In *Oh's Intensive Care Manual 8th Edition*. In Press.

Cohen J. The Genetic Basis of Sepsis. In *Oh's Intensive Care Manual 8th Edition*. In Press.

Boots R, Lipman J (2016). Diagnosis, assessment, and management of tetanus, rabies, and botulism. In Webb A, Angus D, Finfer S, Gattinoni L, Singer M (Eds). *Chapter 64 Oxford Textbook of Critical Care 2nd*. Oxford University Press, Oxford, UK.

Cotta MO, Roberts JA (2016). Pharmacokinetic and pharmacodynamic principles of antimicrobials. In Laundry M, Gilchrist M, Whitney L (Eds). *Antimicrobial Stewardship – A practical guide to the introduction, maintenance and development of an effective program*. Oxford University Press, Oxford, UK.

Denny KJ, Lipman J, Roberts JA. Cephalothin and cefazolin. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). *Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition*. ASM Press, Washington DC, USA. In Press.

Finn PC, **Reade MC.** Bleeding Emergencies. In *Rapid Response Systems: A Practical Guide*. New York, Oxford University Press USA. In Press.

Geddes AM, Gould IM, **Roberts JA**, Grayson ML, Cosgrove SE. Ampicillin and Amoxicillin. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). *Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition*. ASM Press, Washington DC, USA. In Press.

Geddes AM, Gould IM, Trubiano JA, **Roberts JA**, Grayson ML. Benzylpenicillin (Penicillin G). In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). *Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition*. ASM Press, Washington DC, USA. In Press.

Geddes AM, Gould IM, **Roberts JA.** Phenoxyphenicillins. In Grayson ML, Crowe SM, McCarthy JS, Mills J, Mouton JW, Norrby SR, Paterson DL, Pfaller MA (Eds). *Kucers' The Use of Antibiotics Seventh Edition: A Clinical Review of Antibacterial, Antifungal and Antiviral Drugs, 7th edition*. ASM Press, Washington DC, USA. In Press.

Holley A. Management of the Critically Ill Burns Patient. In S Hutchings (Ed). *Trauma & Combat Critical Care in Clinical Practice*. In Press.

Jamal JA, **Roberts JA** (2016). Aminoglycoside dosing in obesity. In Zaidi STR, **Roberts JA** (Eds). *Drug Dosing in Obesity, Volume 1: Antimicrobials*. Springer, Switzerland.

Jamal JA, **Roberts JA** (2016). Polyene antifungals. In Zaidi STR, **Roberts JA** (Eds). *Drug Dosing in Obesity, Volume 1: Antimicrobials*. Springer, Switzerland.

Lipman J (2016). Tetanus, rabies, botulism. In Webb AR, Angus D, Finfer S, Gattinoni L (Eds). *Oxford Textbook of Critical Care, 2nd Edition*. Oxford UK: Oxford University Press.

Lipman J. Tetanus. Chapter 54. In AD Bertson, N Soni (Eds). *Oh's Intensive Care Manual 8th Edition*. Eds Butterworth Heinemann Elsevier. In Press.

Lipman J. Principles of Antibiotic Use. Chapter 73. In AD Bertson, N Soni (Eds). *Oh's Intensive Care Manual 8th Edition*. Butterworth Heinemann Elsevier. In Press.

Mahoney A, **Reade MC**. Making the best use of simulation training in critical care medicine. In Vincent JL (Ed). *Annual Update in Intensive Care and Emergency Medicine 2017*. Berlin: Springer-Verlag. In Press.

Paratz J, Ntoumenopoulos G, Jones A (2016). Management of the Critically Ill Patient. In Denehy L (Ed). *Cardiopulmonary Physical Therapy*. Churchill Livingstone Elsevier, London.

Plaza A, **Paratz J** (2016). Management Acute Burn Patient. In Denehy L (Ed). *Cardiopulmonary Physical Therapy*, Churchill Livingstone Elsevier, London.

Reade MC. Chest injury and ventilator strategies following severe traumatic injury. In Hutchings S (Ed). *Frontline Critical Care*. London, Springer. In Press.

Reade MC. Kirkman E. Blast lung. In Hutchings S (Ed). *Frontline Critical Care*. London. Springer. In Press.

Reade MC. Sedation and Analgesia in the ICU. In Firth J, Conlon C, Cox C (Eds). *Oxford Textbook of Medicine*. Oxford, Oxford University Press. In Press.

Reade MC. Advanced cardiovascular support. In Evans C, Creaton A, Kennedy M (Eds). *The Oxford Handbook of Retrieval Medicine*. Oxford: Oxford University Press. In Press.

Reade MC (2016). Thoracic Trauma and Management of Ventilation in the Critically Injured Patient. In Hutchings SD (Ed). *Trauma and Combat Critical Care in Clinical Practice*. London, Springer.

Reade MC (2016), Kirkman E. Management of Blast Related Injuries. In Hutchings SD (Ed). *Trauma and Combat Critical Care in Clinical Practice*. London. Springer.

Sinnollareddy MG, **Roberts JA** (2016). Pharmacodynamic considerations in critically ill patients. In Rotschafer JC, Andes DR, Rodvold KA (Eds). *Antibiotic Pharmacodynamics*. Springer, New York.

Research Projects 2015

Clinical Research

Exercise physiology post critical illness

Principal Investigators: **J Paratz, R Boots**, K Stockton

Practices and complications associated with central venous and arterial catheterization in a burns population compared with a non burns group

Principal Investigators: **J Gowardman, J Paratz**, M Muller

Exogenous melatonin in critically ill patients: the impact on sleep and ICU psychosis

Principal Investigator: **J Bellapart**

IMPOSE: Improving outcomes in sepsis – a multidisciplinary outpatient follow up

Principal Investigators: **J Paratz, R Boots**, J Kenardy, G Mitchell, T Comans, **F Coyer**, P Thomas

Assessment of the microcirculation in shocked critically unwell patients during the first 24 hours of resuscitation (MICROSCAN)

Principal Investigators: **A Holley, J Paratz, R Boots**

Does adrenergic blockade improve outcome in adult burns?

Principal Investigators: **J Paratz**, M Muller, **J Roberts**, J Younger, **J Dhanani**, K Towsey

eStimCycle: Electrical stimulation and cycling in the sepsis patine. A double blinded randomized controlled trial

Principal Investigators: **M Reade, J Paratz**, S Berney

Detection of secretions in ventilated patients waveform analysis

Principal Investigators: **M Reade, J Paratz**, P Thomas, A Jones

Cortisol, metabolic and psychological outcomes in burns patients, a double blinded randomized controlled trial

Principal Investigators: **M Reade, J Paratz**, O Flores, M Muller, **J Cohen**

Mortality and cardiovascular risk in the burns survivor

Principal Investigators: **M Reade, J Paratz**, M Muller, S Paul, J Youngman

Inhalation injury and right heart failure in burns

Principal Investigators: **J Paratz, R Boots, G Pang, R Hegde**, M Muller, J Younger

A pilot multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding: The CLIP Trial

Principal Investigators: **M Reade, A Holley, R Deans**

A randomised, double blind, placebo controlled, phase 3 study to assess the safety and efficacy of ART123 in subjects with severe sepsis and coagulopathy (ART-123)

Principal Investigator: **J Gowardman**

A comparison of the total and free Cortisol response to a standard short synacthen test in patients with traumatic brain injury

Principal Investigator: **J Cohen**

A prospective, randomised, double blind, multicentre, phase 3 study to assess the safety and efficacy of intravenous ceftolozane/tazobactam compared with meropenem in adult patients with ventilated nosocomial pneumonia (CUBIST VAP)

Principal Investigator: **J Gowardman**

Low molecular weight heparin in critically ill trauma patients: a dosing study (ENACT)

Principal Investigator: **S O'Donoghue**

Intravascular device administration sets: Replacement after Standard Versus Prolonged use (RSVP)

Principal Investigator: **J Gowardman**

A multi-centre randomised double blinded phase III trial of the effect of standard issue red blood cell blood units on mortality compared to freshest available red blood cell units (TRANSFUSE)

Principal Investigator: **M Reade**

Adjunctive corticosteroid treatment in critically ill patients with septic shock: the ADRENAL trial

Principal Investigator: **J Cohen**

Asthma Management in ICU Study (AMIIS)

Principal Investigator: **R Boots**

Sedation Practices In Intensive Care Evaluation (SPICE III): A prospective multicentre randomised controlled trial of early goal-directed sedation compared with standard care in mechanically ventilated critically ill patients

Principal Investigator: **S O'Donoghue**

An Investigation of the Pharmacokinetics of Piperacillin/Tazobactam, Meropenem and Fluconazole in Critically Ill Obese Patients

Principal Investigators: A Alobaid, **J Lipman**, **J Roberts**

SMARRT – SaMpling Antibiotics in Renal Replacement Therapy

Principal Investigator: **J Roberts**

Relative hypotension and acute kidney injury in patients with shock: a prospective multicenter cohort study (REACT Shock)

Principal Investigator: **J Lipman**

Completed Projects Awaiting Results

Protective manual hyperinflation is safer and as effective as current practices

Principal Investigators: **J Paratz**, **J Lipman**, **R Boots**

Antibiotic dosing in the “at risk” critically ill patient

Principal investigators: **J Lipman**, **J Roberts**, **A Udy**, **R Boots**

Projects Completed in 2015

BLING II: A phase II randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients

Principal Investigators: **J Lipman, J Dulhunty, J Roberts**

Inhaled Prophylactic Heparin In Ventilator Associated Pneumonia (IPHIVAP)

Principal Investigators: **R Boots, J Paratz, J Roberts**

Assessment of functional adrenal status in patients with septic shock (PIRATE Study)

Principal Investigator: **J Cohen**

A randomised placebo-controlled trial of dexmedetomidine for agitation and delirium in the intensive care unit (Dexmedetomidine to Lessen ICU Agitation)

Principal Investigator: **M Reade**

Prospective surveillance of invasive fungal infections in Australian intensive care units

Principal Investigators: **J Lipman, G Playford**

The Paracetamol After Traumatic Brain Injury Study: The PARITY Study

Principal Investigator: **J Gowardman**

Dose optimisation of fluconazole in critically ill patients

Principal Investigator: **J Roberts**

Research Projects 2016

Clinical Research

The Abdominal Sepsis Study: Epidemiology of Etiology and Outcome

Principal Investigators: D Koulenti, **T Starr**

Validation of microsampling versus traditional blood sampling for antibiotic pharmacokinetics

Principle Investigator: **VA Chikatamarla**

A Phase 3, Placebo-Controlled, Randomized, Double-Blind, Multicenter Study of LJPC-501 in Patients with Catecholamine-Resistant Hypotension (CRH)

Principal Investigators: **J Cohen, J Lipman**

Optimising benzylpenicillin dosing for critically ill patients with severe pneumonia

Principal Investigator: **MO Cotta**

Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage

Principal Investigator: **MO Cotta**

Recognising Sepsis in Patients with the Systemic Inflammatory Response Syndrome Trial (RESIST)

Principal Investigators: **K Denny, J Cohen, J Lipman, J Dulhunty, J Paratz**

Detailed assessment of risks and benefits of inferior vena cava filters on patients with complicated injuries (the Da Vinci Trial)

Principal Investigator: **A Holley**

A Potential Taste Receptor Association with Myocardial Depression Susceptibility in Treated Sepsis

Principal Investigator: **J Lipman**

Pre-hospital Anti-fibrinolytics for Traumatic Coagulopathy and Haemorrhage (The PATCH Study)

Principal Investigator: **M Reade**

A multi-centre randomised, double-blind, placebo-controlled trial of pre-hospital treatment with tranexamic acid for severely injured patients at risk of acute traumatic coagulopathy

Principal Investigator: **M Reade**

ADP-Trauma study: A randomised controlled clinical trial of Augmented Dosing of Piperacillin-tazobactam in Trauma patients with suspected or confirmed infection

Principal Investigator: **J Roberts**

The prognostication value of plasma Endothelin-1 in Subarachnoid haemorrhage

Principal Investigator: **J Bellapart**

Exercise physiology post critical illness

Principal Investigators: **J Paratz, R Boots, K Stockton**

Practices and complications associated with central venous and arterial catheterization in a burns population compared with a non burns group

Principal Investigators: **J Gowardman, J Paratz, M Muller**

IMPOSE: Improving outcomes in sepsis – a multidisciplinary outpatient follow up

Principal Investigators: **J Paratz, R Boots, J Kenardy, G Mitchell, T Comans, F Coyer, P Thomas**

Assessment of the microcirculation in shocked critically unwell patients during the first 24 hours of resuscitation (MICROSCAN)

Principal Investigators: **A Holley, J Paratz, R Boots**

Does adrenergic blockade improve outcome in adult burns?

Principal Investigators: **J Paratz, M Muller, J Roberts, J Younger, J Dhanani, K Towsey**

eStimCycle: Electrical stimulation and cycling in the sepsis patient. A double blinded randomized controlled trial

Principal Investigators: **J Paratz, S Berney**

Detection of secretions in ventilated patients waveform analysis

Principal Investigators: **J Paratz, P Thomas, A Jones**

Cortisol, metabolic and psychological outcomes in burns patients - a double blinded randomized controlled trial

Principal Investigators: **J Paratz, O Flores, M Muller, J Cohen**

Mortality and cardiovascular risk in the burns survivor

Principal Investigators: **J Paratz, M Muller, S Paul, J Youngman**

Inhalation injury and right heart failure in burns

Principal Investigators: **J Paratz, R Boots, G Pang, R Hegde, M Muller, J Younger**

A pilot multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding: The CLIP Trial

Principal Investigators: **M Reade, A Holley, R Deans**

A randomised, double blind, placebo controlled, phase 3 study to assess the safety and efficacy of ART123 in subjects with severe sepsis and coagulopathy (ART-123)

Principal Investigator: **J Gowardman**

A prospective, randomised, double blind, multicentre, phase 3 study to assess the safety and efficacy of intravenous ceftolozane/tazobactam compared with meropenem in adult patients with ventilated nosocomial pneumonia (Cubist VAP)

Principal Investigator: **J Gowardman**

Adjunctive corticosteroid treatment in critically ill patients with septic shock: the ADRENAL trial

Principal Investigator: **J Cohen**

Asthma Management in ICU Study (AMIIS)

Principal Investigator: **R Boots**

Sedation Practices In Intensive Care Evaluation (SPICE III): A prospective multicentre randomised controlled trial of early goal-directed sedation compared with standard care in mechanically ventilated critically ill patients

Principal Investigator: **S O'Donoghue**

Relative hypotension and acute kidney injury in patients with shock: a prospective multicenter cohort study (REACT Shock)

Principal Investigator: **J Lipman**

Completed Projects Awaiting Results

Exogenous melatonin in critically ill patients: the impact on sleep and ICU psychosis

Principal Investigator: **J Bellapart**

A multi-centre randomised double blinded phase III trial of the effect of standard issue red blood cell blood units on mortality compared to freshest available red blood cell units (TRANSFUSE)

Principal Investigator: **M Reade**

Low molecular weight heparin in critically ill trauma patients: a dosing study (ENACT)

Principal Investigator: **S O'Donoghue**

SMARRT – SaMpling Antibiotics in Renal Replacement Therapy

Principal Investigator: **J Roberts**

Projects Completed in 2016

Intravascular device administration sets: Replacement after Standard Versus Prolonged use (RSVP)

Principal Investigator: **J Gowardman**

A comparison of the total and free Cortisol response to a standard short synacthen test in patients with traumatic brain injury

Principal Investigator: **J Cohen**

An Investigation of the Pharmacokinetics of Piperacillin/Tazobactam, Meropenem and Fluconazole in Critically Ill Obese Patients

Principal Investigators: A Alobaid, **J Lipman, J Roberts**

Published Proceedings 2015

Presneill J. Australian Commission on Safety and Quality in Health Care. National Standard for User-applied Labelling of Injectable Medicines, Fluids and Lines. Sydney: ACSQHC, 2015.

Reade MC. ADF Trauma Clinical Practice Guidelines – about time? J Mil Veterans Health. 2015;23(4):10-11.

Reade MC. Application of clinical governance in the Role 2E environment: the 2nd General Health Battalion experience. J Mil Veterans Health. 2015;23(4):11-12.

Reade MC, Holley A. Hyperacute procoagulopathy in trauma: what, why, where, when, how to identify it & what to do about it. ANZ J Surg. 2015;85(Suppl.1):79.

Reade MC, Holley A. Modified Platelet Products: Refrigerated, Cryopreserved, "Artificial". ANZ J Surg. 2015;85(Suppl.1):79.

Reade MC, Holley A. UK MERT: Bringing the ED to the patient does make a difference. ANZ J Surg. 2015;85(Suppl.1):78.

Royse A, **Reade MC**, Johnson L, Marks D. CLIP (cryopreserved vs. liquid platelets for surgical bleeding): protocol for a randomised controlled trial. Heart Lung Circ. 2015;e57-e58.

Van Zyl N, Milford E, Diab S, Dunster K, **Reade MC**, Fraser J, Staib A. Acute traumatic coagulopathy in an ovine model of trauma and haemorrhage. Emerg Med Australas. 2015;27(S1):51-52.

Published Proceedings 2016

Hann A, **Presneill J**, Wall D, **Reade MC**. Utility of digital rectal examination following trauma: a retrospective study. ANZ J Surg.2016;86(Suppl.1):165.

Phua MM, Pretorius C, McWhinney B, Ungerer J, **Lipman J**, **Reade MC**. Confirming hypothesised associations of increased pyroglutamic acid in a mixed sample of critically ill patients: an observational cohort study. Anaesth Intensive Care. 2016. In Press

Reade MC. A bibliometric analysis of military trauma registry publications. J Mil Veterans Health. 2016;24(4):9.

Reade MC. New ANZCOR guidelines for traumatic cardiac arrest: building on military experience. J Mil Veterans Health. 2016; 24(4):39-40.

Shehabi Y, Bellomo R, Bailey M, Kadiman S, Ti LK, **Reade MC**, Howe B, Green M, McArthur C, Seppelt IM, Webb S, Alias AB, Mukherjee A, Khoo M. Early pain, agitation, depth of sedation and mobilization as predictors of 180-day mortality: A multinational prospective longitudinal cohort study (The SPICE-PAD Study). Intensive Care Med. 2016. In Press

Van Zyl N, Milford EM, Diab S, Dunster K, McGiffen P, Rayner SG, **Reade MC**, Fraser JF, Staib A. Activation of the protein C pathway and endothelial glycocalyx shedding is associated with coagulopathy in an ovine model of trauma and haemorrhage. ANZ J Surg, 2016;86(Suppl.1):162.

Invited Papers and Presentations 2015

Cohen J. Social Media And Critical Care Conference, Chicago, USA, 2015.

Cohen J. Invited Faculty. Wellington Final Fellowship Examination Course. New Zealand, 2015.

Coyer F. Invited Expert Speaker. Translating evidence into intensive care nursing practice to reduce pressure injuries: the SUSTAIN study. Pressure Injury Prevention Workshop. Patient Safety and Quality Improvement Service. Brisbane, November 2015.

Coyer F. Invited Expert Speaker. Translating evidence into intensive care nursing practice to reduce pressure injuries: the SUSTAIN study. The Australian Wound Management Association (AWMA) Education Seminar. Brisbane, November 2015.

Coyer F. Invited Expert Speaker. Best practice principles for incontinence-associated dermatitis (IAD). Teleflex Seminar. Brisbane, July 2015.

Coyer F. Invited Expert Speaker. Best practice principles for incontinence-associated dermatitis (IAD). Teleflex Seminar. Sydney, July 2015.

Coyer F. Invited Expert Speaker. Understand the primary risk factors for IAD in the Critical Care setting. 3M Critical and Chronic Care Solutions Division. Sydney, May 2015.

Coyer F. Invited expert speaker. Incontinence-associated dermatitis (IAD) in the critical care setting. National Pressure Ulcer Advisory Panel Biennial conference; Orlando, February 2015. Sponsored by 3M Wound and Skin Care – Skin Care KOL Consultation.

Coyer F. Consultation. 3M Wound and Skin Care – Skin Care KOL Consultation. St Paul, Minneapolis, USA, February 2015.

Holley A. Invited speaker. Pro - Con Debate. ICP monitoring in trauma is last season. Con. Against Prof. John Myburgh. Social Media and Critical Care (SMACC). Chicago, June 2015.

Holley A. Invited speaker. Time and Tide Wait for No Man. New South Wales. Military Symposium. Sydney, November 2015.

Lipman J. International Association of Student Surgical Societies' (IASSS) Surgical Symposium. Brisbane, July 2015.

Lipman J. Invited speaker. Portuguese Critical Care Congress. Portugal, March 2015.

Lipman J. Invited speaker. Chinese Critical Care Society. China, September 2015.

Lipman J. Invited speaker. 28th Annual European Society of Intensive Care Medicine Meeting. Berlin, October 2015.

Milford EM, **Reade MC.** Australian RDCR Research Update (Coagulopathy Models, TXA Clinical Trial and Cryopreserved Platelet Trials). Remote Damage Control Resuscitation Symposium. Bergen, 2015.

Paratz J. Invited Speaker. Optimization of the intensive care patient from intensive care to home. CRPA Conference. Gold Coast, October 2015.

Paratz J. Invited Speaker. Intensive care follow up. Advanced Mechanical Ventilation Melbourne, July 2015.

Presneill J. ANZICS Clinical Trials Group and ANZICS Centre for Outcome and Resource Evaluation (ANZICS CORE). Critical Care Health Services Research Forum. Sydney, March 2015.

Presneill J. College of Intensive Care Medicine of Australia and New Zealand (CICM) Primary Short Course. Brisbane, July 2015.

Presneill J. Health Ethics and Law (HEAL; Queensland chapter of Australasian Association of Bioethics and Health Law, the University of QLD Medical School and QLD University of Technology Faculty of Law). Brisbane 2015.

Presneill J. Erythropoetin in Traumatic Brain Injury RCT Result. ANZICS/ACCCN 2015 Annual Scientific Meeting. Auckland, New Zealand, October 2015.

Reade MC. Management of traumatic cardiac arrest. Australasian Trauma Society Annual Scientific Meeting. Gold Coast, October 2015.

Reade MC. The PATCH-Trauma trial. Australasian Trauma Society Annual Scientific Meeting. Gold Coast, October 2015.

Milford EM, Siminova G, Tung JP, **Reade MC**, Fraser JF. The development of a cryopreserved sheep red blood cell protocol for use in sheep models of trauma. Remote Damage Control Resuscitation Symposium. Bergen, 2015.

Reade MC. Translating battlefield resuscitation to the civilian setting. Australian Resuscitation Council Spark of Life Conference. Melbourne, 2015.

Reade MC. Dexmedetomidine to lessen ICU agitation - the DaHLIA trial. ANZICS Clinical Trials Group Annual Meeting on Clinical Trials in Intensive Care. Noosa, 2015.

Reade MC. Why so many negative trials in trauma? 35th International Symposium on Intensive Care and Emergency Medicine, Brussels. 2015.

Reade MC. Hypertonic solutions in trauma. 35th International Symposium on Intensive Care and Emergency Medicine, Brussels. 2015.

Reade MC. Military vs civilian trauma guidelines: How they differ. 35th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2015.

Reade MC. What we learned from military practice. 35th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2015.

Reade MC. Massive bleeding - the military experience. 35th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2015.

Reade MC. The next 20 years of ADF Combat Casualty Care. Royal United Service Institute Lecture Series. Brisbane, 2015.

Reade MC. A little less ordinary: research in critical care and the military. Australian Medical Association Doctors-In-Training Symposium. Brisbane, 2015.

Roberts JA. Point prevalence PK studies and the relevance of TDM for beta-lactam antibiotics. 14th International Congress of International Association of Therapeutic Drug Monitoring & Clinical Toxicology. Rotterdam, The Netherlands, October 2015.

Roberts JA. Meet the Experts – Antibiotics and ECMO, Interscience Conference on Antimicrobial agents and Chemotherapy. San Diego, USA, September 2015.

Roberts JA. Meet the Experts – Individualised antibiotic dosing: a tale of two cities, Interscience Conference on Antimicrobial agents and Chemotherapy. San Diego, USA, September 2015.

Roberts JA. Prolonged vs continuous application of antibiotics. International Congress of Sepsis and Multi-organ Dysfunction. Weimar, Germany, September 2015.

Roberts JA. Precision medicine: Obesity and pharmacotherapy. International Congress of Sepsis and Multi-organ Dysfunction. Weimar, Germany, September 2015.

Roberts JA. Therapeutic drug monitoring of beta-lactams in the ICU. European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Roberts JA. Can PK/PD get us better outcomes for infected ICU patients? European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Roberts JA. My research. European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Roberts JA. Therapeutic drug monitoring of beta-lactams in the ICU. Université Lyon Short Course on Antimicrobial Monitoring. Lyon, France, April 2015.

Roberts JA. Anti-infective therapy in the past, present and in the future - a PK/PD perspective. Stuttgarter Intensivkongress, Stuttgart, Germany, February 2015.

Roberts JA. Prolonged beta-lactam infusions in the ICU. Stuttgarter Intensivkongress, Stuttgart, Germany, February 2015.

Roberts JA. Optimising drug dosing in acute kidney injury and renal replacement therapies, Australasian Pharmaceutical Science Association and Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists (APSA-ASCEPT) Joint Scientific Meeting, Hobart, November-December 2015.

Roberts JA. The Difficult Patient – How to dose the antibiotics? Infectious Diseases and Critical Care Conference. Melbourne, September 2015.

Roberts JA. The Pharmacology, PK and PD of Antimicrobials. Society of Hospital Pharmacists of Australia Infectious Diseases Clinical Seminar, Perth, August 2015.

Roberts JA. Individualised dosing and therapeutic drug monitoring. Society of Hospital Pharmacists of Australia Critical Care Seminar. Sydney, August 2015.

Roberts JA. Beta-lactam therapeutic drug monitoring in ICU. ANZ Therapeutic Drug Monitoring Workshop. Sydney, May 2015.

Roberts JA. Antibiotic dosing in the critically ill. Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists Clinical Pharmacology Weekend. Sydney, May 2015.

Starr T. The Art of Juggling, Keeping the research project on track. Intensive Care Research Coordinators Interest Group Conference. Noosa, March 2015.

Invited Papers and Presentations 2016

Cohen J. Invited Faculty. Wellington Final Fellowship Examination Course. New Zealand, 2016.

Cohen J. The Genetics of Sepsis. ANZICS ASM. Perth, 2016.

Cohen J. ADRENAL update. 18th Annual Meeting on Clinical Trials in Intensive Care, March 2016.

Coyer F, Clark M, Slattery P, Thomas P, McNamara G, Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring pressure and body positioning: A pilot evaluation among critically ill patients. Oral presentation. 5th Congress of World Union of Wound Healing Societies. Florence, Italy, September, 2016.

Coyer F. Invited speaker. Pressure injuries in the critically ill patients – a never ending story? World Federation of Critical Care Nurses Congress. Brisbane, April, 2016.

Coyer F. Invited speaker. Implementing skin integrity rounds in the intensive care unit. World Federation of Critical Care Nurses Congress, Brisbane, April 2016.

Coyer F. Invited Expert Speaker. Incontinence-Associated Dermatitis. WCET World Council of Enterostomal Therapists. Cape Town, South Africa, March 2016.

Gardner A, Gardner G, Helms C, Gosby H, **Coyer F,** Cheng H. Clinical learning, governance and capability. 9th International Council of Nurses (ICN) International Nurse Practitioner/Advanced Practice Nursing Network (INP/APNN) Conference. Hong Kong, September 2016.

Lipman J. SHPA Critical Care Foundation Level Seminar. Brisbane, May 2016.

Lipman J. Invited Speaker. ASM/ICAAC Microbe 2016. Boston, June 2016.

Lipman J. Invited Speaker. Southern African Critical Care Society Meeting. Durban, South Africa, August 2016.

Lipman J. Invited Speaker. 29th Annual European Society of Intensive Care Medicine Meeting. Milan, October 2016.

Paratz J Facilitating clinicians to implement evidence into practice. RBWH Healthcare Symposium. September 2016.

Paratz J. Follow up clinic for sepsis survivors, preliminary results & feasibility. 29th Annual European Society of Intensive Care Medicine Meeting. Milan, October, 2016.

Paratz J. Early exercise and the microcirculation in sepsis. 29th Annual European Society of Intensive Care Medicine Meeting. Milan, October, 2016.

Reade MC. The new Australian Defence Force Blood Transfusion policy. Australasian Association of Clinical Biochemists / Australian Institute of Medical Scientists Combined Scientific Meeting. Brisbane, 2016.

Reade MC. Dexmedetomidine in agitated delirium: the DahLIA trial results. Australian and New Zealand Intensive Care Society Annual Scientific Meeting. Perth, 2016.

Reade MC. Is there still any reason to use colloids in trauma or critical illness? Australian and New Zealand Intensive Care Society. Annual Scientific Meeting. Perth, 2016.

Holley A, Reade MC, Robertson A, New C, Lumsden J, Sharpe S, Weber D, Rogerson T, Mackie B, Herron R. Military critical care. Australian and New Zealand Intensive Care Society Annual Scientific Meeting. Perth, 2016.

Reade MC. Recent clinical trials of dexmedetomidine. Asia-Pacific Sedation Conference. Seoul, 2016.

Reade MC. Blast injury in civilian practice. 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.

Reade MC. Are non-arterial blood gases any use? 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.

Reade MC. Why I would, and why I would not, use whole blood transfusions in civilian practice. 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.

Reade MC. How I manage agitated delirium in the ICU after the DahLIA trial. 5th Annual Best of Brussels Meeting, Indian Society of Intensive Care Medicine. Pune, 2016.

Reade MC. Penetrating thoraco-abdominal trauma in an austere Role 2 hospital. Remote Damage Control Resuscitation Conference. Bergen, 2016.

Reade MC. Treatment of agitated delirium: new aspects. 36th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2016. (invited conference opening plenary session).

Reade MC. Can we measure blood gases and lactate from venous or capillary blood? 36th International Symposium on Intensive Care and Emergency Medicine. Brussels, 2016.

Roberts JA. Under Dosing of Antibiotics in the ICU - A PK/PD Approach. IDWeek, Infectious Diseases Society of America Annual Scientific Meeting. New Orleans USA, October 2016.

Roberts JA. Antibiotic use in extracorporeal techniques. European Society of Intensive Care Medicine Annual Congress. Milan, Italy, October 2016.

Roberts JA. Dosing antifungals in the critically ill. European Society of Intensive Care Medicine Annual Congress. Milan. Italy, October 2016.

Roberts JA. Antibiotic PK/PD for treatment of MDR infections. European Society of Intensive Care Medicine Annual Congress. Milan, Italy, October 2016.

Roberts JA. Optimized PK/PD: Can It Reduce Resistance? ASM Microbe. Boston, USA, June 2016.

Roberts JA. Fitting data to models. ESCMID Postgraduate Technical Workshop Population Modelling and Dose Optimization with Pmetrics and BestDose: Antimicrobial Applications. Lyon, France, April 2016.

Roberts JA. TDM for beta lactams, sharing of centers experience, expert's vision for the future. Singapore Therapeutic Drug Monitoring Workshop. Singapore, April 2016.

Roberts JA. Approaches to funding the response to antimicrobial resistance. 3rd Queensland Forum on Antimicrobial Resistance. Brisbane, November 2016.

Roberts JA. Getting Systemic Therapy Right! Orthopaedic Infections – State of the Art. Brisbane, November 2016.

Roberts JA. Individualised antibiotic dosing and therapeutic drug monitoring. Sydney, September 2016.

Roberts JA. Drug dosing in obesity. Society of Hospital Pharmacists of Australia Queensland Branch Continuing Education Series. Brisbane, June 2016.

Roberts JA. Fitting data to models. NHMRC Centre of Research Excellence REDUCE Workshop on Population Modelling and Dose Optimization. Brisbane, October 2016.

Roberts JA. The importance of antibiotic dosing as part of AMS. 2nd Annual Targeting and Evaluating Antimicrobial Stewardship Forum. Melbourne, June 2016.

Roberts JA. Renal Replacement Therapy. Critical Care Seminar, Society of Hospital Pharmacists of Australia. Brisbane, May 2016.

Roberts JA. Is there a role for TDM in infective endocarditis? Australian Society for Antimicrobials – Annual Scientific Meeting. Melbourne, February 2016.

Roberts JA. Using MIC in Predicting Clinical Outcomes of Antibiotic Treatment. Australian Society for Antimicrobials – Annual Scientific Meeting. Melbourne, February 2016.

Stone L, McCarthy A, **Coyer F.** Poster Presentation. The CONTRAST Research Program: Aligning Magnet Attributes in Australia and the United States. 2016 ANCC National Magnet Conference. Orlando, Florida, USA, October, 2016.

Tuttici N. (PhD candidate **Coyer F** Principal supervisor). Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation. Hawaii International Conference on Education. Honolulu, Hawaii, USA, January 2016.

Conference and Poster Presentations 2015

Conference Presentations

Abdul-Aziz MH, Sulaiman H, Mat-Nor M, Rai V, Wong K, Hasan M, Wallis S, Lipman J, **Roberts JA**. The BLISS Study: Beta-Lactam Infusion in Severe Sepsis- Randomised controlled trial of continuous versus intermittent beta-lactam infusion in critically ill patients with severe sepsis in a Malaysian ICU setting. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Aubron C, Flint A, Bellomo R, Pilcher D, Cheng A, Hegarthy C, Martinelli A, Howden B, **Reade M**, Mcquiltlen Z. Epidemiology of platelets transfusion in critically ill patients. HAA Haematology Society of Australia and New Zealand Annual Scientific Meeting. Adelaide, 2015.

Campbell J, **Coyer F**, Osborne S. Taking the next step in maintaining skin integrity in older adult acute care patients; a new skin safety model. Abstract for 24th annual Royal Brisbane & Women's Hospital Symposium – Integrity & Integration in Healthcare Delivery. Brisbane, October, 2015.

Coyer F. Incontinence-associated dermatitis in the critical care setting. 2015 National Pressure Ulcer Advisory Panel National Biennial Conference. Orlando, USA, February 2015.

Flint A, Aubron C, Bellomo R, Pilcher D, Cheng A, Hegarthy C, Martinelli A, Howden B, **Reade M**, McQuiltlen Z. Duration of platelet storage and outcome of critically ill patients. HAA Haematology Society of Australia and New Zealand Annual Scientific Meeting. Adelaide, 2015.

Kynoch, K, Chang, AM, **Coyer F**. Predicting the needs of family with a relative admitted to an adult critical care unit (Oral Presentation). 12th International Family Nursing Conference. Odense, Denmark. August, 2015.

Milford EM, van Zyl N, Diab S, Simonova G, Dunster K, Tung JP, **Reade MC**, Fraser JF. Blood lactate levels are more predictive of coagulopathy than blood pressure in an ovine model of trauma and haemorrhage. United States Military Health Service Research Symposium. Ft Lauderdale, Florida, 2015.

Mudge A, McRae P, Donovan P, **Reade M**, Jenkins J, Foster M, Walker P. Improving care and outcomes for older vascular surgical patients. ANZ Society for Vascular Surgery Conference. Hawaii, 2015.

Paratz J, Leung B, Stockton K, Muller M, Younger J. Does burn injury increase cardiovascular risk? CRPA Conference. Gold Coast, October 2015.

Paratz J. Mortality in burn survivors – need for increased follow up Australia and New Zealand Burns Association. Melbourne, October 2015.

Parker SL, **Roberts JA**, Lipman J, Wallis SC. A suite of LC-MSMS assays to investigate pharmacokinetics of vancomycin in renal replacement therapy. Australasian Pharmaceutical Science Association and Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists (APSA-ASCEPT) Joint Scientific Meeting. Hobart, November-December 2015.

Parker SL, **Roberts JA**, Lipman J, Wallis SC. Translating innovative techniques of microsampling into clinical pharmacokinetic studies for fosfomycin in critically ill patients. Australasian Pharmaceutical Science Association and Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists (APSA-ASCEPT) Joint Scientific Meeting. Hobart, November-December 2015.

Parker SL, Guerra Valero YG, **Roberts JA**, Lipman J, Smith C, Russell L, Smith P, Wallis SC. A validated UHPLC-MS/MS method for measurement of riluzole in plasma and cardiac tissue samples. Australasian Pharmaceutical Science Association and Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists (APSA-ASCEPT) Joint Scientific Meeting. Hobart, November-December 2015.

Parker SL, **Roberts JA**, Dhanani J, Lipman J, Wallis SC. LC-MSMS method to describe the pharmacokinetics of aerosolised lincomycin and tobramycin at the site of infection. Australasian Pharmaceutical Science Association and Australasian Society for Clinical and Experimental Pharmacologists and Toxicologists (APSA-ASCEPT) Joint Scientific Meeting, Hobart, November-December 2015.

Van Zyl N, Milford EM, Diab S, Dunster K, **Reade MC**, Fraser JF. A reduction in factor VIII levels is associated with coagulopathy in an ovine model of trauma and haemorrhage. Australasian Trauma Society Annual Scientific Meeting. Gold Coast, 2015.

Conference Free Papers

Alasmari H, Bonner A, **Coyer F**. Examining Intensive Care Nurses clinical decision-making associated with acute kidney injury and continuous renal replacement therapy. ANZICS/ACCCN Annual Scientific Meeting on Intensive Care. Auckland, New Zealand, October, 2015.

Posters

Bergen PJ, Lipman J, Bulitta JB, Millen N, McGregor M, Kirkpatrick CMJ, **Roberts JA**, Landersdorfer CB. Differences in suppression of regrowth & resistance despite similar initial killing for meropenem (M) & piperacillin/tazobactam (P/T) against *P. aeruginosa* (Pa) & *E. coli* (Ec) (Poster) Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Byrne C, **Roberts JA**, McWhinney B, Fennell J, Egan S, O'Byrne P, Deasy E, Enright H, Ryder S, D'Arcy D, McHugh J. Population Pharmacokinetics of Teicoplanin in Haematological Malignancy Patients (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Carlier M, **Roberts JA**, Stove V, Verstraete A, Lipman J, De Waele JJ. Lack of PK/PD target attainment in de-escalated antibiotic therapy in critically ill patients: less is not always more (Poster). European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Carlier M, Roehr AC, **Roberts JA**, Brinkmann A, Frey O. Which routinely available measures of kidney function best predict β -lactam clearance in ICU (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Farkas A, Guan LF, Villasurda P, Dolton M, **Roberts JA**. Comparative evaluation of the predictive performance of three different structural population pharmacokinetic models to predict future voriconazole concentration (Poster). European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Farkas A, Gujadhur N, Yasin B, Felton T, **Roberts JA**. Model-based prediction of piperacillin concentrations in critically ill patients: a comparison of nine approaches against clinical data (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Farkas A, Frey O, **Roberts JA**, Roehr A. Evaluation of the utility of a Bayesian feedback method at predicting future linezolid concentrations in critically ill patients (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

König C, Braune S, Steinmetz OM, Baehr M, **Roberts JA**, Kluge S, Langebrake C. The Effect of Sustained Low-Efficiency Dialysis on Meropenem Pharmacokinetics in the Critically Ill (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Roberts JA, Roger C, Wallis SC, Lipman J, Muller L, Lefrant JY. The comparative effects of continuous venovenous haemofiltration vs continuous venovenous haemodiafiltration on the pharmacokinetics of linezolid in critically ill patients (Poster). European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Roehr AC, Frey OR, Helbig S, Farkas A, **Roberts JA**, Brinkmann A. Continuous Infusions of Linezolid, a 4 -Year Practical Experience with Critically Ill Patients (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Sole C, Bassetti M, Blot S, Chastre J, Felton T, Luyt C-E, Palmer LB, Pereira JM, Poulakou G, Riera J, Rouby J-J, Welte T, **Roberts JA**, Rello J. International survey of antibiotic nebulization in mechanically ventilated patients (saneme): old drugs for old bugs (Poster). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Diego, USA, September 2015.

Zelenitsky S, Lawson C, Calic D, Ariano R, **Roberts JA**, Zhanel G. Pre-Operative Antimicrobial Prophylaxis (AP) in Abdominal Surgery: The Role of Pharmacokinetics-Pharmacodynamics (PK-PD) (Poster). European Conference on Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark, April 2015.

Conference and Poster Presentations 2016

Conference Presentations

Alobaid AS, Roberts MS, Wallis SC, Lipman J, **Roberts JA**. What is the effect of obesity on the population pharmacokinetics of meropenem in critically ill patients? European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Byrne CJ, **Roberts JA**, McWhinney B, Fennell JP, O'Byrne P, Deasy E, Egan S, Enright H, Ryder SA, D'Arcy DM, McHugh J. The impact of serum albumin concentrations on the pharmacokinetics of unbound teicoplanin in patients with haematological malignancy. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Coyer F. A hole lot of trouble: a device-related tracheostomy pressure injury case study. Oral and Poster presentation. The Inaugural Wounds Australia Conference (AWMA). Melbourne, November. 2016

Farkas A, Luque S, Frey OR, Roehr AC, Grau S, **Roberts JA**. Population pharmacokinetics of linezolid as it applies to therapeutic drug monitoring: a comparison of ten approaches. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Hann A, Presneill J, **Reade MC**. Hollow viscus injury following blunt abdominal trauma: A case series. General Surgeons Australia Annual Scientific Meeting. Melbourne, 2016.

Lopez M, Grau S, Moreno I, Rubio M, Luque S, **Roberts JA**. Pharmacokinetics of micafungin in patients receiving ECMO. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Roberts JA, Roger C, Wallis SC, Muller L, Lipman J, Lefrant JY. Comparative effect of equal dose of continuous veno-venous haemofiltration and continuous veno-venous haemodiafiltration on ciprofloxacin population pharmacokinetics in critically ill patients. European Conference on Clinical Microbiology and Infectious Diseases. Amsterdam, Denmark, April 2016.

Awarded Grants 2015

Title	Granting Body	Investigators	Amount Awarded
Centre for REdefining antibiotic use to reDUce resistanCE and prolong the lives of antibiotics (REDUCE)	NHMRC CRE	Roberts J, Lipman J, Peake S, Turnidge J, Slavin M, Hopkins P, Bulitta J, Paul S, de Waele J, Joynt G.	\$2,158,296.00
Optimisation by Platform Trial Involving Multiple Interventions with Simultaneous Evaluation in Community Acquired Pneumonia (OPTIMISE-CAP)	NHMRC Project Grant	Prof Steve Webb (Monash Uni) CIG = A/Prof J Presneill	\$4,413,145
Levetiracetam pharmacokinetics in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage	Intensive Care Foundation	Cotta MO, Roberts JA, Presneill J	\$31,818
Optimising ceftriaxone dosing for critically ill patients with severe pneumonia	RBWH Foundation	Roberts JA, Cotta MO, Boots R	\$40,000
Levetiracetam PK in critically ill patients with severe traumatic brain injury and subarachnoid haemorrhage	RBWH Foundation	Cotta MO, Jeffree L, Roberts JA	\$40,000

Title	Granting Body	Investigators	Amount Awarded
Assessment of cerebral microcirculation after severe head injury when exposed to acute anaemia	RBWH Foundation	Bellapart J, Boots R, Reade M , Fraser J	\$39,140
Acute Severe and Life Threatening Asthma: A Clinical Audit of Current Intensive Care Practices in QLD Hospitals	RBWH Foundation	Boots R	\$7,000
A Biomarker for Sepsis to Thwart Antibiotic Overuse in the Intensive Care Unit	RBWH Foundation	Denny K, Cohen J , Paterson D, Lipman J , Evans D, Dulhunty J , Ungerer J, McWhinney B	\$20,000
A preliminary investigation of the pharmacokinetics and pharmacodynamics of amikacin/ fosfomycin combination against <i>Acinetobacter baumannii</i> using a dynamic in vitro hollow-fiber infection model	Cardeas Pharma	Roberts J	\$257,512
Aspects of the neuroendocrine stress response in patients with severe sepsis and multi-trauma	Discovery Foundation Award National Research Foundation of South Africa	Nethathe G	\$23,235
Doctor in Training Research Scholarship (Grant-in-aid)	AVANT	Denny K	\$15,000

Title	Granting Body	Investigators	Amount Awarded
Clinical Validation of an Antibiotic Dosing Calculator in Critically Ill Patients	Society of Infectious Diseases Pharmacists	Heil E, Farkas A, Johnson J, Nicolau D, Roberts JA , Thom K	\$12,000
EXTREME Pressure 2	WMI CRC	Coyer F, Ingleman J, Holley A , Edwards C, Khatun M, Thomas P, McNamara G	\$181,000

Awarded Grants 2016

Title	Granting Body	Investigators	Amount Awarded
Does Cefazolin Prophylaxis During Bariatric Surgery Achieve Therapeutic Concentration in Plasma & Interstitial Fluid	ANZCA Project Grant	Ryan R, Christensen R, Jackson D, Roberts JA	\$34,059
Does Cefazolin Prophylaxis During Bariatric Surgery Achieve Therapeutic Concentration in Plasma & Interstitial Fluid	ANZCA Project Grant	Ryan R, Christensen R, Jackson D, Roberts JA	\$34,059
BLING III: A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent betalactam dosing in critically ill patients	NHMRC Project Grant	Lipman J, Roberts JA , Myburgh J, Peake S, Dulhunty J , Paterson D, McGuinness S, Rhodes A, de Waele J, Finfer S	\$3,269,942
Redefining antibiotic dosing to reduce bacterial resistance	NHMRC Practitioner Fellowship	Roberts JA	\$474,512
Using a drop of blood to optimise antibiotic dosing in infants and children	Ian Potter Medical Research Grant	Parker S, Roberts JA	\$39,500

Title	Granting Body	Investigators	Amount Awarded
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	Merck Sharpe & Dohme	Roberts JA	\$110,215
An observational pharmacokinetic study of ceftolozane-tazobactam in intensive care unit patients with and without continuous renal replacement therapy	Merck Sharpe & Dohme	Roberts JA	\$225,000
Single dose population PKs of intravenous Posaconazole in critically ill patients	Merck Sharpe & Dohme	Roberts JA	\$77,752
Building Pharmacokinetic and Clinical Trial Capacity at the Herston Campus	UQ Strategic Funding	Lipman J	\$1,883,719
Screening Anti-Fungal Exposure in Intensive Care Units: the SAFE-ICU study	RBWH & RBWH Foundation Research Grants	Roberts JA , Roger C	\$40,000
Implementing microsampling into clinical pharmacokinetic research studies - it only takes a drop of blood!	RBWH & RBWH Foundation Research Grants	Lipman J , Parker S, Dorofaeff T	\$40,000

Title	Granting Body	Investigators	Amount Awarded
Does Routine Antibiotic Administration in Overweight Women Having Elective Caesarean Section Achieve Therapeutic Levels?	RBWH & RBWH Foundation Research Grants	Christensen R, Eley V, Ryan R, Jackson D, Van Zundert A, Roberts JA, Lipman JA	\$40,000
Aspects of the neuroendocrine stress response in patients with severe sepsis or multi-trauma	The South African Society of Anaesthesiologists (SASA) Perioperative Medicine Grant	Nethathe G	\$70,000
Aspects of the neuroendocrine stress response in patients with severe sepsis or multi-trauma	National Research Foundation of South Africa	Nethathe G	\$23,235

Awards 2015

Coyer F. VC Performance Award.

Holley A. Selected ANZICS Representative to 37th International Symposium on Intensive Care and Emergency Medicine. Brussels.

Holley A. Unit Citation Task Group 66.

Holley A. Australian Operational Services Medal. Greater Middle East Region.

Lipman J. Elected to Fellow of Intensive Care Foundation.

Paratz J. Royal Brisbane & Women's Hospital Symposium Distinguished Research Medal.

Presneill J. Admitted as Graduate Statistician by the Statistical Society of Australia Inc., (GStat).

Read MC. United States of America Army Commendation Medal.

Read MC. Operational Service Medal (Greater Middle East Area of Operations).

Roberts J. ESCMID Young Investigator Award for Research in Clinical Microbiology and Infectious Diseases, European Society of Clinical Microbiology and Infectious Diseases.

Awards 2016

Paratz J. Outstanding Leadership in Allied Health Research, Learning and Innovation – Metro North.

Read MC. Clasp '2' to the Australian Defence Force Operational Service Medal (Greater Middle East Area of Operations).

Research Collaboration

State

Diamantina Institute

Gold Coast University Hospital

Intensive Care Unit

Griffith University

Research Centre for Clinical and Community Practice Innovation

Pathology Queensland

The Prince Charles Hospital

Department of Cardiology

Intensive Care Unit

Princess Alexandra Hospital

Infectious Diseases Unit

Intensive Care Unit

Department of Nephrology

Queen Elizabeth Jubilee Hospital

Queensland Ambulance Service

Queensland Bioscience Precinct

CSIRO Livestock Industries

Queensland Institute of Medical Research

Bacterial Pathogenesis Laboratory

Queensland University of Technology

Institute of Health and Biomedical Innovation

Medical Engineering Research Facility

School of Public Health and Social Work

Redcliffe Hospital

Intensive Care Unit

Royal Brisbane and Women's Hospital

Department of Anaesthetics

Department of Clinical Pharmacology

Infectious Diseases Unit

Department of Medicine

Department of Nutrition and Dietetics

Department of Renal Medicine

Department of Rheumatology

Department of Surgery

Nursing Research and Development Unit
Toowoomba Hospital
The University of Queensland
Australian Infectious Diseases Research Centre
Burns, Trauma and Critical Care Research Centre
Centre for Advanced Imaging
UQ Centre for Clinical Research
Queensland Institute of Medical Research
School of Chemistry and Molecular Biosciences
School of Health and Rehabilitation Services
School of Medicine
School of Pharmacy
School of Population Health
Therapeutics Research Centre

National

Alfred Hospital, Victoria
Infectious Diseases
Microbiology
Austin Hospital, Victoria
Intensive Care Unit
Department of Anaesthesia
Pharmacy
Australian and New Zealand Intensive Care Society Clinical Trials Group
Australian Red Cross Blood Service
Bendigo Hospital, Victoria
Blacktown Hospital, New South Wales
Department of Intensive Care
Box Hill Hospital, Victoria
Intensive Care Department
Canberra Hospital, Australian Capital Territory
Charles Darwin University, Northern Territory
Menzies School of Health Research
Flinders University, South Australia
Department of Critical Care Medicine, School of Medicine
The George Institute for Global Health, New South Wales

Geelong Hospital, Victoria
Gosford Hospital, New South Wales
John Hunter Hospital, New South Wales
 Department of Infectious Diseases
Lyell McEwin Hospital, South Australia
Medical School Research Centre, South Australia
Monash University, Victoria
 Australian and New Zealand Intensive Care Research Centre
 School of Public Health and Preventative Medicine
 National Trauma Research Institute
 Faculty of Pharmacy and Pharmaceutical Sciences
 School of Rural Health and Gippsland Medical School
Nepean Hospital, New South Wales
 Intensive Care Unit
Prince of Wales Hospital, New South Wales
 Department of Intensive Care Services
Royal Darwin Hospital, Northern Territory
 Intensive Care Unit
Royal Hobart Hospital, Tasmania
Royal Melbourne Hospital, Victoria
 Department of Intensive Care Medicine
Royal Perth Hospital, Western Australia
 Intensive Care
Royal Prince Alfred Hospital, New South Wales
Royal Women's and Children's Hospital, South Australia
 Department of Infectious Diseases
Sir Charles Gairdner Hospital, Western Australia
St George Hospital, New South Wales
St John Ambulance, Western Australia
St Vincent's Hospital, New South Wales
University of Sydney, New South Wales
 Department of Intensive Care Medicine, Sydney Medical School
 Sydney Nursing School
University of Melbourne, Victoria
University of Western Australia, Western Australia
 Emergency Medicine
 School of Medicine and Pharmacology

Westmead Hospital, New South Wales
Intensive Care
Centre for Infectious Diseases and Microbiology
Molecular Mycology Laboratory

International

Attikon University Hospital, Greece
Auckland City Hospital, New Zealand
Department of Critical Care Medicine
Cardiothoracic and Vascular Intensive Care Unit
Azienda Ospedaliero Universitaria Santa Maria della Misericordia, Italy
Department of Experimental and Clinical Medicine
Institute of Clinical Pharmacology and Toxicology
Brigham University, USA
Brigham and Women's Hospital, USA
Infection Control Department
Canterbury District Health Board, New Zealand
Changi General Hospital, Singapore
Anaesthesia and Surgical Intensive Care
Chinese University of Hong Kong, Hong Kong
Anaesthesiology and Intensive Care
Christchurch Hospital, New Zealand
Department of Clinical Pharmacology
CHU Nîmes, France
Division anesthésie Réanimation Douleur Urgence
Erasme Hospital, Belgium
Department of Infectious Diseases
Department of Clinical Chemistry
Ghent University, Belgium
Department of Clinical Chemistry, Microbiology and Immunology
Department of Critical Care Medicine
Department of Laboratory Medicine
Hartford Hospital, USA
Centre for Anti-Infective Research and Development
Division of Infectious Diseases
Harvard Medical School, USA
Department of Population Medicine

Hawkes Bay Hospital, New Zealand
Hong Kong Polytechnic University, Hong Kong
Hôpital Universitaire Bichat-Claude Bernard, France
Hospitais da Universidade de Coimbra, Portugal
Hospital Nord, France
Hospital Tengku Ampuan Afzan, Malaysia
Jena University Hospital, Germany
 Centre for Infectious Diseases and Infection Control
 Centre for Sepsis Control and Care (CSCC)
John Hopkins University, USA
Middlemore Hospital, New Zealand
 Critical Care Complex
Philipps University, Germany
 Department of Anaesthesiology and Intensive Care
Porton Down, United Kingdom
 Defence Science and Technology Laboratory
Prince of Wales Hospital, Hong Kong
 Anaesthesiology and Intensive Care
Royal Centre for Defence Medicine, United Kingdom
St George's Hospital, United Kingdom
St Marianna University School of Medicine, Japan
 Department of Emergency and Critical Care Medicine
UK Intensive Care National Audit and Research Centre, United Kingdom
Université Libre de Bruxelles, Belgium
 Department of Clinical Chemistry
University of Barcelona, Spain
University of Edinburgh, United Kingdom
University Hospital Birmingham, United Kingdom
University Hospitals Leuven, Belgium
 Neonatal Intensive Care Unit
University of Limpopo, South Africa
 School of Pharmacy
University of Pittsburgh, USA
 Department of Critical Care Medicine
University of Texas Medical Branch, USA
 Department of Anaesthesiology
University of Witwatersrand, South Africa
US Army Institute of Surgical Research, USA

Vall d'Hebron University Hospital, Spain

Critical Care Department

Waikato Hospital, New Zealand

Washington Hospital Centre, USA

Pulmonary and Critical Care Medicine

Washington University, USA

Wellington Regional Hospital, New Zealand

Professional Organisational Activity

Judith Bellapart

Chair, Morbidity and Mortality Review, Intensive Care Services, RBWH

Member, College of Intensive Care Medicine, Australasia

Member, Catalan Intensive Care Association

Member, Spanish National Intensive Care Association

Member, European Intensive Care Society

Reviewer, Intensive Care Medicine

Robert Boots

Adjunct Associate Professor, University of Queensland

Education Officer and Board Member, College of Intensive Care Medicine, Australia and New Zealand

Member, National Examination Panel Royal Australasian College of Physicians

Member, Editorial Board, Critical Care Research and Practice

Member, Editorial Board, World Journal of Respiriology

Member, Editorial Board, Open Journal of Therapy and Rehabilitation

Member, Editorial Board, Scientifica

Member, Editorial Board, Dataset Papers in Medicine

Member, International Steering Committee, Basic Assessment and Support in Intensive Care (BASIC) Course

Member, Pathology Examination Committee, Royal Australasian College of Surgeons

Faculty Member, Skills Development Centre, QHealth

Faculty Member, Critical Care Bronchoscopy, Alfred Hospital, Melbourne

Reviewer, Critical Care and Resuscitation

Reviewer, World Journal of Paediatrics

Reviewer, Journal of Internal Medicine

Reviewer, Journal: Clinical Medicine Insights: Case Reports

Reviewer, Neurocritical Care

Reviewer, Journal of Epidemiology and Global Health

Jenie Butler

ICS research portfolio management of Transfuse, SPICE III, Levey and PLUS Study

Unblinded pharmacist for Athos 3 (Angiotensin II for treatment of High Output Shock)

Member, Intensive Care Research Coordinators Interest group

Jeremy Cohen

Chairman, ICU Clinical Information System State-wide User Group
Convenor, College of Intensive Care Medicine Update Meeting
Research Lead, Intensive Care Services
Deputy Chair, College of Intensive Care Medicine General Examination Committee
Member, College Intensive Care Medicine Assessments Committee
Queensland Regional Representative, ANZICS CTG
Member, Management Committee ADRENAL Trial
Member, Management Committee ADRENAL-GEPPS Trial
Examiner, College of Intensive Care Medicine
Associate Editor, "The Monitor" ICU current awareness journal
Invited Faculty, Brisbane Examination Course
Reviewer, Anaesthesia and Intensive Care
Reviewer, Critical Care
Reviewer, Intensive Care Medicine
Reviewer, Critical Care Medicine

Fiona Coyer

Member, Australian College of Critical Care Nurses (ACCCN Ltd)
Member, Wounds Australia
Member, Phi Delta-at-Large Chapter, Sigma Theta Tau International Honor Society of Nursing
Member, Skin Safety Committee, Royal Brisbane and Women's Hospital
Member, Pressure Injury Prevention Committee Metro North Hospital and Health Service
Member, State-wide Pressure Injury Prevention Committee
Member, State-wide Pressure Injury Prevention Collaborative (PIPSCAP)
Member, Education Advisory Council, Sigma Theta Tau International Honor Society of Nursing
Invited Member, International Advisory Board, Elsevier Journal of Intensive and Critical Care Nursing (UK)
Invited Member, Editorial board, Journal Wound Care, (UK)
External Thesis Examiner, Griffith University
External Thesis Examiner, Flinders University
External Thesis Examiner, Southern Cross University
External Thesis Examiner, University of Southern Queensland
External Thesis Examiner, University of Technology Sydney
Reviewer, Australian Critical Care
Reviewer, Intensive and Critical Care Nursing

Reviewer, American Journal of Critical Care
Reviewer, Heart and Lung
Reviewer, Journal of Advanced Nursing
Reviewer, Journal of Clinical Nursing
Reviewer, International Journal of Nursing Practice
Reviewer, International Journal of Nursing Studies
Reviewer, American Journal of Infection Control
Reviewer, European Journal of Cardiovascular Nursing

John Gowardman

Adjunct Associate Professor, Griffith University, Gold Coast
Senior Lecturer, University of Queensland
Chair, Intensive Care Services, Quality Improvement Committee
Senior Examiner, College of Intensive Care Medicine
Member, Vascular Access Committee, Royal Brisbane and Women's Hospital
Chair, Australian and New Zealand Intensive Care Society, Safety and Quality committee
Reviewer, Anaesthesia and Intensive Care
Reviewer, Critical Care Medicine
Reviewer, American Journal of Infection Control
Reviewer, Clinical Microbiology and Infection
Reviewer, International Journal of Antimicrobial Agents
Reviewer, Scandinavian Journal of Infectious Diseases

Rajeev Hegde

Course Convenor, Beyond BASIC – Mechanical Ventilation Course (Brisbane)
Course Convenor, Current Concepts in Critical Care Course
Chair, State Australian and New Zealand Intensive Care Society
Board Member, Federal Australian and New Zealand Intensive Care Society
Organiser, Australian and New Zealand Intensive Care Society Annual Scientific Meeting, Gold Coast
Examiner, College of Intensive Care Medicine
Royal Brisbane and Women's Hospital Supervisor of Training, College of Intensive Care Medicine

Anthony Holley

Honorary Treasurer, Australian and New Zealand Intensive Care Society Executive Board
Fellowship Examiner, College of Intensive Care Medicine
Senior Instructor, RACS EMST

Member, Clinical Review Group (CRG) National Blood Authority Guidelines
Commander and Professional Liaison Officer for Emergency Medicine, Anaesthesia and Intensive Care Medicine, Royal Australian Navy Reserve
Supervisor of Training, RBWH.
Critical Care Medical Representative, Transfusion Committee

Jeffrey Lipman

Member, Royal Brisbane and Women's Hospital Scientists Committee
Member, Royal Brisbane and Women's Hospital Divisional (CC&CSS) Executive Committee
Theme Lead, Brisbane Diamantina Health Partners "Trauma Critical Care and Recovery" Theme
Visiting Professor, Chinese University of Hong Kong.
Adjunct Professor, The George Institute for Global Health, University of Sydney
Honorary Professorial Research Fellow, University of the Witwatersrand, Johannesburg, South Africa
Faculty Member, European Society of Intensive Care Medicine
Section Editor, International Journal of Antimicrobial Agents
Editor (Intensive Care), Anaesthesia and Intensive Care
Editor, ICU Management
Editor, The Open Respiratory Medicine Journal
Editor, Medicina Intensiva (Journal of Spanish Society of Intensive Care)
Editor, Journal of Intensive Care (Journal of Japanese Society of Intensive Care)
Editor, Intensive Care World Monitor
Editor, Current Infectious Disease Reports
Editor, Southern African Journal of Infectious Diseases
Reviewer, NHMRC (Australia)
Reviewer, South Africa's National Research Foundation (NRF)
Reviewer for 40 Journals

Jenny Paratz

Acting Chair, University of Queensland Human Medical Ethics Committee
Member, Prince Charles Research Foundation Committee
Lectures x 10 hours Years 2,3,4 University of Queensland in Cardiology and Intensive Care
Lectures and Examining x 16 Year 2 Griffith University – Intensive Care and Cardiorespiratory
Faculty, Queensland Skills Development Centre

Jeffrey Presneill

Queensland State Representative, Australian and New Zealand Intensive Care Society (ANZICS) Centre for Outcome and Resource Evaluation (CORE) Research and Publication Working Group.

Academic Referee, The International Journal of Antimicrobial Agents

Academic Referee, Critical Care Research and Practice

Project Grant Assessor, National Health and Medical Research Council (NHMRC), Australia

Michael Reade

Australian Defence Force Professor of Military Medicine and Surgery, University of Queensland and

Australian Defence Force, Joint Health Command

Director of Clinical Services, 2nd General Health Battalion, Australian Army

Deployed on ADF Operation OKRA, March-June 2015

Australian Representative, Tripartite Technical Co-operation Program Technical Panel 22 (Military Medicine)

Member, Australian Resuscitation Council National Committee (Australian Defence Force Representative)

Member, Patient Blood Management Guideline Committee, Australian National Blood Authority.

Member, Executive Committee, Australasian Trauma Society

Member, Australian Trauma Quality Improvement Program

Member, Toowoomba Hospital Grants Review committee

Member, Repatriation Foundation Grants Committee

Member, Australian and New Zealand Intensive Care Research Centre Scientific Review Committee

Member, Society of Critical Care Medicine, Association of Military Surgeons of the United States of America, Australasian Military Medicine Association

Member, Data Monitoring Committee, Randomised Evaluation of Active Control of Temperature vs. Ordinary temperature management (REACTOR) Trial, 2016

Instructor, Basic Assessment and Support in Intensive Care Course

Senior Australian Defence Force Doctor, Vietnamese Hospital UN Training Team, 2015

Reviewer for 41 journals, including JAMA, Critical Care Medicine and Critical Care, The American Journal of Respiratory and Critical Care Medicine and Critical Care

Editorial Board Member, Anaesthesia and Intensive Care

Editorial Board Member, Current Opinion in Critical Care

Editorial Board Member, Disaster in Military Medicine (BioMed Central)

Editorial Board Member, Intensive Care Monitor

Editorial Board Member, Journal of Military and Veterans' Health

Jason Roberts

Panel Member, Critical Review Panel, ATS/IDSA Guidelines on HAP, HCAP and VAP, American Thoracic Society and Infectious Diseases Society of America

Panel Member, Therapeutic Guidelines – Antibiotic Therapeutic Guidelines version 15, Therapeutic Guidelines Ltd

Section Editor, International Journal of Antimicrobial Agents, Journal of International Society of Chemotherapy

Chair, Working Group for Antimicrobial Use in ICU, European Society of Intensive Care Medicine

Secretary, European Society of Clinical Microbiology and Infectious Diseases (ESCMID) PK/PD Study Group (EPASG) Executive Committee

Associate Editor, Journal of Pharmacy Practice and Research, Society of Hospital Pharmacists of Australia

Editorial Board Member, Anaesthesia Critical Care and Pain Medicine, French Society of Anaesthesia and Intensive Care

Reviewer for 25 journals

Chair, ICU and Sepsis Working Group, International Society of Chemotherapy (ISC)

Co-Chair, European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Clinical Guidelines for Nebulised Antibiotics in Mechanically Ventilated Patients, European Society for Clinical Microbiology and Infectious Diseases (ESCMID)

Committee member – Infectious Diseases Committee of Specialised Practice, Society of Hospital Pharmacists of Australia

Committee member – Critical Care Committee of Specialised Practice, Society of Hospital Pharmacists of Australia

Committee member – PK/PD Study Group, European Society of Clinical Microbiology and Infectious Diseases

Convenor, Population pharmacokinetic modelling and dose optimisation of antimicrobials workshop, October 2015, Brisbane, Australia.

Co-convenor, Critical Care Seminar, Society of Hospital Pharmacists of Australia, Brisbane, Australia, Organising Committee, ESCMID/ASM Conference on Drug Development to Meet the Challenge of Antimicrobial Resistance, September 2016, Vienna, Austria

Organising Committee, Population pharmacokinetic modelling and dose optimisation of antimicrobials workshop, European Society of Clinical Microbiology and Infectious Diseases, Lyon, France.

Panel Member, Health Practitioner Scheme Queensland Health

Project Grant External Reviewer, Austrian Science Fund, 2016

Project Grant External Reviewer, Research Council KU Leuven, Belgium, 2016

Project Grant External Reviewer, UK National Institute for Health Research, 2015

External Reviewer, Italian Ministry of Health (MOH) Grant Scheme, 2015
Abstract Reviewer, European Society for Clinical Microbiology and Infectious Diseases, ECCMID Copenhagen, Denmark, 2015
Panel Member, NHMRC Early Career Fellowship Panel
Fellow, Society of Hospital Pharmacists of Australia (SHPA)
Member, Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT)
Member, American Society for Microbiology (ASM)
Member, Australian Society for Antimicrobials (ASA)
Member, European Society of Intensive Care Medicine (ESICM)
Member, Australian Society of Infectious Diseases (ASID)
Member, European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
Member, International Society of Anti-Infective Pharmacology (ISAP)
Member, International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT)
Member, Population Approach Group of Australia and New Zealand (PAGANZ)

Therese Starr

Member, Association of Clinical Research Professionals
Member/State Representative, Intensive Care Research Coordinators Interest Group

Neil Widdicombe

Chairman, Queensland State Intensive Care Clinical Network
College of Intensive Care Medicine National Representative, Australasian College of Emergency Medicine Prehospital and Retrieval Medicine (PHaRM) Committee
Chairman, Metro North Intensive Care Forum
Chairman, Trauma Review Committee, Royal Brisbane and Women's Hospital
Hospital Medical Director, Organ and Tissue Donation, Royal Brisbane and Women's Hospital
Member, Queensland Regional Committee, College of Intensive Care Medicine
Hospital Accreditation Assessor, College of Intensive Care Medicine
Member, Australian Medical Association
Member, British Intensive Care Society
Honorary Senior Lecturer, University of Queensland
Course Director, EMST Course
Instructor, Basic Assessment and Support in Intensive Care Course
Instructor, ADAPT Course
Instructor, DonateLife Family Donation Conversation