



2022

# RBWH Research Report

**CRITICAL CARE AND  
CLINICAL SUPPORT SERVICES**

## Contents

Critical Care and Clinical Support Services .....	3
---	---

Published by the State of Queensland (Metro North Hospital and Health Service), December 2023

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](https://creativecommons.org/licenses/by/3.0/au)

© State of Queensland (Metro North Hospital and Health Service) 2022

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:

RBWH Research Services, Metro North Hospital and Health Service, Building 34, Level 1, South Wing, Herston QLD 4006, email [RBWH-Research-AdminCoord@health.qld.gov.au](mailto:RBWH-Research-AdminCoord@health.qld.gov.au).

An electronic version of this document is available at <https://metronorth.health.qld.gov.au/research/research-reports>

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.

# Critical Care and Clinical Support Services

## Research highlights for the year (1 January – 31 December 2022)

### **Emergency and Trauma Centre -**

In 2022, clinician researchers at the Emergency and Trauma Centre led and participated in a variety of research activities in the key areas of cardiac care, infection, nursing care, and workforce wellness. In collaboration with academic partners, our researchers continued to develop skills in the emerging fields of “big data” and machine learning. As usual, our researchers focussed on meeting the objectives of existing grants and were very active in applying for new competitive grants. Their efforts were rewarded by 33 peer-reviewed publications.

### **Medical Imaging -**

Department of Medical Imaging (DMI) led research in 2022 was carried out over a broad range of subject areas, including improving patient outcomes after neurointerventional treatment; optimising imaging techniques to improve diagnosis and reduce health costs; and investigating the potential and impact of novel medical imaging software and hardware on disease diagnosis and treatment.

The department was again well represented at national and international conferences, with peer reviewed conference presentations by 16 of our clinical staff in addition to the 17 invited lectures listed in this report.

DMI staff also collaborated with other departments and external organisations on a number of other projects, and the department supported over 80 service-based research studies established by other RBWH departments or external research groups. Our consultants, registrars, radiographers, and nurses provide expertise on imaging protocols, clinical diagnosis, and interventional procedures to best support these projects.

### **Intensive Care Services -**

The department had a highly successful year.

The departmental research activities spanned across a broad range of disciplines and study topic areas not limited to clinical trials, pharmacokinetic/dynamics, epidemiology, basic science, and translational research. Departmental members attracted tens of millions of research grants either as leaders or collaborators on local, national, and international studies.

Multicentred clinical studies included acceleration of recruitment in the CLIP-II and CLIPNZ-II trials of cryopreserved platelets, with approx. half of the target number of patients transfused in 9 Australian and 3 NZ hospitals; completion of recruitment in the PATCH-Trauma trial of tranexamic acid, with results likely to be published in early 2022; strong recruiting into the PREDICT trial of prognostication in severe traumatic brain injury using advanced MRI techniques combined with novel blood biomarkers; equally strong recruiting into the EPO-Trauma trial of erythropoietin in severe trauma.

Laboratory research with translation into the clinical care of patients was an evolving area during year with new collaboration with QIMR related to the BETI study to examine the use of organoids to investigate shock physiology. Use of nebulised medications in several areas was an increasing area of productivity.

Further work with the Queensland Critical Care Research Network occurred with a 14-site multicentred study underway. Pilot work with four ICUs in Metro North led to several studies examining the determinants and outcome of critical illness.

The department has proceeded with important developmental work with The Herston Biofabrication Institute. Novel simulation products developed were tested in central line insertion study that is currently in final stages of reporting.

Research productivity was evidenced by more than 100 peer reviewed publications by departmental members. Professor Roberts was awarded the 2021 Fred J Boyd Award SHPA, The Society of Hospital Pharmacists of Australia

## **Genetic Health Queensland -**

GHQ's research contributions have continued to expand in 2022. The Australian Genomics (AG) cardiovascular disorders flagship, co-lead by Prof Julie McGaughan, successfully reached its recruitment target of 600 participants in 2021 and completed Tier 1 and Tier 2 genomic testing in December 2022. An overview paper has been drafted for the flagship to be submitted for publication in early 2023. The Acute care Genomics flagship has now completed, with the model of care transitioning to a business-as usual approach. Recruitment to the Genomic Autopsy study is tracking well. A 0.7FTE Research assistant is facilitating GHQ's ongoing contribution to AG, including a national clinical consent initiative.

The Australian Undiagnosed Disease Network (UDN-Aus) is a national MRFF funded program to improve the rate of genomic diagnosis for those with undiagnosed rare genetic conditions to enable precise, personalised care. UDN-Aus began recruiting at GHQ in September 2022 and has so far recruited 7 families with recruitment expected to ramp up in 2023.

The PRiMo trial (a randomised clinical trial using Polygenic Risk Modification to improve breast cancer prevention) began recruiting at GHQ in July 2022 and has so far recruited 56 women undergoing predictive testing for a familial Breast cancer gene mutation.

A GHQ clinician is now a state lead for PreGen, a national study evaluating impact of genomic testing in the prenatal setting. GHQ clinicians were successful in securing AG funding for a genetics cross-speciality immersion training program, with trainees from a number of medical specialities joining the team in 2023 to promote embedded genetic champions within medical specialties, building genomic literacy and capabilities across the health service.

In a collaboration between MNH, Pathology Queensland and Illumina, GHQ has been undertaking an assessment of the impact of implementing whole genome sequencing-based testing. This has been available to all clinically appropriate patients under 18 years seen across Queensland. GHQ recruited 300 patients to this program.

Our Clinicians' and Genetic Counsellors' involvement in research and education collaborations has resulted in 29 publications this year as well as presentations at national and international conferences and other health professional groups.

## **Professor Tess Cramond Multidisciplinary Pain Centre -**

The Tess Cramond Pain and Research Centre (TCPRC) has been very active in building capacity, conducting and presenting high-quality clinical research in the past year. The team is proud of what they have achieved and would like to report the following highlights.

In collaboration with other departments, the TCPRC was awarded several research grants, including to Gunjeet Minhas to lead an RCT on the use of lidocaine infusion for the treatment of neuropathic pain, Scott Farrell on the examination of small fibre pathology following whiplash and Jayesh Dhanani on the use of nebulised dexmedetomidine for the management of pain during dressing changes in the burn injured. All these projects are novel, clinically relevant and are cutting-edge studies in pain management.





Nicole Andrew received the prestigious UQ Industry Engagement Award, which recognizes her outstanding contributions to the field of clinical research and her ability to effectively engage with industry partners.

The TCPRC successfully designed and built capacity for a single-centre RCT encompassing Quantitative Sensory Testing (QST) and medical procedures for pain management. It is hoped that through such research that better pain management can be defined including alternatives to opioids. This project was also an opportunity to enrol a staff member in a research higher degree and appoint a research nurse. The results of this study will contribute to our understanding of these important topics and will inform future clinical practice.

Members of the TCPRC have been invited to give several keynote presentations at national and international conferences, which highlights the recognition and respect that our research has received within the scientific community.

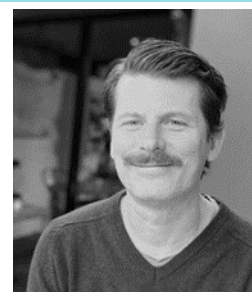
In conclusion, our department is committed to conducting high-quality clinical research that makes a meaningful impact on patient care and outcomes. We are proud of our achievements and look forward to continuing to advance the field of clinical research in pain management through our work.

## Successful PhD candidates in 2022

Name	PhD Title	Month Completed	Affiliated University	Summary	
Kannan Jagnathan	From the laboratory to the community: A study exploring factors to make exercise for persistent post-concussion symptoms more accessible.		Queensland University of Technology	Supervisor: <b>Jaimi Greenslade</b>	
Dr Kamrul Islam	Microbiological evaluation of piperacillin/tazobactam versus meropenem against extended-spectrum beta-lactamase-producing <i>Escherichia coli</i>	July 2022	The University of Queensland	Kamrul's thesis aims to evaluate the microbiological efficacy of piperacillin/tazobactam monotherapy, and in combination with the aminoglycoside antibiotic amikacin, versus meropenem monotherapy against ESBL-producing and non-producing <i>E. coli</i> clinical isolates.	
Dr Gloria Wong	A pharmacokinetic/ pharmacodynamic and clinical outcome evaluation of beta-lactam antibiotic therapeutic drug monitoring (TDM) in critically ill patients		The University of Queensland	Gloria explored the impact of hypoalbuminaemia on beta-lactam PK/PD in the critically ill, and utilization of unbound drug measurements in TDM to optimise beta-lactam dosing. It described the application of beta-lactam TDM-guided dosing program in critically ill patients with the use of directly-measured unbound drug concentration data.	
Dr Caleb Economou	The effect of renal replacement therapies on the pharmacokinetics of key antibiotics used in critically ill patients	April 2022	The University of Queensland	Caleb sought to address the dearth of information on the adequacy of dosing antibiotics in this severely-ill patient population. His thesis characterises the pharmacokinetics of hydrophilic antibiotics that are commonly used in critically ill patients undergoing renal replacement therapy.	
Dr Sazlyna Mohd Szally Lim	TBC	August 2022	The University of Queensland	TBC	



Name	PhD Title	Month Completed	Affiliated University	Summary
Erin Crofton	Is sensory sensitivity a factor in non-adherence with compression garments post-burn?	June 2022	University of Queensland	This thesis represents the first empirical effort to demonstrate associations between compression garment non-adherence and sensory over-responsiveness in adults with burn-injuries as assessed through self-reported and neurological threshold testing. Knowledge that these factors influence fundamentally important therapy to optimise scar outcomes offers practical considerations for occupational therapists who prescribe compression garments for adults post-burn. The results suggest that strategies addressing an individual's sensory modulation may improve scar outcomes through improved compression garment adherence, and warrant ongoing investigation.
Anthony Batterbury	How sick is too sick and how heavy too heavy? A mixed method study to understand clinical acuity and dependence to define thresholds for escalation or resource mobilisation	July 2022	Queensland University of Technology	Hospitalised patients who deteriorate and require emergency medical review will most likely remain on a general ward after the review. Judgements about the level of care required to safely manage these patients on the ward after medical emergency team review are complex, but rarely incorporate a formal assessment of illness severity. This challenges staff and ward resource allocation practices and patient safety. This study measured the illness severity, in terms of physiological acuity and interventional dependency, of patients after emergency medical review. Novel statistical methods were used to identify then profile patient risk for death and potentially preventable adverse outcomes.
Sonia Hines	An educational intervention to improve nurses' research literacy	April 2022	Queensland University of Technology	This thesis aimed to explore nurses' research literacy in terms of potential interventions to improve research literacy, and nurses' experiences of engaging with research literature. Four works were conducted to explore this issue: a quantitative systematic review, a quantitative pilot study, a qualitative systematic review, and a qualitative descriptive study to answer the research questions. Overall, nurses often feel research is an 'optional extra' to nursing, a secondary skillset unrelated to their ability to be a nurse. Most significantly, there are strong indications that nurses' feelings about research and its place in their daily work lives are strongly connected to their engagement with evidence-based practice.



Name	PhD Title	Month Completed	Affiliated University	Summary
Haunnah Rheault	Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: A mixed method study	March 2022	Queensland University of Technology	Chronic disease is the most significant contributor to the mortality gap between Australia's First Nations people and the overall Australian population. This study explored chronic disease self-management and health literacy in First Nations adults living in remote Queensland. Key findings were poor communication by healthcare providers coupled with limited health literacy abilities of people were the major barriers to active engagement with managing chronic disease. Providing a supportive health literacy environment and the provision of appropriate health information delivered in a cultural safe way using clinical yarning, may assist with closing the gap in First Nations people.

## Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
<b>Michelle Fenech</b>	2022 Australian Sonographers Association Pru Pratten Memorial Lifetime Achievement Award	2022 Australian Sonographers Association Awards Ceremony
<b>Jason Roberts</b>	2021 Fred J Boyd Award	SHPA, The Society of Hospital Pharmacists of Australia, awarded in 2022
<b>Nicole Andrews</b>	Early and Mid-career Research Industry Engagement Award	
Samantha Keogh, Jayesh Dhanani, <b>Annabel Levido</b> , Chris Gracie, Vladislav Ilushin, <b>Jennifer Palmer</b> , Suzie Parker, Anna Doubrovsky, Flavia Hyugens, <b>Fiona Coyer</b>	Best Nursing Free Paper Award: Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. The ENCLOSE trial	ANZICS/ACCCN Intensive Care ASM Conference

## Research Grants

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
<b>Louise Cullen</b>	Emergency and Trauma Centre	Use of the Siemen's point of care high sensitivity troponin assay to rapidly rule out acute myocardial infarction	Siemens Healthineers		3 years 2021-2023
Chew D, Briffa T, <b>Cullen L</b> , Quinn S, Karnon J, Liaw S-T, Harris M, Eapen V, Liu B, Kahn M, Sitas F,	Emergency and Trauma Centre	Optimizing evidence translation in the high-risk time-critical environment of the emergency management for suspected	NHMRC Partnership grant (APP1191914)	\$1,230,191.40	3 years 2021 - 2023

Muscatello D, Sharma A, Hall J, Jonnagaddala J.		cardiac chest pain (RAPIDx)			
Punyadeera C, Alexandrov K, Atherton J, Coats A, <b>Cullen L</b> , Dimeski G, Zhang X	Emergency and Trauma Centre	Biosensor based clinical-decision support for patients with heart failure.	NHMRC Ideas Grant (APP2002576)	\$691 933.40	3 years 2021 - 2023
<b>Greenslade J</b> , <b>Cullen L</b> , <b>Parsonage W</b> , Chew D, McPhail S, Figtree G, Brain D	Emergency and Trauma Centre, Department of Cardiology	The Limit of Detection in the Emergency Department Trial: A stepped-wedge cluster randomization trial for rapid assessment of patients with suspected acute coronary syndrome in the Emergency Department.	NHMRC Partnership Grant (APP1193269)	\$532 120	4 years, 2021-2024
Palpant N, King G, MacDonald P, Kaye D, Fraser J, <b>Cullen L</b>	Emergency and Trauma Centre	Development of a first-in-class therapeutic for protecting the ischemic heart.	NHMRC Development Grant (APP2000178)	\$926,673	3 years, 2021-2023.
<b>Williams J</b> , <b>Hills A</b> , <b>Ray M</b> , <b>Greenslade J</b> , <b>Paterson D</b>	Emergency and Trauma Centre	Trials in Emergency for Advancing Management of Sepsis: TEAM SEPSIS	Emergency Medicine Foundation Project Grant	\$261,787	3 years, 2023-2025
Elder L, Crilly J, <b>Greenslade J</b> , Brough P, Morphet J, Cameron P, <b>McCormick E</b> .	Gold Coast University Hospital	Emergency department doctors and nurses stress and coping: A national perspective	Griffith University Health Group Seed Grant	\$20,741.74	2 years, 2023-2024
Elder L, Crilly J, <b>Greenslade J</b> .	Gold Coast University Hospital	National emergency department stress, coping and intention to leave survey (DESTRESS)	Emergency Medicine Foundation Leading Edge Grant	\$99,607	2 years, 2023-2024
Starmer K, <b>Cullen L</b> , Starmer G, <b>Greenslade J</b> , <b>Parsonage W</b> , Brazzale A, Campbell V, Rigney J, Davis T.	Emergency Department, Cairns Hospital	Coronary artery disease in Aboriginal and Torres Strait Islander people	Emergency Medicine Foundation Leading Edge Grant	\$100,000	2 years, 2023-2024
<b>Hills A</b> , <b>Williams J</b> , <b>Ray M</b> , <b>Greenslade J</b>	Emergency and Trauma Centre	Subculture: Investigating the frequency and outcomes of subsequent blood culturesE	Emergency Medicine Foundation Jumpstart Grant	\$36,920	2 years, 2021-2022
<b>Williams J</b> , <b>Greenslade J</b> , <b>Hills A</b> , <b>Ray M</b> , <b>Carmichael H</b>	Emergency and Trauma Centre	Intervention with concentrated albumin for resuscitation of undifferentiated sepsis (ICARUS): A randomised controlled trial	Emergency Medicine Foundation Leading Edge Grant	\$82,402	3 years, 2020-2022
<b>Reis K</b> , <b>Carl J</b> , <b>Foran L</b> , <b>Gopalkumar N</b> , <b>Brown NJ</b> , <b>Cullen L</b>	Emergency and Trauma Centre	Embedding staff cultural capability for the care of Aboriginal and Torres Strait Islander People in the Emergency Department	Metro North Hospital and Health Service Link and Seed Project	\$160,415	1 year, 2021/22
Hughes J, <b>Chu K</b> , Nguyen A, Douglas C, <b>Brown N</b> , Jones L	Emergency and Trauma Centre	From Big Data to the Bedside – Answering big questions in emergency department pain care using	Emergency Medicine Foundation Leading Edge Grant	\$97,326	3 years, 2020-2022



		artificial intelligence and patient-reported outcomes			
<b>Burke J, Spratt B, Corry P, Brown NJ, Chu K</b>	Emergency and Trauma Centre	Modelling Emergency Department Patient Flow under Normal Operating Conditions and in a Pandemic	Emergency Medicine Foundation Leading Edge Grant	\$95,770	3 years, 2020-2022
<b>Brownlee E, Cullen L, Greenslade J, Parsonage W, Hawkins T, Foran L, McCormick E, Hughes J.</b>	Emergency and Trauma Centre	Relief of chest pain in the Emergency Department (RELIEF)	Emergency Medicine Foundation Jumpstart Grant	\$36,396	3 years 2020-2022
<b>Alan Coulthard, Rebecca Liong, Marita Prior, Anita Pelecanos, Jeffrey Lipman, Jason Roberts, Steven O'Donoghue</b>	Department of Medical Imaging	Efficacy of single dose enoxaparin post elective neurointervention in prevention of thromboembolic events (EPPICS II)	RANZCR	\$24,800	4 yrs, 2020-2023
<b>Marianne Kirrane</b>	ICS	EPIIC: Engineering for pressure injuries in Intensive Care	MNH SEED grant		1yr, 2021-2022
Forbes J, Campbell D, Wake E, George S, Brandenberg C, Gibbs C, McCullough J, <b>Reade MC</b> , Jeffress M, <b>Bodnar D</b> , Abu Yosef M, Righton J, Adams N, Hamilton A, Winearls J, Casey J, Creswell P	ICU, Emergency Medicine	Composition, quality and delivery of Major Haemorrhage Protocols (MHP) and critical bleeding clinical practice guidelines across Queensland Health	Emergency Medicine Foundation Qld	95,000	2 years 2022-2023
Saxena M, Arnott C, Delcourt C, Hammond N, Bass F, Venkatesh B, Aneman A, <b>Reade MC</b> , Neilsen N, Skrifvars M	ICU	TEmpérature, Mean arterial Pressure and SedaTion after Out of Hospital Cardiac Arrest (The STEPCARE Trial): A 3*2 Factorial Clinical Trial.	MRFF Clinical Trials Grant	844,000	4 years 2022-2025
Fitzgerald M and 49 co-investigators including <b>Reade MC</b> (CI-21)	ICU	AUS-mTBI: designing and implementing novel health informatics approaches to improve outcomes for people with mild TBI across Australia.	MRFF Traumatic Brain Injury Mission Stream 1 (Incubator)	3,000,000	5 years 2022-2026
EyeCP: Measuring Intracranial Pressure in the intensive care without brain surgery	ICU	EyeCP: Measuring Intracranial Pressure in the intensive care without brain surgery	Victorian Medical Research Acceleration Fund (VMRAF)	100,000	2 years 2022-2023
McQuilten Z, Cooper J, <b>Flint A</b> , French C, Higgins L, Irving A, <b>Reade MC</b> , Winearls J, Wood E.	ICU	International Point Prevalence Study of Intensive Care Unit Transfusion Practices – the InPUT-study – a point prevalence study of blood product use in intensive care units in Australia benchmarking blood product use against current guidelines and international practice	Australian National Blood Authority	\$155,000	2 years 2021-2022
Nasrallah F, Reutens D, Chandra SS, Walsham J, Russell T, Bhuta S,	ICU	PREdiction and Diagnosis using Imaging and Clinical biomarkers Trial in Traumatic Brain Injury: the value of Magnetic	MRFF	\$1,760,000	4 years 2020-2023

Ross JP, Winter C, Senthuran S, <b>Bellapart J, Reade MC</b>		Resonance Imaging (PREDICT-TBI).			
<b>Reade MC</b> , Marks D, Weinberg L, Irving D, McQuilten Z, French C, Royse A, Bannon P, Johnson L, Gattas D	ICU	A phase III multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding (The Cryopreserved vs. Liquid Platelets trial: CLIP-II).	NHMRC		5 years 2018-2023
Shehabi Y, <b>Reade MC</b> , Campbell L, Howe B, Webb S, Bellomo R, McArthur C, Presneill J, Hodgson C, Bailey M, Murray L.	ICU	Early Sedation with Dexmedetomidine in Older Ventilated Critically Ill Patients: SPICE IV Trial	NHMRC	\$5,000,000	4 years 2019-2024
Jessica Schults, Clair Sullivan, Aida Brankovic, <b>Kevin Laupland</b> , Patrick Harris	Intensive Care	Prediction of catheter associated bloodstream infection in critically ill adults	CSIRO IDR and AMR Mission-Affiliated Projects	\$153, 698.00	2 years 2022-2023
French C, Nichol A, Bellomo R, Cooper DJ, Bailey M, Higgins A, McArthur C, Hodgson C, Gabbe B, Duranteau J, Presneill J, Rosenfeld J, Napolitano L, Skrifvars M, <b>Reade MC</b> , Pettila V.	ICU	ErythroPOietin alfa to prevent mortality and reduce severe disability in critically ill TRAUMA patients: a multicentre, stratified, double blind, placebo randomised controlled trial. (The EPO-TRAUMA trial)	MRFF	\$3,500,000	5 years 2019-2024
Mahesh Ramanan, <b>Kevin Laupland</b>	Intensive Care	A novel database-integrated platform for conducting randomised clinical trials in intensive care	Metro North Collaborative Research Grants	\$49,724.32	2 years 2022-2023
Jessica Schults, Clair Sullivan, Aida Brankovic, <b>Kevin Laupland</b> , Patrick Harris	Intensive Care	Prediction of catheter associated bloodstream infection in critically ill adults	CSIRO IDR and AMR Mission-Affiliated Projects	\$153, 698.00	2 years 2022-2023
<b>ROBERTS, Jason A;</b> HODGE, Anthony; *WALLIS, Steven C; ELEY, Victoria A & TOGNOLINI, Angela R		Pharmacokinetic profile and breastmilk excretion of sugammadex in pregnant women (ANZCA grant administered by Metro North HHS)	Metro North Hospital and Health Service	\$7,986	1 year 2022-2023
Forbes J, Campbell D, Wake E, George S, Brandenburg C, Gibbs C, McCullough J, <b>Reade MC</b> , Jeffress M, <b>Bodnar D</b> , Abu Yosef M, Righton J, Adams N, Hamilton A, Winearls J, Casey J, Creswell P	ICU, Emergency Medicine	Composition, quality and delivery of Major Haemorrhage Protocols (MHP) and critical bleeding clinical practice guidelines across Queensland Health	Emergency Medicine Foundation Qld	95,000	2 years 2022-2023
Saxena M, Arnott C, Delcourt C, Hammond N, Bass F, Venkatesh B, Aneman A, <b>Reade MC</b> , Neilsen N, Skrifvars M	ICU	TEmperature, Mean arterial Pressure and SedaTion after Out of Hospital Cardiac Arrest (The STEPCARE Trial): A 3*2 Factorial Clinical Trial.	MRFF Clinical Trials Grant	844,000	4 years 2022-2025

Forbes J, Campbell D, Wake E, George S, Brandenburg C, Gibbs C, McCullough J, <b>Reade MC</b> , Jeffress M, <b>Bodnar D</b> , Abu Yosef M, Righton J, Adams N, Hamilton A, Winearls J, Casey J, Creswell P	ICU, Emergency Medicine	Composition, quality and delivery of Major Haemorrhage Protocols (MHP) and critical bleeding clinical practice guidelines across Queensland Health	Emergency Medicine Foundation Qld	95,000	2 years 2022-2023
Fitzgerald M and 49 co-investigators including <b>Reade MC</b> (CI-21)	ICU	AUS-mTBI: designing and implementing novel health informatics approaches to improve outcomes for people with mild TBI across Australia.	MRFF Traumatic Brain Injury Mission Stream 1 (Incubator)	3,000,000	5 years 2022-2026
EyeCP: Measuring Intracranial Pressure in the intensive care without brain surgery	ICU	EyeCP: Measuring Intracranial Pressure in the intensive care without brain surgery	Victorian Medical Research Acceleration Fund (VMRAF)	100,000	2 years 2022-2023
McQuilten Z, Cooper J, <b>Flint A</b> , French C, Higgins L, Irving A, <b>Reade MC</b> , Winearls J, Wood E.	ICU	International Point Prevalence Study of Intensive Care Unit Transfusion Practices – the InPUT-study – a point prevalence study of blood product use in intensive care units in Australia benchmarking blood product use against current guidelines and international practice	Australian National Blood Authority	\$155,000	2 years 2021-2022
Nasrallah F, Reutens D, Chandra SS, Walsham J, Russell T, Bhuta S, Ross JP, Winter C, Senthuran S, Bellapart J, <b>Reade MC</b>	ICU	PREdiction and Diagnosis using Imaging and Clinical biomarkers Trial in Traumatic Brain Injury: the value of Magnetic Resonance Imaging (PREDICT-TBI).	MRFF	\$1,760,000	4 years 2020-2023
<b>Reade MC</b> , Marks D, Weinberg L, Irving D, McQuilten Z, French C, Royse A, Bannon P, Johnson L, Gattas D	ICU	A phase III multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding (The Cryopreserved vs. Liquid Platelets trial: CLIP-II).	NHMRC		5 years 2018-2023
Shehabi Y, <b>Reade MC</b> , Campbell L, Howe B, Webb S, Bellomo R, McArthur C, Presneill J, Hodgson C, Bailey M, Murray L.	ICU	Early Sedation with Dexmedetomidine in Older Ventilated Critically Ill Patients: SPICE IV Trial	NHMRC	\$5,000,000	4 years 2019-2024
French C, Nichol A, Bellomo R, Cooper DJ, Bailey M, Higgins A, McArthur C, Hodgson C, Gabbe B, Duranteau J, Presneill J, Rosenfeld J, Napolitano L, Skrifvars M, <b>Reade MC</b> , Pettila V.	ICU	ErythroPOietin alfa to prevent mortality and reduce severe disability in critically ill TRAUMA patients: a multicentre, stratified, double blind, placebo randomised controlled trial. (The EPO-TRAUMA trial)	MRFF	\$3,500,000	5 years 2019-2024
Mahesh Ramanan, <b>Kevin Laupland</b>	Intensive Care	A novel database-integrated platform for conducting randomised clinical trials in intensive care	Metro North Collaborative Research Grants	\$49,724.32	2 years 2022-2023
Jessica Schults, Clair Sullivan, Aida Brankovic, <b>Kevin Laupland</b> , Patrick Harris	Intensive Care	Prediction of catheter associated bloodstream infection in critically ill adults	CSIRO IDR and AMR Mission-Affiliated Projects	\$153,698.00	2 years 2022-2023

Forbes J, Campbell D, Wake E, George S, Brandenburg C, Gibbs C, McCullough J, <b>Reade MC</b> , Jeffress M, <b>Bodnar D</b> , Abu Yosef M, Righton J, Adams N, Hamilton A, Winearls J, Casey J, Creswell P	ICU, Emergency Medicine	Composition, quality and delivery of Major Haemorrhage Protocols (MHP) and critical bleeding clinical practice guidelines across Queensland Health	Emergency Medicine Foundation Qld	95,000	2 years 2022-2023
<b>ROBERTS, Jason A</b> ; HODGE, Anthony; *WALLIS, Steven C; ELEY, Victoria A & TOGNOLINI, Angela R		Pharmacokinetic profile and breastmilk excretion of sugammadex in pregnant women (ANZCA grant administered by Metro North HHS)	Metro North Hospital and Health Service	\$7,986	1 year 2022-2023
<b>ROBERTS, Jason A</b>		Prospective, Open-Label, Randomized Control Trial on Pharmacokinetics of Direct Oral Anticoagulant (Apixaban) in Prevention of Primary Nephrotic Syndrome Associated Thromboembolic Disease (RBWH admin)	Metro North Hospital and Health Service	\$11,946	1 year, 2022-2023
<b>ROBERTS, Jason A</b>		CT-Perfusion for neurological diagnostic evaluation: a prospective Canadian multicenter diagnostic test study	Centre Hospitalier de l'Universite de Montreal	\$21,438	1 year, 2022-2023
<b>ROBERTS, Jason A</b> ; LIPMAN, Jeffrey; *PATERSON, David & *ABDUL-AZIZ, Mohd H B		Continuous vs intermittent infusion of beta-lactam antibacterial drugs: impact on resistance and outcomes in sepsis - PMWP 170	United States Food and Drug Administration	546,843	1 year, 2022-2023
*ABDUL-AZIZ, Mohd H B; *PARKER, Suzanne L & * <b>ROBERTS, Jason A</b>		Optimising dosing regimens of antimicrobials in critically ill children on extracorporeal membrane oxygenation (ECMO)	Preclinical and Clinical Early Career Research	2021 - 2022	1 year, 2021 - 2022
<b>ROBERTS, Jason A</b> ; Slavin, M.; *PATERSON, David; COMANS, Tracy A; <b>LIPMAN</b> , Jeffrey; Landersdorfer, C.; Joynt, G.; Bellomo, R. & others	ICU	Centre of Research Excellence - REduce the burden of antimicrobial reSistance through oPtimal, persONalised Dosing (RESPOND)	NHMRC Centres of Research Excellence	\$3,000,000	5 years, 2021 - 2025
<b>ROBERTS, Jason A</b> ; TOGNOLINI, Angela R; JACKSON, Dwane L; ELEY, Victoria A; WYSSUSEK, Hildegard K; VAN ZUNDERT, Adrien A J & LIPMAN, Jeffrey		Intraoperative lignocaine infusions: Development of an optimised infusion dosing regimen for obese patients (Led by MNHHS)	Metro North Hospital and Health Service	28,000	1 year, 2021
*PARKER, Suzanne L; Lister, P.; * <b>ROBERTS, Jason A</b> ; *ABDUL-AZIZ, Mohd H B; SCHLAPBACH, Jan L; MATTKE, Adrian & *WALLIS, Steven C		PIMS Study: An investigation of the utility of Microsampling versus traditional blood sampling for antibiotic pharmacokinetics in Children (SCHS Wishlist Foundation grant administered by SCHHS)	Sunshine Coast Hospital and Health Service	\$4,844	1 year 2021-2022
* <b>ROBERTS, Jason A</b>		Optimising antibiotic dosing for critically ill patients	Queensland Advancing Clinical Research Fellowship	\$549,945	4 years 2020 - 2023

Forbes J, Campbell D, Wake E, George S, Brandenburg C, Gibbs C, McCullough J, <b>Reade MC</b> , Jeffress M, <b>Bodnar D</b> , Abu Yosef M, Righton J, Adams N, Hamilton A, Winearls J, Casey J, Creswell P	ICU, Emergency Medicine	Composition, quality and delivery of Major Haemorrhage Protocols (MHP) and critical bleeding clinical practice guidelines across Queensland Health	Emergency Medicine Foundation Qld	95,000	2 years 2022-2023
<b>*ROBERTS, Jason A</b> ; LIPMAN, Jeffrey; De Waele, J. & <b>*KOULENTI, Despoina</b>		Novel dosing regimens to maximise antibiotic effectiveness for treatment of pneumonia in the intensive care unit	NHMRC Project Grant	\$815,403	4 years, 2019-2023
<b>Jeremy Cohen</b>	Intensive Care	The SAHaRA Trial: Understanding the best red cell transfusion practice in patients with intracranial bleeding from a ruptured aneurysm	MRFF	\$902,752	2019, 4yrs
<b>Jeremy Cohen</b>	Intensive Care	Enhancing host defence mechanisms in severe bacterial infections	NHMRC	\$830,447	2017,5 years
<b>Dhanani, Jayesh; Ely, Victoria</b>	Anaesthesia/Intensive Care	Nebulised fentanyl for labour pain – a pharmacokinetic and feasibility study	ANZCA Research Grant	\$63,483.00	1 year 2022-2023
<b>Dhanani, Jayesh</b>	Intensive Care	Developing nebulised antiviral drug delivery in a human 3D ex vivo lung model to combat emerging respiratory viruses	HeIDI- CSIRO IDR and AMR Mission-Affiliated Project grant	\$228,913.00	1 year 2022
<b>Dhanani, Jayesh; Gray, Paul; Roberts, Jason; Reade, Michael; Lisec, Carl; Claus, Andrew</b>	Burns Unit / Intensive Care	Innovation in burns pain management: Does nebulized dexmedetomidine reduce or eliminate the requirement for conventional sedation and analgesia (intravenous ketamine and midazolam) for procedural pain management in burns patients? A pilot phase III randomised controlled crossover trial.	Royal Brisbane and Women's Hospital Foundation Grant Special Burns grant	\$59252.40	1 year 2022
<b>Pang, George; Futter, Christopher</b>	Anaesthesia / Intensive Care	Anaesthesia and Intensive Care - Development of hyper-realistic simulation models	Herston Biofabrication Institute		4 years 2021-2025
<b>Prof Julie McGaughran</b>	GHQ (UQ)	The TELO-SCOPE study: Attenuating Telomere Attrition with Danazol. Is there Scope to Dramatically Improve Health Outcomes for Adults and Children with Pulmonary Fibrosis	MRFF	\$1,828,446 (all sites)	2020-2025
<b>Prof Julie McGaughran</b>	GHQ (UQ)	Genomic Health Futures Mission: Achieving Equity in Genomic Health for Indigenous Australians (AEGH)	MRFF	\$499,990	Jun 2020-Jun 2023
<b>Prof Julie McGaughran</b>	GHQ (UQ)	Genomic Health Futures Mission: Genomic Autopsy	MRFF	\$3 200 000 (all sites)	July 2020 - June 2023



<b>Prof Julie McGaughran</b>	GHQ (UQ)	The TELO-SCOPE study: Attenuating Telomere Attrition with Danazol. Is there Scope to Dramatically Improve Health Outcomes for Adults and Children with Pulmonary Fibrosis	MRFF	\$1,828,446 (all sites)	2020-2025
<b>Prof Julie McGaughran</b>	GHQ	Genomic Health Futures Mission: The Australian Undiagnosed Diseases Network (UDN-Aus): An internationally networked national approach for transforming diagnosis for individuals living with rare diseases	MRFF	\$3 000 000 (all sites)	2021 - 2023
<b>Prof Julie McGaughran</b>	GHQ	Australian Genomics	NHMRC	\$15,000,000	2020-2023
<b>Prof Julie McGaughran</b>	GHQ	Genomic Health Futures Mission: Mackenzie's Mission	MRFF	\$20 000 000 (all sites)	2020 - 2023
<b>Dr Chirag Patel</b>	GHQ	National rapid genomic diagnosis program for critically ill children	MRFF	\$5,000,000 (all sites)	2020-2023
<b>Dr Chirag Patel Dr Lindsay Fowles</b>	GHQ	Statewide Renal Clinical Network Genomics Education Project	Queensland Genomics	N/A	Jul 2020- Jun 2021
<b>Dr Chirag Patel</b>	GHQ	KidGen Clinics, Education, Data and Research (KidGen CEDAR): Improving Care and Outcomes of Australians with Genetic Kidney Disease	Department of Health	\$693,000 (all sites)	Jul 2020- Jun 2023
<b>Dr Chirag Patel</b>	GHQ	A national large-scale automated reanalysis program to increase rare disease diagnosis	MRFF	\$3,000,000 (all sites)	Jun 2021- May 2024
<b>Dr Chirag Patel</b>	GHQ	The KidGen National Kidney Genomics Program – improving genomic outcomes for Australian families with genetic kidney disease	MRFF	\$3,000,000 (all sites)	Jun 2021- May 2025
<b>Dr Chirag Patel</b>	GHQ	The Australian Functional Genomics Network	MRFF	\$6,000,000 (all sites)	Jun 2021- May 2026
<b>Dr Lindsay Fowles Dr Chirag Patel Aimee Dane Meg Jeppesen Sarah Smith Chiyen Lau</b>	Genomics Institute, Metro North, Pathology QLD	Delivering Value-Based Healthcare Through a Genetic Testing Stewardship Program	MNHHS LINK Program	\$125,000	Jul 2021- Jun 2022
<b>Dr Chris Richmond</b>	GHQ	“Cross-disciplinary genomic training program: Building workforce capability and inter-specialty collaboration”	AG/MRFF	\$250,000	Oct 2022- Dec 2023
<b>Gunjeet Minhas, Andrew Claus, Scott Farrell, Angela Tognolini, Emma Ballard and Maree Smith</b>	Tess Cramond Pain and Research Centre	A pilot randomised controlled trial of lidocaine for post-traumatic and post-surgical neuropathic pain: Does dose or patient profile modify the outcome?	Australian and New Zealand College of Anaesthetists, Novice Investigator Grant	\$20,000	2yrs 2022-2023

<b>Prof Julie McGaughan</b>	GHQ (UQ)	The TELO-SCOPE study: Attenuating Telomere Attrition with Danazol. Is there Scope to Dramatically Improve Health Outcomes for Adults and Children with Pulmonary Fibrosis	MRFF	\$1,828,446 (all sites)	2020-2025
<b>Scott Farrell, Paul Gray, Michelle Sterling, Peter Cabot, Andrew Claus, Annina Schmid, Genesta Nicolson and Kevin Chu</b>	RECOVER Institute and Tess Cramond Pain and Research Centre	Development of small nerve fibre pathology in chronic whiplash-associated disorder	RBWH Foundation Research Project Grant	\$65,000	2 yrs 2022-2023
<b>Jayesh Fhanani, Carl Lisec, Michael Reade, Paul Gray, Jason Roberts, Andrew Claus, Amelia Perri, Cheryl Fourie, Amelia Kivermore, Anite Plaza and Jason Pincus</b>	Department of Intensive Care, Stuart Pegg Adult Burns Unit and Tess Cramond Pain and Research Centre	Does nebulized dexmedetomidine reduce or eliminate the requirement for conventional sedation and analgesia (intravenous ketamine and midazolam) for procedural pain management in burns patients? A pilot phase III randomised controlled crossover trial.	RBWH Burns Research Grant	\$60,000	2 yrs 2022-2023

### Current RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Daniel Bodnar</b>	<b>Gary Mitchell, Nathan Brown, James Hughes, Kevin Chu</b>	How long can a clinician wearing personal protective equipment safely work in a high-risk isolation area during one continuous shift?	
<b>Emily Brownlee</b>	<b>Louise Cullen, Jaimi Greenslade, Will Parsonage, Tracey Hawkins, Laura Foran, Elly McCormick, James Hughes, Jessica Carl, Aaron Robinson, Iliah Said</b>	Relief of chest pain in the Emergency Department (RELIEF)	
<b>John Burke</b>	Paul Corry (QUT), Belinda Spratt (QUT), <b>Nathan Brown, Kevin Chu</b>	Modelling emergency department patient flow under normal operating conditions and in a pandemic	
<b>Kevin Chu</b>	<b>Judith Bellapart, Craig Winter, Rosalind Jeffree, Jeffrey Lipman, Jacobus Ungerer (Pathology Qld), Anita Pelecanos (QIMR Berghofer), Anthony Brown, Nathan Brown</b>	Timing of lumbar puncture for the detection of xanthochromia in suspected subarachnoid haemorrhage	
<b>Peter Del Mar</b>	<b>Nathan Brown, Min Juong Kim, Joon Min Park</b>	Impact of COVID-19 pandemic on emergency department patient volume and flow	
<b>Louise Cullen</b>	<b>Jaimi Greenslade, William Parsonage, Laura Stephensen</b>	Use of the Siemen's point of care high sensitivity troponin assay to rapidly rule out acute myocardial infarction	

<b>Jaimi Greenslade</b>	<b>Louise Cullen, William Parsonage (RBWH Cardiology)</b> , Nicholas Graves (QUT), Siegfried Perez (Logan Hospital), Fran Kinnear (TPCH), Christian Hamilton-Craig (TPCH), Niranjan Gaikwad (TPCH), <b>Tracey Hawkins</b>	Limit of detection in the emergency department (LEGEND) trial: a pre-post intervention trial of a clinical decision rule to rule out acute myocardial infarction	
<b>Elly McCormick</b>	<b>Jaimi Greenslade</b> , Julia Crilly (GCUH), P Brough, <b>Alex Markwell, Melanie Rule, James Hughes, Laura Foran, Emily Brownlee</b>	Helping our healers: health and performance of ED staff	
<b>Julian Williams</b>	<b>Jaimi Greenslade, Mercedes Ray, Angela Hills, Hayley Carmichael.</b>	ICARUS - Intervention with Concentrated Albumin for Resuscitation of Undifferentiated Sepsis.	
<b>Alan Coulthard</b>	<b>Kate Mahady, Grace Aw, Ken Mitchell</b>	Clotild smart guidewire system evaluation in endovascular thrombectomy procedure	0
<b>Alan Coulthard</b>	<b>Rebecca Liang, Marita Prior, Ee Shern Liang, Anita Pelecanos, Jeffery Lipman, Jason Roberts, Steve O'Donoghue</b>	EPICCS II	8
<b>Alan Coulthard</b>	<b>Lindy Jeffree, Nicole Waters, Thomas Robertson, David Reutens, Maria Saithi, Jeff Hocking</b>	High field magnetic resonance imaging of hippocampal sclerosis	
<b>Karen Dobeli</b>	Peter Kench, Yunshan Zhao, Kelly Chu	Theoretical comparison of Hounsfield unit threshold-based bolus tracking and enhancement curve-based bolus tracking for CT angiography using contrast media enhancement patterns from normal CT brain perfusion examinations	N/A
<b>Ee Shern Liang</b>	<b>Alan Coulthard, Craig Winter, Kennedy Wong, Rohan Tollenare, Marita Prior</b>	High resolution vessel wall imaging in ruptured intracranial aneurysms	3
<b>Rebekah Onsley</b>	<b>Karen Dobeli, Marita Prior</b>	Observer performance when optimising scan and reconstruction parameters affecting dose for detection of liver lesions	N/A
<b>Katherine McCoombe</b>	<b>Karen Dobeli</b> , Peter Kench, Steven Meikle, Stacey Llewellyn	Uric acid versus no uric acid urinary calculi: in vivo differentiation using detector-based spectral CT	N/A
<b>Katherine McCoombe</b>	<b>Karen Dobeli</b> , Peter Kench, Steven Meikle, Dean McCoombe, <b>Timothy Wastney</b> , Stacey Llewellyn	Virtual non contrast (vNCT) reconstruction compared with true non contrast (tNCT) in spectral CT Urogram for the detection of renal calculi in patients with haematuria	N/A
<b>Karin Steinke Lizbeth Kennedy</b>	<b>Catherine Bettington, Gary Pratt, Philip Chan</b>	MASTER	2
<b>Jayesh Dhanani</b>	Jason Roberts, <b>Michael Reade, Jason Pincus</b> , Hafiz Abdul-Aziz, <b>Melissa Lassig-Smith, Janine Stuart, Cheryl Fourie</b>	A comparative study of plasma pharmacokinetics of intravenous and nebulized sedatives and analgesic agents in mechanically ventilated patients: a single centre, prospective observational study - PISA	41 Total 8 in 2022
<b>Liam Coulthard</b>	<b>Charles Yates</b> , Trent Woodruff, <b>Kevin Laupland</b>	Investigating the PROfile of complement activation in relation to Vasospasm, delayed cerebral Ischameia and aneurysmal Subarachnoid haemorrhage Outcomes - PROcVISO	109 Total 32 in 2022

<b>Jayesh Dhanani</b>	<b>Eddie Shen</b> , Simon Foster, <b>Amelia Livermore</b> , <b>Kevin Laupland</b> , James Hudson	The role of bromodomain and extra-terminal domain (BET) containing protein inhibitors in a translational model of sepsis-induced myocardial dysfunction -BEST/ BETi	47 Total 47 in 2022
<b>Prof Julie McGaughran</b>	Prof Chris Semsarian (Co lead), AGHA Flagship, <b>Linda Wornham</b> (GC), <b>Rachel Austin</b> (Coord), <b>Michael Quinn</b> (PO), <b>Dr Karin Van Spaendonck-Zwarts</b>	Cardiovascular Genetic Disorders Flagship (AGHA)	0 (134 total)
<b>Prof Julie McGaughran &amp; Dr Chirag Patel</b>	Genomic Institute	Whole Genome Sequencing (WGS) Partnership Program	300 total
Dr Mohammad Al-Shinnag, <b>Dr Helen MarFan</b>	Dr Jonas Bjorkman, Dr Shu Fen Lee, <b>Rachel Austin (GC)</b>	Association between uterine serous carcinoma and BRCA mutation (USC & BRCA)	31 total
<b>Nicole Andrews</b>	David Ireland (CSIRO), Marlien Varnfield (CSIRO), Cate Sinclair (Pain Specialists Australia), Michael Deen (MSHHS), Kathleen Cooke (St Vincents), Helen Rowe (The Therapy Space), Atiyeh Vaezipour (UQ), Esther Smits (UQ)	Is app gamification effective in increasing consumer engagement and satisfaction? An evaluation of gamification for a chronic pain monitoring app.	12
<b>Nicole Andrews</b>	Marlien Varnfield (CSIRO), David Ireland (CSIRO)	Towards understanding how much is too much for individuals with chronic pain	0
<b>Nicole Andrews</b>	<b>Olivia Zheng (Trauma Service)</b> , <b>Jodie Ross (Trauma Service)</b> , Venerina Johnston (UQ), Elise Gane (UQ), Esther Smits (UQ), Charlotte Brakenridge (UQ), <b>Paul Gray</b> , <b>(Tess Cramond Pain and Research Centre)</b> , <b>Michael Rudd (Trauma Service)</b>	An investigation of the prevalence, impact, and management of chronic pain post trauma at a tertiary public hospital	NA
<b>Nicole Andrews</b>	<b>Andrew Claus (TCPRC)</b> , David Ireland (CSIRO), Daria Westerman (Queensland Children's Hospital), Mikaela Schlumpf (Queensland Children's Hospital), Jenny Strong (UQ), Tanya Rose (UQ), Pranavie Vijayakumar (CSIRO), Elizabeth Hay (UQ), Lyza Burvill (UQ)	Differences in language used and pain education needs across different age groups in a persistent pain cohort	5
<b>Nicole Andrews</b>	<b>Andrew Claus (TCPRC)</b> , <b>Riley O'Donohue (Psychology)</b> , <b>Megan Murdoch (Physiotherapist)</b> , Hang Ding (UQ), Atiyeh Vaezipour (UQ), <b>Paul Gray (TCPRC)</b> , Trevor Russell (UQ)	Pain management programs: uptake and adherence	0
<b>Nicole Andrews</b>	<b>Fatima Amershi (OT)</b> , <b>Riley O'Donohue (Psychology)</b> , <b>Andrew Claus (TCPRC)</b> , <b>Paul Gray (TCPRC)</b> , Trevor Russell (UQ), Joshua Simmich (UQ), Anton Pak (UQ)	Enhancing the management of chronic pain: A new eHealth model to extend on-site care and benefits back into the community	0
<b>Gunjeet Minhas</b>	<b>Paul Gray</b> , <b>André Van Zundert</b> , <b>Andrew Claus</b> , <b>Scott Farrell</b> , <b>Angela Tognolini</b> , Emma Ballard, Maree Smith.	A pilot randomised controlled trial of lidocaine for post-traumatic and post-surgical neuropathic pain: Does dose or patient profile modify the outcome?	0

<b>Genesta Nicolson</b>	<b>Zoe Vella, Angela Wills, Andrew Claus, Paul Gray</b>	Persistent Pelvic Pain at the Tess Cramond Pain and Research Centre: An audit of demand, referral sources and services provided.	NA
<b>Zoe Vella</b>	<b>Joseph Parmenter, Andrew Claus, Paul Gray</b>	An audit of Qscript use among general practitioners who referred patients to two Queensland persistent pain management services.	NA
<b>Paul Gray</b>	<b>Andrew Claus, Thanh Pham, Layli Rahmanian</b>	An audit of gabapentinoid drug prescription with patients attending the Tess Cramond Pain and Research Centre.	NA
<b>Nicole Marsh</b>	<b>Claire Rickard, Amanda Corley, Emily Larsen, Fiona Coyer</b>	Securing jugular central venous lines with dressings fixed to a liquid adhesive (Mastisol) in an Intensive Care Unit population (STICKY Trial)	

## Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
James Hughes (QUT)	<b>Chu</b> K, Nguyen A, Douglas C, <b>Brown</b> N, Jones L	From Big Data to the Bedside – Answering big questions in emergency department pain care using artificial intelligence and patient-reported outcomes	
Kate Curtis (University of Sydney)	Hughes J, <b>McGlone</b> M, <b>Owens</b> L, <b>Brown</b> N	Improving the safety and quality of emergency nursing care	
James Hughes (QUT)	Anthony Nguyen (CSIRO), <b>Nathan Brown, Kevin Chu</b> , Clint Douglas (QUT/MNHHS), Lee Jones (QUT)	The application of machine and deep learning techniques to the identification of patients arriving in pain to the adult emergency department	
Shane George (GCUH)	<b>Catherine Hurn, Frances Williamson, Anthony Holley</b>	Fibrinogen early in children with severe trauma study (FEISTY Junior)	
Ann-Maree Kelly	<b>Kevin Chu</b> , and the HEAD Study investigators.	Headache in Emergency Departments: A multinational observation study (HEAD Study).	
<b>David Clark</b>	Jacobus Ungerer, Anna Zournazi, <b>Karen Dobeli</b>	A Phase 2 study of efficacy: The validation of Gastrografin measurement in postsurgical samples following low anterior resection where the rectal tube is flushed with Gastrografin	23
Kirsten Hepburn	<b>Pedro Franca Gois, Helen Healy, Martin Wolley, Prianka Puri, Dwarakanathan Ranganathan, Carla Scuderi, Nigel Mott, Michelle Rice, Huan Zhang</b>	DABBLE trial	
Giovanni Mandarano	<b>Karen Dobeli</b> , Jacqueline Schneicher	Analysing spectral detector CT images with IntelliSpace Discovery software to map zinc and magnesium levels in the prostate gland to distinguish normal and disease affected tissue	N/A
<b>Andreas Obermair</b>	<b>Shohreh Rezai, Ivana Rizzuto</b> , Anna Lane	External validation of the diagnostic performance of various malignancy scoring models for adnexal masses.	
<b>Ryan Sommerville</b>	<b>Charles Lin, Jennifer Gillespie, Paul Thomas, Brett Hughes</b> , Gishan Ratnayake, Chris Oosthuizen, Catherine Barnett, Ashivini Abeysekara, <b>Jason Papacostas</b> , Touraj Taheri	Perineural Spread of Head and Neck Cancers	1



<b>David Fielding</b>	<b>Karin Steinke</b>	Improving genomic testing rate for inoperable lung cancer patients - combining imaging and cell free tumour DNA.	
<b>Nicole Gavin</b>	<b>Samantha Keogh, Nicole Marsh</b> , Louise Marquart, <b>Robyn Matthews, Katrina Southam, Karen Dobeli, Catherine O'Brien</b>	First-time peripheral intravenous catheter success in patients undergoing computerised tomography with intravenous contrast	N/A
<b>Kirsten Hepburn</b>	<b>Pedro Franca Gois, Helen Healy, Martin Wolley, Carla Scuderi, Dwaraka Ranganathan, Nigel Mott</b>	Desmopressin Acetate (DDAVP) to prevent post-Biopsy BLEeding in percutaneous kidney biopsy: a randomized, double-blind, placebo-controlled trial.	
<b>Owen Ung</b>	Michael Wagels <b>Karin Steinke, Clare Berry</b> , Gail Durbridge, Markus Kerr	Clinical trial evaluating medical-grade polycaprolactone-PCL breast scaffold implantation with autologous fat grafting for breast implant revision and congenital defect correction surgery. (3D scaffold-guided breast surgery)	
<b>Kowsalya Murugappan</b>	<b>Karin Steinke</b> , Colleen Niland, Aleks Edmundson	Phase I Study investigating the safety and efficacy of MagSense HER2 (Human Epidermal Growth Factor Receptor 2) Test Reagent using MRI and MagSense Instruments in patients with HER2-positive breast cancer.	
Jason Roberts	<b>Jeffrey Lipman, Jayesh Dhanani, Cheryl Fourie, Janine Stuart</b> , Andrew Udy, Cornelia Landersdorfer, Hafiz Abdul-Aziz, Menino Osbert Cotta, Steven Wallis, <b>Nermin Karamujic</b> , Sia Athanasas, Jan De Waele, Jean-Yves Lefrant, Claire Roger, Lowell Ling, Helmi Sulaiman, Mohd Shahnaz Hasan, Mohamad Fadhil Hadi Jamaluddin	A multi-centre study to define novel individualised dosing regimens to maximise antibiotic effectiveness for treatment of pneumonia in ICU – INTENSE PNEUDOS	9 Total 4 in 2022
Jason Roberts	<b>Jeffrey Lipman, Jayesh Dhanani, Kevin Laupland, Patrick Harris, Jacobus Ungerer, Brett McWhinney</b> , Steven Wallis, Menino Osbert Cotta, Hafiz Abdul-Aziz, Gene, Chai, Adam Stewart, <b>Cheryl Fourie</b>	Pharmacokinetic/ pharmacodynamic-optimised beta-lactam dosing to prevent the emergence of bacterial resistance: a proof-of-concept - ROAD	21 Total 10 in 2022
Craig French	Alistair Nichol, Vicki Papanikolaou, Liadain Reid, Sally Huford, <b>Michael Reade</b>	A randomised, double-blind, placebo-controlled trial of erythropoietin alfa versus placebo in mechanically ventilated critically ill patients following traumatic injury – EPO TRAUMA	11 Total 9 in 2022
Deborah Cool	<b>Jason Pincus</b> , Dorrilyn Rajbhandari, Serena Knowles, Nicole Zytaruk, Diane Heels-Ansdell	Re-Evaluating the Inhibition of Stress Erosions and prophylaxis against gastrointestinal bleeding in the critically ill trial – REVISE	47 Total 43 in 2022
<b>Jeremy Cohen</b>	Antje Blumenthal, Bala Venkatesh	Longitudinal Assessment of WNT pathway activity in patients with sepsis and septic shock – WINTER 2	2 Total 2 in 2022
Andrew Udy	<b>Judith Bellapart</b> , Alexios Adamides, James Anstey, Michael Bailey, Jamie Cooper, Anthony Delaney, Kate Drummond, Matthias Hanggi, Lisa Higgins, Olivier Huet, Martin Hunn	Brain oxygen neuromonitoring in Australia and New Zealand assessment global trial – BONANZA GT	In Progress
Sanne de Bruin	<b>Michael Reade</b> , Alexander Vlaar	International point prevalence study of intensive care unit transfusion practices – InPUT	16 Total 16 in 2022

Fatima Nasrallah	<b>Judith Bellapart, David Reutens,</b> Shekhar Chandra, James Walsham, Trevor Russell, Sandeep Bhuta, Jason Ross, <b>Craig Winter,</b> Siva Senthuran	Prediction and diagnosis using imaging and clinical biomarkers trial in traumatic brain injury – PREDICT – TBI	45 Total 31 in 2022
<b>Jeffrey Lipman</b>	John Myburgh, <b>Jason Roberts</b> Stephen Brett, Menino Osbert Cotta, <b>Joel Dulhunty,</b> Dorrilyn Rajbhandari, Parisa Glass, <b>David Paterson,</b>	A phase III randomised controlled trial of continuous beta-lactam infusion compared with intermittent beta-lactam dosing in critically ill patients – BLING III	245 Total 41 in 2022
Rinaldo Bellomo	<b>Jeremy Cohen,</b> John Patava, Dorothy Li, Marcel Tanudji	A dose adjusted, open label, multi-centre study to determine the safety, tolerability and pharmacokinetics of STC3141 administered as an infusion for up to 72 hours in subjects with sepsis and normal or compromised renal function in an intensive care unit – REFINE	In Progress
Shane English	<b>Judith Bellapart,</b> M. Chasse, D. Fergusson, D. Griesdale, F. Lauzier, L. McIntyre, A. Tinmout, A. Turgeon, A. Delaney	Aneurysmal subarachnoid hemorrhage – red blood cell transfusion and outcome: A randomised controlled trial - SAHARA	7 Total 7 in 2022
James Walsham	Bala Venkatesh, John Myburgh, Simon Finfer, <b>Jeremy Cohen,</b> Naomi Hammond, Peter Kruger, Dorrilyn Rajbhandari, Jason Meyer	An open label randomised controlled clinical trial of different dosing regimens of fludrocortisone in septic shock with assessment of temporal changes in hormonal, inflammatory, and genetic markers of vascular responsiveness - FLUDRESS	12 Total 10 in 2022
Prof Kathryn North	<b>Prof Julie McGaughran</b>	Australia Genomics (AG)	See responses below
AGHA ICon Cancer Flagship	<b>Prof Julie McGaughran, Dr Helen Marfan, Rachel Austin, Dr Rachel Susman, Jan Wakeling (GC), Julie White (GC)</b>	AGHA: Preparing Australia for genomic medicine	56 total
Prof Zornitza Stark, Dr Sebastian Lunke	<b>Dr Chirag Patel, Prof Julie McGaughran, Dr Michael Quinn</b>	National rapid genomic diagnosis program for critically ill children (acute care)	7
Prof Hamish Scott, Assoc Prof Chris Barnett	<b>Prof Julie McGaughran Dr Chirag Patel</b>	Genomic autopsy of perinatal death	3
Prof Zornitza Stark	<b>Dr Chirag Patel</b>	A national large-scale automated reanalysis program to increase rare disease diagnosis	N/A
The Australian Functional Genomics Network	<b>Dr Chirag Patel Dr Di Milnes</b>	The Australian Functional Genomics Network	N/A
KidGen	<b>Dr Chirag Patel</b>	The KidGen National Kidney Genomics Program – improving genomic outcomes for Australian families with genetic kidney disease	N/A
kConFab (Lead by Stephen Fox)	<b>Julie McGaughran</b>	The Kathleen Cunningham National Research Consortium For Research on Familial Breast Cancer	N/A
QIMR-Berghofer (Lead by Barbara Leggett)	<b>Helen Mar Fan</b>	Identification of the Gene Causing Hereditary Flat Adenoma Syndrome (RBWH Research Foundation grant)	N/A
Prof Finlay Macrae (lead)	<b>Dr Helen Marfan (PI) Rachel Austin (CRA)</b>	A randomised double-blind dose noninferiority Trial of aspirin in Lynch syndrome. CaPP3	N/A
Prof Bettina Meiser	<b>Dr Rachel Susman, Rachel Austin</b>	A qualitative study to explore patient attitudes and system enablers to establishing a national genomics registry of inherited cancer predisposition	N/A

Prof Diane Fatkin	Dr Karin van Spaendonck-Zwarts <b>Prof Julie McGaughran</b> <b>Rachel Austin (GC contact)</b>	Molecular Mechanisms of Inherited Cardiomyopathies and Arrhythmias (TTNtv Penetrance study)	N/A
Prof Melissa Southey	<b>Dr Helen Marfan (PI)</b> <b>Rachel Austin (CRA)</b>	Breast Cancer Refined Analysis of Sequence Tests: Risk and Penetrance (BRASTRAP)	N/A
Prof Andrew Mallett	<b>Dr Chirag Patel</b> <b>Dr Lindsay Fowles (GC)</b>	Statewide Renal Clinical Network Genomics Education Project	N/A
Dr Honey Heussler	<b>Dr Chris Richmond</b>	CHQ Genomics of Intellectual Disability	N/A
Prof Martin Delatycki, Prof Edwin Kirk, Prof Nigel Laing	<b>Prof Julie McGaughran (site PI)</b> <b>Camron Ebzery (GC)</b> <b>Tenielle Clinch (GC)</b>	Genomic Health Futures Mission: McKenzie's Mission, Functional genomics	N/A
Prof John Christodoulou	<b>Prof Julie McGaughran (site PI), Dr Chris Richmond (AI), Rachel Austin (GC)</b>	Australian Undiagnosed Diseases Network (UDN-Aus)	7
Genomic Institute <b>Dr Lindsay Fowles (Co-Lead)</b> <b>Aimee Dane (Co-Lead)</b>	<b>Dr Chirag Patel (C)</b> Meg Jeppesen (PQ) Sarah Smith (PQ) Chiyan Lau (PQ) Saras Menon (PQ)	Delivering Value-Based Healthcare Through a Genetic Testing Stewardship Program	N/A
<b>Dr Mark Appleyard</b>	<b>Dr Helen Marfan (GHQ contact)</b> Kim Ryan (QLD Coordinator)	Pancreatic screening trial	> 9 total
Prof Georgia Chenevix-Trench Prof Melissa Southey Mary-Anne Young	Simone McInerney (Project manager) <b>Dr Di Milnes/Camron Ebzery (Site PI)</b> <b>Dr Helen Marfan (AI)</b> <b>Dr Rozanna Alli (AI)</b> <b>Rachel Austin (AI)</b> <b>Carol-Ann Verrenkamp (AI)</b> <b>Melanie Boon (AI)</b> <b>Belinda Creighton (AI)</b> <b>Simon Troth (AI)</b> <b>Aimee Dane (AI)</b> <b>Bree Ryan (AI)</b> <b>Sarah Jordan (AI)</b>	The PRiMo trial	56
Tony Roscioli (Chief Investigator) Alyssa Wilson (Program Manager)	<b>Dr Di Milnes</b> (state PI)	PreGen Antenatal Genomics and Newborn Care Study (PreGen)	N/A
Atiyeh Vaezipour (UQ)	Mark Horswill (UQ), Oscar-Oviedo Trespalacios (CARRS-Q), Venerina Johnston (UQ), Patricia Delhomme (IFSTTAR), <b>Nicole Andrews</b>	Improving the management of driving behaviour in individuals with chronic pain	0
Charlotte Brakenridge (UQ)	Venerina Johnston (UQ), Esther Smits (UQ), Elise Gane (UQ), <b>Nicole Andrews</b>	Impact of interventions on work-related outcomes for individuals with musculoskeletal injuries after road traffic crash: a systematic review	NA
Joshua Simmich (UQ)	Megan Ross (UQ), <b>Nicole Andrews (OT)</b> , Atiyeh	A systematic evaluation of mobile apps for the monitoring of pain: review of content and quality	NA

	Vaezipour (OT), Trevor Russell (UQ)		
Joshua Simmich (UQ)	<b>Nicole Andrews (OT), Andrew Claus (TCPRC), Megan Murdoch (Physiotherapy), Trevor Russell (UQ)</b>	Smartphone-based 6-Minute Walk Test in chronic pain: a validation study	18
Melanie Plingsinga (UQ)	Silvia Manzanero (JTI), Venerina Johnston (UQ), <b>Nicole Andrews (OT)</b> , Panos Barlas (JTI), Victoria McCreanor (JTI)	Characteristics and effectiveness of postoperative rehabilitation strategies in ankle fractures: a systematic review	NA
Fraser Labrom (UQ)	Geoffrey Askin, Paige Little, Maree Izatt, <b>Andrew Claus</b>	Three-dimensional segmental analysis of adolescent idiopathic scoliosis during growth.	NA
Phoebe Ng (UQ)	Kylie Tucker, <b>Andrew Claus</b> , Maree Izatt, Peter Pivonka	Neuromuscular control of upright posture in adolescents with and without idiopathic scoliosis.	NA
Gregory Pratt (QIMR)	Christina Bernardes, Joseph Kluver, <b>Paul Gray, Andrew Claus</b> , Stuart Ekberg, Renata Meuter, Matthew Bryant, Ivan Lin, Stephen Birch	Clinical Yarning: Improving communication and health outcomes for Aboriginal and Torres Strait Islander people living with chronic pain.	0
Nadine Foster (UQ)	Jenny Setchell, <b>Toby Loch-Wilkinson, Shaun O'Leary</b> , Gregory Cunningham, Mark Chatfield, Tracey Comans, Paul Hodges, <b>Paul Gray, Maree Raymer, Patrick Swete Kelly, Andrew Claus</b> , Manuela Ferreira, James van Gelder, Paulo Ferreira, Ian Harris, Rachel Buchbinder, Chris Maher, Ashish Diwan, James McAuley, Gavin Davis, Michael Selby, David Beard	The clinical and cost-effectiveness of lumbar fusion surgery compared to best conservative care for patients with persistent, severe low back pain: fusion versus best conservative care.	0
<b>Julie Vermeir (Hon Research Fellow)</b>	<b>Paul Gray</b> , Melanie White, Daniel Johnson, Geert Crombez, Dmitry Van Rycheghem	Testing the effects of a novel psychological program for adults with chronic pain.	129
<b>Scott Farrell (Hon Research Fellow)</b>	<b>Paul Gray</b> , Michele Sterling, Peter Cabot, <b>Andrew Claus</b> , Annina Schmid, <b>Genesta Nicolson</b> , Kevin Chu	Development of small nerve fibre pathology in chronic whiplash-associated disorder	0
Atiyeh Vaezipour (UQ)	Mark Horswill (UQ), Oscar-Oviedo Trespalacios (CARRS-Q), Venerina Johnston (UQ), Patricia Delhomme (IFSTTAR), <b>Nicole Andrews</b>	Improving the management of driving behaviour in individuals with chronic pain	0
Marianne Kirrane,	Mathilde Desselle, David Forrestal, Luke Wainwright, George Pang, Chris Futter, <b>Fiona Coyer</b>	Improving critical care outcomes by reducing the risk of pressure injuries to the face in prone patients	
Chaboyer W	Gillespie B, McInnes E, Rickard C, Ullman A, Scott I, <b>Coyer F</b>	Centre for Excellence – Wiser Wounds	

## Research Activity With a Specific Focus on First Nations People

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Katrina Starmer (Cairns Hospital)	<b>Louise Cullen, Laura Stephensen, Jaimi Greenslade, William Parsonage, Nathan Brown, Louise McCormack</b>	Prevalence of coronary artery disease in Aboriginal and Torres Strait Islander people presenting to the Emergency Department with suspected acute coronary syndrome	0
James Walsham	Bala Venkatesh, John Myburgh, Simon Finfer, <b>Jeremy Cohen</b> , Naomi Hammond, Peter Kruger, Dorrilyn Rajbhandari, Jason Meyer	An open label randomised controlled clinical trial of different dosing regimens of fludrocortisone in septic shock with assessment of temporal changes in hormonal, inflammatory, and genetic markers of vascular responsiveness - FLUDRESS	12 Total 10 in 2022
<b>Dylan Flaws</b>	Vivienne Tippett, Adrian Barnett, Amanda Croley, John Fraser, Jiville Iatu, Jayshree Lavans, <b>Kevin Laupland</b> , India Lye, Sue Patterson, Mahesh Ramanan, Alexis Tabah, Shruti Tayal, Andrew Teodorczuk, Oystein Tronstad	Tracking outcomes post intensive care – TOPIC	134 Total 50 in 2022
Yahya Shehabi	<b>Michael Reade</b> , Rinaldo Bellomo, Belinda Howe, Carol Hodgson, Jeffrey Presneill, Steve Webb, Ian Seppelt, Lewis Campbell, Colin McArthur, Rebecca Gresham, Rima Song, Sahra Thompson, Anna Hunt	Early sedation with dexmedetomidine vs placebo in older ventilated critically ill patients – OLD SPICE	3 Total 3 in 2022
Prof Margaret Kelaher	<b>Prof Julie McGaughran</b>	Genomic Health Futures Mission: Achieving Equity in Genomic Health for Indigenous Australians (AEGH)	N/A
Greg Pratt	<b>Prof Julie McGaughran</b> Kelly Dingli, Victoria Donoghue	Genetic Health Referral Pathways	N/A
Gregory Pratt (QIMR)	Christina Bernardes, Joseph Kluver, <b>Paul Gray, Andrew Claus</b> , Stuart Ekberg, Renata Meuter, Matthew Bryant, Ivan Lin, Stephen Birch	Clinical Yarning: Improving communication and health outcomes for Aboriginal and Torres Strait Islander people living with chronic pain.	0

## Research Publications

### Authors

Investigator	ORCID ID
Leanne Bennett	
Claire Bertenshaw	
Daniel Bodnar	<a href="https://orcid.org/0000-0002-1823-5620">https://orcid.org/0000-0002-1823-5620</a>
Anthony Brown	<a href="https://orcid.org/0000-0002-1448-0899">https://orcid.org/0000-0002-1448-0899</a>
Nathan Brown	<a href="https://orcid.org/0000-0001-7149-8895">https://orcid.org/0000-0001-7149-8895</a>
Emily Brownlee	<a href="https://orcid.org/0000-0002-1644-4541">https://orcid.org/0000-0002-1644-4541</a>



Julia Brownlie	
John Burke	<a href="https://orcid.org/0000-0001-7450-3127">https://orcid.org/0000-0001-7450-3127</a>
Kevin Chu	<a href="https://orcid.org/0000-0002-1709-7174">https://orcid.org/0000-0002-1709-7174</a>
Louise Cullen	<a href="https://orcid.org/0000-0001-6611-8229">https://orcid.org/0000-0001-6611-8229</a>
Peter Del Mar	<a href="https://orcid.org/0000-0001-7389-7339">https://orcid.org/0000-0001-7389-7339</a>
Elizabeth Doran	<a href="https://orcid.org/0000-0003-4823-938X">https://orcid.org/0000-0003-4823-938X</a>
Laura Stephensen	<a href="https://orcid.org/0000-0002-9976-3846">https://orcid.org/0000-0002-9976-3846</a>
Jaimi Greenslade	<a href="https://orcid.org/0000-0002-6970-5573">https://orcid.org/0000-0002-6970-5573</a>
Tracey Hawkins	<a href="https://orcid.org/0000-0001-9815-7150">https://orcid.org/0000-0001-9815-7150</a>
Angela Hills	
James Hughes	<a href="https://orcid.org/0000-0001-9387-2489">https://orcid.org/0000-0001-9387-2489</a>
Catherine Hurn	
David Kramer	<a href="https://orcid.org/0000-0002-1701-5132">https://orcid.org/0000-0002-1701-5132</a>
Kim Lai	
Trent Lipp	
Bill Lukin	<a href="https://orcid.org/0000-0001-8531-2529">https://orcid.org/0000-0001-8531-2529</a>
Jacqueline Marks	<a href="https://orcid.org/0000-0003-0808-1266">https://orcid.org/0000-0003-0808-1266</a>
Alexandra Markwell	<a href="https://orcid.org/0000-0002-0633-1754">https://orcid.org/0000-0002-0633-1754</a>
Ellyse McCormick	<a href="https://orcid.org/0000-0003-2462-8022">https://orcid.org/0000-0003-2462-8022</a>
Clancy McDonald	<a href="https://orcid.org/0000-0003-0583-017X">https://orcid.org/0000-0003-0583-017X</a>
Gary Mitchell	<a href="https://orcid.org/0000-0001-6440-3683">https://orcid.org/0000-0001-6440-3683</a>
Thomas Randell	<a href="https://orcid.org/0000-0002-1727-1988">https://orcid.org/0000-0002-1727-1988</a>
Rina Savage	
Matilda Schmidt	
Nicole Sng	<a href="https://orcid.org/0000-0002-5686-4655">https://orcid.org/0000-0002-5686-4655</a>
Sean Rothwell	<a href="https://orcid.org/0000-0002-6627-0498">https://orcid.org/0000-0002-6627-0498</a>
David Rosengren	
Jack Taylor	<a href="https://orcid.org/0000-0002-8922-5585">https://orcid.org/0000-0002-8922-5585</a>
Julian Williams	<a href="https://orcid.org/0000-0002-8366-7307">https://orcid.org/0000-0002-8366-7307</a>
Frances Williamson	<a href="https://orcid.org/0000-0002-5476-1791">https://orcid.org/0000-0002-5476-1791</a>
Rachael Anstey	

Alan Coulthard	<a href="https://orcid.org/0000-0003-1110-9207">https://orcid.org/0000-0003-1110-9207</a>
Naomi Dare	<a href="https://orcid.org/0000-0001-7067-878X">https://orcid.org/0000-0001-7067-878X</a>
Karen Dobeli	<a href="https://orcid.org/0000-0001-6655-8566">https://orcid.org/0000-0001-6655-8566</a>
Zachary Drew	
Michelle Fenech	<a href="https://orcid.org/0000-0003-40188-2645">https://orcid.org/0000-0003-40188-2645</a>
Jennifer Gillespie	<a href="https://orcid.org/0000-0001-7618-086X">https://orcid.org/0000-0001-7618-086X</a>
Craig Hacking	<a href="https://orcid.org/0000-0001-5998-8648">https://orcid.org/0000-0001-5998-8648</a>
James Harvey	
Kate Mahady	
Katherine McCoombe	
Ken Mitchell	
Nigel Mott	
Kathy Murthy	
Jennie Roberts	
Katrina Southam	<a href="https://orcid.org/0000-0001-5320-0362">https://orcid.org/0000-0001-5320-0362</a>
Alex Splatt	
Karin Steinke	<a href="https://orcid.org/0000-0003-0548-1512">https://orcid.org/0000-0003-0548-1512</a>
Rebecca Liong	<a href="https://orcid.org/0000-0002-6780-8034">https://orcid.org/0000-0002-6780-8034</a>
Timothy Wastney	
Marianne Kirrane	<a href="https://orcid.org/0000-0002-6822-8808">https://orcid.org/0000-0002-6822-8808</a>
Michael Reade	<a href="https://orcid.org/0000-0003-1570-0707">https://orcid.org/0000-0003-1570-0707</a>
Kevin Laupland	<a href="https://orcid.org/0000-0002-1205-5354">https://orcid.org/0000-0002-1205-5354</a>
Julie McGaughran	<a href="https://orcid.org/0000-0002-0926-7858">https://orcid.org/0000-0002-0926-7858</a>
Chirag Patel	<a href="https://orcid.org/0000-0002-6374-5224">https://orcid.org/0000-0002-6374-5224</a>
Helen Mar Fan	<a href="https://orcid.org/0000-0002-0267-4047">https://orcid.org/0000-0002-0267-4047</a>
Rachel Susman	<a href="https://orcid.org/0000-0002-3682-0620">https://orcid.org/0000-0002-3682-0620</a>
Rachel Austin	<a href="https://orcid.org/0000-0001-5311-2768">https://orcid.org/0000-0001-5311-2768</a>
Lindsay Fowles	<a href="https://orcid.org/0000-0001-6626-3004">https://orcid.org/0000-0001-6626-3004</a>
Michael Quinn	<a href="https://orcid.org/0000-0002-4501-5746">https://orcid.org/0000-0002-4501-5746</a>
Chris Richmond	<a href="https://orcid.org/0000-0002-9778-4344">https://orcid.org/0000-0002-9778-4344</a>
Jonathan Rogers	<a href="https://orcid.org/0000-0003-0760-8943">https://orcid.org/0000-0003-0760-8943</a>

Megan Higgins	<a href="https://orcid.org/0000-0002-9161-4475">https://orcid.org/0000-0002-9161-4475</a>
Lauren Hunt	<a href="https://orcid.org/0000-0002-2872-0144">https://orcid.org/0000-0002-2872-0144</a>
Camron Ebzery	<a href="https://orcid.org/0000-0003-3487-4542">https://orcid.org/0000-0003-3487-4542</a>
Linda Wornham	<a href="https://orcid.org/0000-0002-4483-8089">https://orcid.org/0000-0002-4483-8089</a>
Di Milnes	<a href="https://orcid.org/0000-0001-8779-5157">https://orcid.org/0000-0001-8779-5157</a>
Aimee Dane	<a href="https://orcid.org/0000-0001-7659-1474">https://orcid.org/0000-0001-7659-1474</a>
Nicole Andrews	<a href="https://orcid.org/0000-0002-7739-1738">https://orcid.org/0000-0002-7739-1738</a>
Fatima Amershi	<a href="https://orcid.org/0000-0001-9412-3383">https://orcid.org/0000-0001-9412-3383</a>
Paul Gray	<a href="https://orcid.org/0000-0002-1369-1483">https://orcid.org/0000-0002-1369-1483</a>
Andrew Claus	<a href="https://orcid.org/0000-0003-4030-9697">https://orcid.org/0000-0003-4030-9697</a>
Megan Murdoch	<a href="https://orcid.org/0000-0002-5201-758X">https://orcid.org/0000-0002-5201-758X</a>
Fiona Coyer	<a href="https://orcid.org/0000-0002-8467-0081">https://orcid.org/0000-0002-8467-0081</a>

## Publications in 2022

### Journal Articles (RBWH staff in bold)

1. **McGeorge S, Loh B, Shibu R, Dobeli K, Brown NJ, Esler R, Hacking C, Purvey M, Roberts MJ.** Plain x-ray misses many ureteric calculi: Time to challenge the old dogma? *BJUI Compass.* 2023;4(1):59-61.
2. Cameron CM, Vuong K, McWhinney B, Zournazi A, Manzanero S, Warren J, **Mitchell G, McCreanor V, Vallmuur K, Howell T, Ungerer JPJ.** Prevalence of alcohol consumption in emergency presentations: Novel approach using two biomarkers, ethanol and phosphatidylethanol. *Drug and Alcohol Review.* 2023;42(1):146-56.
3. Butterfield M, **Bodnar D, Williamson F, Parker L, Ryan G.** Prevalence of secondary insults and outcomes of patients with traumatic brain injury intubated in the prehospital setting: a retrospective cohort study. *Emerg Med J.* 2023;10.1136/emermed-2022-212513.
4. Zimmermann T, du Fay de Lavallaz J, Nestelberger T, Gualandro DM, Lopez-Ayala P, Badertscher P, Widmer V, Shrestha S, Strebel I, Glarner N, Diebold M, Miró Ó, Christ M, **Cullen L, Than M, Martin-Sanchez FJ, Di Somma S, Peacock WF, Keller DI, Bilici M, Costabel JP, Kühne M, Breidhardt T, Thiruganasambandamoorthy V, Mueller C.** International Validation of the Canadian Syncope Risk Score. *Ann Intern Med.* 2022;175(6):783-94.
5. **Williamson F, Lawton CF, Wullschlegler M.** Outcomes in traumatic cardiac arrest patients who underwent advanced life support. *Emerg Med Australas.* 2022:<https://doi.org/10.1111/742-6723.14096>.
6. Sweeny AL, Bourke C, Torpie TM, Sargeant S, **Hughes J, Watson J, Conroy S, Carrasco A, Tighe K, Thornton NS, Cumner A-S, Baird K.** Improving domestic violence screening practices in the emergency department: an Australian perspective. *Emerg Med J.* 2022;10.1136/emermed-2021-211167.
7. **Stephensen L, Greenslade J, Starmer K, Starmer G, Stone R, Bonnin R, Brazzale A, Drahm-Butler T, Campbell V, Davis T, Mowatt E, Brown N, Proctor K, Ashover S, Milburn T, McCormack L, Graves N, Gatton M, Mahoney R, Parsonage W, Cullen L.** Clinical characteristics of Aboriginal and Torres Strait Islander emergency department patients with suspected acute coronary syndrome. *Emerg Med Australas.* 2022:<https://doi.org/10.1111/742-6723.14138>.
8. **Schmidt M, Brownlie J, Arnold A, Lai K, Hughes J.** Emergency Clinicians interpretation and application of Anti-D guidelines. *Australian Journal of Advanced Nursing.* 2022;39(1).
9. Roberts T, Horner DE, **Chu K, Than M, Kelly A-M, Klim S, Kinnear F, Keijzers G, Karamercan MA, Wijeratne T, Kamona S, Kuan WS, Graham CA, Body R, Laribi S.** Thunderclap headache syndrome presenting to the emergency department: an international multicentre observational cohort study. *Emerg Med J.* 2022;39(11):803-9.
10. **Raman V, Bright M, Mitchell G.** A Brief Review of Bolus Osmotherapy Use for Managing Severe Traumatic Brain Injuries in the Pre-Hospital and Emergency Department Settings. *Trauma Care.* 2022;2(3):427-33.
11. Rajkumar Christopher A, Wereski R, **Parsonage W, Cullen L, Khamis R, Foley M, Harrell Frank E, Shun-Shin Matthew J, Mills Nicholas L, Al-Lamee Rasha K.** Association Between High-Sensitivity Cardiac Troponin, Myocardial Ischemia, and Revascularization in Stable Coronary Artery Disease. *J Am Coll Cardiol.* 2022;79(21):2185-7.
12. Potter JM, Hickman PE, **Cullen L.** Troponins in myocardial infarction and injury. *Australian Prescriber.* 2022;45(2):53-7.
13. Morgan R, Callander E, **Cullen L, Walker K, Bumpstead S, Hawkins T, Kuhn L, Egerton-Warburton D.** From little things, big things grow: An exploratory analysis of the national cost of peripheral intravenous catheter insertion in Australian adult emergency care. *Emerg Med Australas.* 2022;34(6):87-883.
14. Meek R, **Cullen L, Lu ZX, Nasis A, Kuhn L, Sorace L.** Potential impact of a novel pathway for suspected myocardial infarction utilising a new high-sensitivity cardiac troponin I assay. *Emerg Med J.* 2022;39(11):847.
15. **McCormick E, Devine S, Crilly J, Brough P, Greenslade J.** Measuring occupational stress in emergency departments. *Emerg Med Australas.* 2022:<https://doi.org/10.1111/742-6723.14101>.

16. Koerbin G, Potter JM, Pinto do Nascimento M, **Cullen L**, Scanlan SL, Woods C, Hickman PE. The intra-individual variation of cardiac troponin I: the effects of sex, age, climatic season, and time between samples. *Clinical Chemistry and Laboratory Medicine (CCLM)*. 2022;60(7):1101-9.
17. Kelly A-M, **Chu KH**, Kuan WS, Keijzers G, Kinnear FB, Cardozo-Ocampo A, the HS, Investigators HC. Is headache during pregnancy a higher risk for serious secondary headache cause? A HEAD study report. *Emerg Med Australas*. 2022;34(4):629-31.
18. **Greenslade JH**, Wilkinson S, Parsonage W, **Cullen L**. What is an acceptable risk of major adverse cardiac event soon after discharge from emergency? The patient's perspective. *Emerg Med J*. 2022;39(7):519-20.
19. **Greenslade JH**, Berndt S, **Stephensen L**, Starmer K, Starmer G, **Parsonage W**, Lau V, Drahm-Butler T, Davis T, Campbell V, Stone R, Bonnin R, Ashover S, Milburn T, Mowatt E, Proctor K, Brazzale A, **Cullen LA**. Value of single troponin values in the emergency department for excluding acute myocardial infarction in Aboriginal and Torres Strait Islander people. *Med J Aust*. 2022;217(1):48-9.
20. **Gilbert F**, **Mitchell G**, **Townsend S**, **Dhanani J**, **Sng N**. Role of the emergency department in implementing an extracorporeal membrane oxygenation cardiopulmonary resuscitation. *Emerg Med Australas*. 2022;https://doi.org/10.1111/742-6723.14100.
21. Eggers KM, Hammarsten O, Aldous SJ, **Cullen L**, **Greenslade JH**, Lindahl B, **Parsonage WA**, Pemberton CJ, Pickering JW, Richards AM, Troughton RW, Than MP. Diagnostic and prognostic performance of the ratio between high-sensitivity cardiac troponin I and troponin T in patients with chest pain. *PLoS One*. 2022;17(11):e0276645.
22. **Del Mar P**, Kim MJ, **Brown NJ**, Park JM, **Chu K**, **Burke J**. Impact of COVID-19 pandemic on emergency department patient volume and flow: Two countries, two hospitals. *Emerg Med Australas*. 2022;https://doi.org/10.1111/742-6723.14077.
23. Dawson Luke P, Smith K, **Cullen L**, Nehme Z, Lefkovijs J, Taylor Andrew J, Stub D. Care Models for Acute Chest Pain That Improve Outcomes and Efficiency. *J Am Coll Cardiol*. 2022;79(23):2333-48.
24. Dawson LP, Andrew E, Nehme Z, Bloom J, Liew D, Cox S, Anderson D, Stephenson M, Lefkovijs J, Taylor AJ, Kaye D, **Cullen L**, Smith K, Stub D. Development and validation of a comprehensive early risk prediction model for patients with undifferentiated acute chest pain. *IJC Heart & Vasculature*. 2022;40:101043.
25. **Cullen L**, **Stephensen L**, **Greenslade J**, Starmer K, Starmer G, Stone R, Bonnin R, Brazzale A, Drahm-Butler T, Campbell V, Davis T, Mowatt E, **Brown NJ**, Proctor K, Ashover S, Milburn T, **McCormack L**, Graves N, Parsonage W. Emergency Department Assessment of Suspected Acute Coronary Syndrome Using the IMPACT Pathway in Aboriginal and Torres Strait Islander People. *Heart Lung Circ*. 2022;31(7):1029-36.
26. **Cullen L**, **Greenslade J**, **Parsonage W**. Chest Pain Assessment: What Is Our Endgame? *Clin Chem*. 2022;68(2):261-3.
27. Crilly J, East K, Brown J, Zhang P, Byrnes J, Furyk J, **Duncan J**, Jones L, **Brown NJ**, Green D, **Rothwell S**, **Rosengren D**. The profile, clinical characteristics, and outcomes of alcohol- and non-alcohol-related patient presentations to Queensland emergency departments: a multi-site observational study. *Aust Health Rev*. 2022;46(6):701-9.
28. **Brownlee E**, **Greenslade JH**, Kelly A-M, Meek RA, **Parsonage WA**, **Cullen L**. Snapshot of suspected acute coronary syndrome assessment processes in the emergency department: A national cross-sectional survey. *Emerg Med Australas*. 2022;https://doi.org/10.1111/742-6723.14115.
29. **Brown NJ**, **Doran E**, **Greenslade JH**, **Lukin B**, Cottrell N, Jaramillo F, **Coombes I**, **Donovan P**, **Cullen L**. Retrospective study of the prevalence and characteristics of adverse drug events in adults who present to an Australian emergency department. *Emerg Med Australas*. 2022;34(4):547-54.
30. **Boots R**, **Xue G**, **Tromp D**, Rawashdeh O, **Bellapart J**, **Townsend S**, **Rudd M**, **Winter C**, **Mitchell G**, Garner N, **Clement P**, **Karamujic N**, **Zappala C**. Circadian Rhythmicity of Vital Signs at Intensive Care Unit Discharge and Outcome of Traumatic Brain Injury. *American Journal of Critical Care*. 2022;31(6):472-82.
31. Blokzijl J, Lee H, **Cullen L**, Coggins A, Golding M, Gillett M, Middleton PM, Ferreira GE, Machado GC, Maher CG, Traeger AC. Diagnoses and trends in use of imaging for low back pain in four Australian emergency departments between 2012 and 2019. *Emerg Med Australas*. 2022;34(4):539-46.
32. Badertscher P, du Fay de Lavallaz J, Hammerer-Lercher A, Mueller C, Zimmermann T, Lopez-Ayala P, Nestelberger T, Gualandro DM, Miró O, Keller DI, Martin-Sanchez FJ, Bürgler F, Than M, Widmer V, Christ M, **Cullen L**, Di Somma S, Peacock WF, Geigy N, Kühne M, Freese M, Salgado E, Martinez-Nadal G, Inostroza CIF, Costabel JP, Mandrión JB, Poepping I, Rentsch K, von Eckardstein A, Buser A, **Greenslade J**, Lohrmann J, for the BIXI. Clinical Utility of D-Dimer for Rule-Out or Rule-In of Venous Thromboembolism in Syncope. *Journal of Cardiovascular Translational Research*. 2022;https://doi.org/10.1007/s12265-022-0306-0.
33. Apple FS, Smith SW, **Greenslade JH**, Sandoval Y, **Parsonage W**, Ranasinghe I, Gaikwad NJ, Schulz K, **Stephensen L**, Schmidt CW, Okeson B, **Cullen L**. Single High-Sensitivity Point of Care Whole Blood Cardiac Troponin I Measurement to Rule Out Acute Myocardial Infarction at Low Risk. *Circulation*. 2022;146(25):1918-29.
34. **Liang ES**, **Wastney T**, **Dobeli K**, **Hacking C**. Virtual non-contrast detector-based spectral CT predictably overestimates tissue density for the characterisation of adrenal lesions compared to true non-contrast CT. *Abdom Radiol (NY)*. 2022 Jul;47(7):2462-2467.
35. **McCoombe K**, **Dobeli K**, Meikle S, Kench P. Sensitivity of virtual non-contrast dual-energy CT urogram for detection of urinary calculi: A systematic review and meta-analysis. *Eur Radiol*. 2022 Dec;32(12):8588-8596. doi: 10.1007/s00330-022-08939-5. Epub 2022 Jun 28. PMID: 35763094; PMCID: PMC9705483.
36. Rawle M, Pighills Q, Mendez D, **Dobeli K**. Radiographic technique modification and evidence-based practice: A qualitative study. *J Med Radiat Sci*. 2022 Aug 25. doi: 10.1002/jmrs.616. Epub ahead of print. PMID: 36008678.
37. **McGeorge S**, **Loh B**, **Shibu R**, **Dobeli K**, **Brown N**, **Esler R**, **Hacking C**, **Purvey M**, **Roberts M**. Plain x-ray misses many ureteric calculi: time to challenge the old dogma? *BJUI Compass*. 2022 Sep 26;4(1):59-61.
38. **Drew ZJ**, Chakrabarty S, Malghan R. Complicated appendicular diverticulitis. *J med Radiat Sci*. 2022 Sep;69(3):407:doi 10.1002/jmrs.573
39. Paritala PK, Anbananthan H, Hautaniemi J, Smith M, George A, Allenby M, Benitez Mendieta J, Wang J, **Maclachlan L**, **Liang ES**, **Prior M**, Yarlagadda PKDV, **Winter C**, Li Z. Reproducibility of the computational fluid dynamic analysis of a cerebral aneurysm monitored over a decade. *Sci Rep*. 2023 13;219. <https://doi.org/10.1038/s41598-022-27354-w>
40. Lau KK, **Steinke K**, Reis S, Cherukuri SP, Cejna M. Current trends in image-guided interventions. *Resp*. 2022 Aug;27(8):581-599. doi: 10.1111/resp.14315. Epub 2022 Jun 27.

41. Bournazos AM, Riley LG, Bommireddipalli S, ... Al-Shinnag M, ... **Higgins M**, ... **Milnes D**, ... **Patel C**, ... **Rodgers J**, ... Bennetts B, Cooper ST; Australasian Consortium for RNA Diagnostics. Standardized practices for RNA diagnostics using clinically accessible specimens reclassifies 75% of putative splicing variants. *Genet Med* (2022) 24:130-145
42. Morison LD, Meffert E, Stampfer M, Steiner-Wilke I, Vollmer B, Schulze K, Briggs T, Braden R, Vogel A, Thompson-Lake D, **Patel C**, Blair E, Goel H, Turner S, Moog U, Riess A, Liegeois F, Koolen DA, Amor DJ, Kleefstra T, Fisher SE, Zweier C, Morgan AT. In-depth characterisation of a cohort of individuals with missense and loss-of-function variants disrupting *FOXP2*. *J Med Genet*. 2022 Nov 3:jmedgenet-2022-108734. doi: 10.1136/jmg-2022-108734. Epub ahead of print. PMID: 36328423.
43. Soraru J, Chakera A, Isbel N, Mallawaarachichi A, Rogers N, Trnka P, **Patel C**, Mallett AJ. The Evolving Role of Diagnostic Genomics in Kidney Transplantation. *Kidney Int Rep* (2022) 7:1758-1771
44. Soraru J, Jahan S, Quinlan C, Simons C, Wardrop L, O'Shea R, Wood A, Mallawaarachichi A, **Patel C**, Stark Z, Mallett AJ. The HIDDEN Protocol: An Australian Prospective Cohort Study to Determine the Utility of Whole Genome Sequencing in Kidney Failure of Unknown Aetiology. *Front Med (Lausanne)* (2022) 9:891223
45. Beaman GM, Lopes FM, Hofmann A, Roesch W, Promm M, Bijlsma EK, **Patel C**, Akinci A, Burgu B, Knijnenburg J, Ho G, Aufschlaeger C, Dathe S, Voelckel MA, Cohen M, Yue WW, Stuart HM, Mckenzie EA, Elvin M, Roberts NA, Woolf AS, Newman WG. Expanding the HPSE2 Genotypic Spectrum in Urofacial Syndrome, A Disease Featuring a Peripheral Neuropathy of the Urinary Bladder. *Front Genet* (2022) 13:896125
46. Stutterd CA, Vanderver A, Lockhart PJ, Helman G, Pope K, Uebergang E, Love C, Delatycki MB, Thorburn D, Mackay MT, Peters H, Kornberg AJ, **Patel C**, Rodriguez-Casero V, Waak M, Silberstein J, Sinclair A, Nolan M, Field M, Davis MR, Fahey M, Scheffer IE, Freeman JL, Wolf NI, Taft RJ, van der Knaap MS, Simons C, Leventer RJ. Unclassified white matter disorders: A diagnostic journey requiring close collaboration between clinical and laboratory services. *Eur J Med Genet* (2022) 65:104551
47. Angelozzi M, Karvande A, Molin AN, Ritter AL, Leonard JMM, Savatt JM, Douglass K, Myers SM, Grippa M, Tolchin D, Zackai E, Donoghue S, Hurst ACE, Descartes M, Smith K, Velasco D, Schmanski A, Crunk A, Tokita MJ, de Lange IM, van Gassen K, Robinson H, Guegan K, Suri M, **Patel C**, Bournez M, Faivre L, Tran-Mau-Them F, Baker J, Fabie N, Weaver K, Shillington A, Hopkin RJ, Barge-Schaapveld DQCM, Ruivenkamp CA, Bökenkamp R, Vergano S, Seco Moro MN, Díaz de Bustamante A, Misra VK, Kennelly K, Rogers C, Friedman J, Wigby KM, Lenberg J, Graziano C, Ahrens-Nicklas RC, Lefebvre V. Consolidation of the clinical and genetic definition of a SOX4-related neurodevelopmental syndrome. *J Med Genet* (2022) 59:1058-1068
48. Viering D, Schlingmann KP, Hureaux M, Nijenhuis T, Mallett A, Chan M, van Beek A, van Eerde A, Coulibaly JM, Vallet M, Decramer S, Pelletier S, Klaus G, Kömhoff M, Beetz R, **Patel C**, Shenoy M, Steenbergen E, Anderson G, Bongers E, Bergmann C, Panneman D, Rodenburg R, Kleta R, Houillier P, Konrad M, Vargas-Poussou R, Knoers N, Bockenbauer D, de Baaij J. Gitelman-Like Syndrome Caused by Pathogenic Variants in mtDNA. *J Am Soc Nephrol* (2022) 33:305-325
49. Wong MD, **Patel C**, McTaggart S, Wainwright CE. Atypical haemolytic uraemic syndrome in a child with cystic fibrosis. *J Paediatr Child Health* (2022) 58:532-535
50. Miranda E Vidgen, **Lindsay F Fowles**, Satrio Nindy Istiko, Erin Evans, Katrina Cutler, Kate Sullivan, Jessica Bean, Louise Healy, Gary Hondow, Aideen M McInerney-Leo, Gregory Pratt, Deborah Robins, Stephanie Best, Keri Finlay, Priya Ramarao-Milne, Nicola Waddell. Evaluation of a Genetics Education Program for Health Interpreters: a pilot study. *Front Genet* (2022) <https://doi.org/10.3389/fgene.2021.771892>
51. Meiser B, Monnik M, **Austin R**, Nichols C, Cops E, Salmon L, Spurdle AB, Macrae F, Taylor N, Pachter N, James P, Kaur R. Stakeholder attitudes towards establishing a national genomics registry of inherited cancer predisposition: a qualitative study. *J Community Genet*. 2022 Feb;13(1):59-73. doi: 10.1007/s12687-021-00559-8. Epub 2021 Nov 2. PMID: 34727336; PMCID: PMC8799807.
52. Lepperdinger U, Angwin C, **Milnes D**, Sobey G, Ghali N, Johnson D, Brady AF, Kammin T, Bowen JM, Gröbner R, Lundberg P, Scott J, Zschocke J, van Dijk FS, Kapferer-Seebacher I. Oral characteristics in adult individuals with periodontal Ehlers-Danlos syndrome. *J Clin Periodontol*. 2022 Dec;49(12):1244-1252. doi: 10.1111/jcpe.13698. Epub 2022 Jul 29. PMID: 35833531; PMCID: PMC9796896.
53. Alankarage D, Enriquez A, Steiner RD, Raggio C, **Higgins M**, **Milnes D**, Humphreys DT, Duncan EL, Sparrow DB, Giampietro PF, Chapman G, Dunwoodie SL. Myhre syndrome is caused by dominant-negative dysregulation of SMAD4 and other co-factors. *Differentiation*. 2022 Nov-Dec;128:1-12. doi: 10.1016/j.diff.2022.09.002. Epub 2022 Sep 24. PMID: 36194927.
54. Vegas N, Demir Z, Gordon CT, ..., **McGaughan J**, Gerkes EH, Leoni C, Kroisel P, Tan TY, Henderson A, Terhal P, Basel-Salmon L, Alkindy A, White SM, Passos-Bueno MR, Pingault V, De Pontual L, Amiel J. Further delineation of auriculocondylar syndrome based on 14 novel cases and reassessment of 25 published cases. *Hum Mutat*. 2022 May;43(5):582-594. doi: 10.1002/humu.24349. Epub 2022 Mar 7. PMID: 35170830.
55. Kutasovic, J. R., Nones, K., Lakis, V., Koufariotis, L. T., Ferguson, K., Reed, ... **Mar Fan, H.**, **Higgins, M.** ... & Taeye, L. (2022). Comprehensive histopathologic and genomic analysis of a novel case of lipoblastoma-like tumour of the vulva demonstrating malignant behaviour. *Human Pathology Reports*, 30, 300678.
56. Primiero Clare A., Baker Amy M., Wallingford Courtney K., Maas Ellie J., Yanes Tatiane, **Fowles Lindsay**, Janda Monika, Young Mary-Anne, Nisselle Amy, Terrill Bronwyn, Lodge Jason M., Tiller Jane M., Lacaze Paul, Andersen Hayley, McErlean Gemma, Turbitt Erin, Soyer H. Peter, McInerney-Leo Aideen M. (2022) Attitudes of Australian dermatologists on the use of genetic testing: A cross-sectional survey with a focus on melanoma. *Frontiers in Genetics*, doi: 10.3389/fgene.2022.919134.
57. Vidgen ME, Cutler K, Bean J, Bunker D, **Fowles LF**, Healy L, Hondow G, Istiko SN, McInerney-Leo AM, Pratt G, Robins D, Waddell N, Evans E (2022) Community input in a genomic health implementation program: perspectives of a Community Advisory Group. *Frontiers in Genetics* doi.org/10.3389/fgene.2022.892475
58. **Rodgers J**, **Richmond CM**, **McGaughan J**. Delineating the CCDC22-related Ritscher-Schinzel syndrome phenotype in the original family. *Am J Med Genet A*. 2022 Nov;188(11):3324-3330. doi: 10.1002/ajmg.a.62963. Epub 2022 Sep 8. PMID: 36073196.
59. Yıldız Bölükbaşı E, Karolak JA, Szafranski P, Gambin T, Matsika A, McManus S, Scott HS, Arts P, Ha T, Barnett CP, Stankiewicz P, **Rodgers J**. Variable expressivity in a four-generation ACDMPV family with a non-coding hypermorphic SNV in trans to the frameshifting FOXF1 variant. *Eur J Hum Genet*. 2022 Oct;30(10):1182-1186



60. Niaz A, Truong J, Manoleras A, Fox LC, Blombery P, Vasireddy RS, Pickett HA, Curtin JA, Barbaro PM, **Rodgers J**, Roy J, Riley LG, Holien JK, Cohen SB, Bryan TM. Functional interaction between compound heterozygous TERT mutations causes severe telomere biology disorder. *Blood Adv.* 2022 Jun 28;6(12):3779-3791.
61. Vadlamudi L, Bennett CM, Tom M, Abdulrasool G, Brion K, Lundie B, Aung H, Lau C, **Rodgers J**, Riney K, Gordon L. A Multi-Disciplinary Team Approach to Genomic Testing for Drug-Resistant Epilepsy Patients-The GENIE Study. *J Clin Med.* 2022 Jul 21;11(14):4238.
62. **Richmond CM**, Ring F, Richmond L, Rossouw E, Ballard E, Birch P. 'Propped and prone' positioning reduces respiratory events in spontaneously breathing preterm infants: A randomised triple crossover study. *J Paediatr Child Health.* 2023 Jan;59(1):81-88. doi: 10.1111/jpc.16241. Epub 2022 Oct 31. PMID: 36314399.
63. Davenport R, Su JC, Nathalie J, **Richmond CM**, Yang Tan T, Robertson SJ. Clinical overlap of PHACE and LUMBAR syndromes. *Pediatr Dermatol.* 2022 Sep;39(5):752-756. doi: 10.1111/pde.15031. Epub 2022 Jul 27. PMID: 35896169.
64. Van der Spek J, den Hoed J, Snijders Blok L, Dingemans AJM, Schijven D, Nellaker C, Venselaar H, Astuti GDN, Barakat TS, Bebin EM, Beck-Wödl S, Beunders G, Brown NJ, Brunet T, Brunner HG, Campeau PM, Čuturilo G, Gilissen C, Haack TB, Hüning I, Husain RA, Kamien B, Lim SC, Lovrecic L, Magg J, Maver A, Miranda V, Monteil DC, Ockeloen CW, Pais LS, Plaiasu V, Raiti L, **Richmond C**, Rieß A, Schwaibold EMC, Simon MEH, Spranger S, Tan TY, Thompson ML, de Vries BBA, Wilkins EJ, Willemsen MH, Francks C, Vissers LELM, Fisher SE, Kleefstra T. Inherited variants in CHD3 show variable expressivity in Snijders Blok-Campeau syndrome. *Genet Med.* 2022 Jun;24(6):1283-1296. doi: 10.1016/j.gim.2022.02.014. Epub 2022 Mar 26. PMID: 35346573.
65. Stephenson SM, Costain G, Blok LER, **Richmond CM**... Dong X, et al. Germline variants in tumor suppressor FBXW7 lead to impaired ubiquitination and a neurodevelopmental syndrome. *American journal of human genetics.* 2022;109(4):601-17.
66. Rosser S, Sekar R, Laporte J, Duncombe GJ, Bendall A, Lehner C, Portmann C, **McGrath P**, Lust K, Ganter P, Kumar S. Late termination of pregnancy at a major Queensland tertiary hospital, 2010-2020. *Med J Aust.* 2022 Oct 17;217(8):410-414. doi: 10.5694/mja2.51697. Epub 2022 Sep 7. PMID: 36071581.
67. Dai P, Honda A, Ewans L, **McGaughran J**, Burnett L, Law M, Phan TG. Recommendations for next generation sequencing data reanalysis of unsolved cases with suspected Mendelian disorders: A systematic review and meta-analysis. *Genet Med.* 2022 Aug;24(8):1618-1629. doi: 10.1016/j.gim.2022.04.021. Epub 2022 May 14. PMID: 35550369.
68. Archibald AD, McClaren BJ, Caruana J, Tutty E, King EA, Halliday JL, Best S, Kanga-Parabia A, Bennetts BH, Cliffe CC, Madelli EO, Ho G, Liebelt J, Long JC, Braithwaite J, Kennedy J, Massie J, Emery JD, **McGaughran J**, Marum JE, Boggs K, Barlow-Stewart K, Burnett L, Dive L, Freeman L, Davis MR, Downes MJ, Wallis M, Ferrie MM, Pachter N, Scuffham PA, Casella R, Allcock RJN, Ong R, Edwards S, Righetti S, Lunke S, Lewis S, Walker SP, Boughtwood TF, Hardy T, Newson AJ, Kirk EP, Laing NG, Delatycki MB, The Mackenzie's Mission Study Team. The Australian Reproductive Genetic Carrier Screening Project (Mackenzie's Mission): Design and Implementation. *J Pers Med.* 2022 Oct 28;12(11):1781. doi: 10.3390/jpm12111781. PMID: 36579509; PMCID: PMC9698511
69. Sobering AK, Bryant LM, Li D, **McGaughran J**, Maystadt I, Moortgat S, Graham JM Jr, van Haeringen A, Ruivenkamp C, Cuperus R, Vogt J, Morton J, Brasch-Andersen C, Steenhof M, Hansen LK, Adler É, Lyonnet S, Pingault V, Sandrine M, Ziegler A, Donald T, Nelson B, Holt B, Petryna O, Firth H, McWalter K, Zyskind J, Telegrafi A, Juusola J, Person R, Bamshad MJ, Earl D; University of Washington Center for Mendelian Genomics; Tsai AC, Yearwood KR, Marco E, Nowak C, Douglas J, Hakonarson H, Bhoj EJ. Variants in PHF8 cause a spectrum of X-linked neurodevelopmental disorders and facial dysmorphism. *HGG Adv.* 2022 Mar 26;3(3):100102. doi: 10.1016/j.xhgg.2022.100102. Erratum in: *HGG Adv.* 2022 Dec 20;4(1):100168. PMID: 35469323; PMCID: PMC9034099.
70. Plinsinga, Melanie, Manzanero, Silvia, Johnston, Venerina, **Andrews, Nicole**, Barlas, Panos and McCreanor, Victoria (2022). Characteristics and effectiveness of postoperative rehabilitation strategies in ankle fractures: a systematic review. *Journal of Orthopaedic Trauma*, 36 (12), e449-e457
71. Vaezipour, Atiyeh, Horswill, Mark S., **Andrews, Nicole E.**, Johnston, Venerina, Delhomme, Patricia and Oviedo-Trespalacios, Oscar (2022). How distracting is chronic pain? The impact of chronic pain on driving behaviour and hazard perception. *Accident Analysis and Prevention*, 178 106856, 1-10.
72. Vaezipour, Atiyeh, **Andrews, Nicole**, Oviedo-Trespalacios, Oscar, **Amershi, Fatima**, Horswill, Mark, Johnston, Venerina and Delhomme, Patricia (2022). Exploring driving behaviour from the perspectives of individuals with chronic pain and health professionals. *Applied Ergonomics*, 102 103755, 103755
73. Vaezipour, Atiyeh, Oviedo-Trespalacios, Oscar, Horswill, Mark, Rod, J. E., **Andrews, Nicole**, Johnston, Venerina and Delhomme, Patricia (2022). The impact of chronic pain on driving behaviour: a systematic review. *Pain*, 163 (3), e401-e416
74. **Murdoch, Megan, Window, Peter, Morton, Caroline, O'Donohue, Riley**, Ballard,
75. Emma and **Claus, Andrew** (2022). People at a persistent pain service can walk it, but some struggle to talk about it: Reliability, detectable difference and clinically important difference of the six-minute walk test. *Musculoskeletal Care*. Sept 5, doi: 10.1002/msc.1687
76. Bernardes, Christina M., Ekberg, Stuart, Birch, Stephen, Meuter, Renata F. I., **Claus, Andrew**, Bryant, Matthew, Isua, Jermaine, **Gray, Paul**, Kluver, Joseph P., Williamson, Daniel, Jones, Corey, Houkamau, Kushla, Taylor, Marayah, Malacova, Eva, Lin, Ivan and Pratt, Gregory (2022) Clinician Perspectives of Communication with Aboriginal and Torres Strait Islanders Managing Pain: Needs and Preferences. *International Journal of Environmental Research and Public Health*, 19 (3) 1572, 1-17. doi:10.3390/ijerph19031572
77. Bernardes, Christina M., Ekberg, Stuart, Birch, Stephen, Meuter, Renata F. I., **Claus, Andrew**, Bryant, Matthew, Isua, Jermaine, **Gray, Paul**, Kluver, Joseph P., Williamson, Daniel, Jones, Corey, Houkamau, Kushla, Taylor, Marayah, Malacova, Eva, Lin, Ivan and Pratt, Gregory (2022) Communication and access to healthcare: Experiences of Aboriginal and Torres Strait Islander people managing pain in Queensland, Australia. *Frontiers in Pain Research*, doi: 10.3389/fpain.2022.1041968
78. Bernardes, Christina M., Ekberg, Stuart, Birch, Stephen, Meuter, Renata F. I., **Claus, Andrew**, Bryant, Matthew, Isua, Jermaine, **Gray, Paul**, Kluver, Joseph P., Williamson, Daniel, Jones, Corey, Houkamau, Kushla, Taylor, Marayah, Malacova, Eva, Lin, Ivan and Pratt, Gregory (2022) Yarning about pain: Evaluating communication training for health professionals at persistent pain services in Queensland, Australia



79. Crofton, Erin, Meredith, Pamela, **Gray, Paul**, Strong, Jennifer (2022) Sensory processing and detection thresholds of burn-injured patients: A comparison to normative data. *Burns* Nov; 48(7): 1590-1598 doi: 10.1016/j.burns.2021.10.006.
80. Crofton, Erin, Meredith, Pamela, **Gray, Paul**, Strong, Jennifer (2022) Use of sensory modulation approaches to improve compression garment adherence in adults after burn: An e-Delphi study. *Journal of the International Society for Burn Injuries*, doi: 10.1016/j.burns.2022.04.001
81. Neilsen G. & Coleman K. 2022 Healing wound management. *Clinics in integrated Care Vol11 ScienceDirect*
82. **Kevin B. Laupland**, Mahesh Ramanan, Kiran Shekar, **Marianne Kirrane**, **Pierre Clement**, Patrick Young, Felicity Edwards, Rachel Bushell, Alexis Tabah. Is intensive care unit mortality a valid survival outcome measure related to critical illness?
83. *Anaesthesia Critical Care & Pain Medicine*, Volume 41, Issue 1, 2022, 100996, ISSN 2352-5568, <https://doi.org/10.1016/j.accpm.2021.100996>.
84. Mathilde R. Desselle, **Fiona Coyer**, Isabel Byram, Roozbeh Fakhr, David P. Forrestal, Nicholas Green, Oliver Mason, Luke Wainwright, **Marianne Kirrane**. Safety and usability of proning pillows in intensive care: A scoping review. *Australian Critical Care*, 2022, ISSN 1036-7314, <https://doi.org/10.1016/j.aucc.2022.08.080>. (<https://www.sciencedirect.com/science/article/pii/S1036731422001916>)
85. **Annabel Levido**, **Pierre Clement**, **Bryan Gregory**, **Helena Morrey**, **Marianne Kirrane**, Adam Stott, **Clair Sullivan**, **Kristy Jackman**, **Jessica Brown**, **Anna Doubrovsky**, and **Fiona Coyer**
86. [Virtual Engagement of Families in the Intensive Care Unit During COVID-19: A Descriptive Survey of Family Members of Patients and Health Care Workers](#). *Telemedicine and e-Health* ahead of print <http://doi.org/10.1089/tmj.2022.0071>
87. **Reade MC**. Perspective: The Top 11 priorities to improve trauma outcomes, from system to patient level. *Critical Care*, in press, accepted 14 NOV 2022.
88. **Reade MC**, Marks DC, Howe B, McGuinness S, Parke R, Navarra L, Charlewood R, Johnson L, McQuilten Z. Cryopreserved platelets compared with liquid-stored platelets for the treatment of surgical bleeding: Protocol for two multicentre randomised controlled blinded noninferiority trials (the CLIP-II and CLIPNZ-II trials). *BMJ Open*, in press, accepted 09 November 2022.
89. Moore JPR, Anstey C, Mailey M, Fraser JF, Murray L, **Reade MC**, Shehabi Y, Singer M. Stress Response during Early Sedation with Dexmedetomidine Compared with Usual-Care in Ventilated Critically Ill Patients. *Critical Care*, 2022, 22;26(1):359.
90. Shehabi Y, Neto AS, Bellomo R, Howe B, Arabi YM, Bailey M, Bass FE, Bin Kadiman S, Colin J. McArthur CJ, **Reade MC**, Seppelt IM, Takala J, Wise MP, Webb SA. for the SPICE III study Investigators. Dexmedetomidine and Propofol Sedation in Critically Ill Patients and Dose Associated 90-day Mortality: A Secondary Cohort Analysis of a Randomized Controlled Trial (SPICE-III). *American Journal of Respiratory and Critical Care Medicine*, 2022 Oct 10, doi: 10.1164/rccm.202206-1208OC. Online ahead of print.
91. **Milford EM**, Meital L, **Reade MC**, Russell FD. Fingolimod does not prevent endothelial glycocalyx damage in injured cultured human umbilical vein endothelial cells. *Intensive Care Medicine Experimental*, 2022; 10: 34
92. Ceric A, Holgersson J, Nielsen N, May T, Skrifvars M, Hästbacka J, Saxena M, Aneman A, Delaney A, **Reade MC**, Delcourt C, Jakobsen J. Level of sedation in critically ill adult patients. A protocol for a systematic review with meta-analysis and Trial Sequential Analysis. *BMJ Open*, 2022;12:e061806.
93. Kovoov JG, Jacobsen JHW, Balogh ZJ and the Trauma Care Verification and Quality Improvement Writing Group (incl. **Reade MC**). Quality Improvement Strategies in Trauma Care: Review and Proposal of 31 Novel Quality Indicators. *Medical Journal of Australia*, 2022; 217 (7): 331-335.
94. Fitzgerald M, Ponsford J, Lannin N, O'Brien T, Cameron P, Cooper DJ, Rushworth N, Gabbe B and the AUS-TBI Investigators incl. **Reade MC**. AUS-TBI: The Australian informatics approach to predict outcomes and monitor intervention efficacy following moderate to severe traumatic brain injury. *J. Neurotrauma*, 2022; 3(1): 217-223.
95. Mitra B, Wood E, **Reade MC**. Whole blood for trauma resuscitation? *Injury*, 2022; 53: 1573-1575.
96. **Reade MC**. Whose side are you on? Complexities arising from the non-combatant status of military medical personnel. *Monash Bioethics Review*, in press, accepted 26 March 2022.
97. Wiebe J, **Lipman J**, **Reade MC**. A point-prevalence study of off-label medication use in an Australian adult tertiary intensive care unit. *Critical Care and Resuscitation*, 2022; 24(2): 183-187.
98. Tung J-P, Chiaretti S, Dean MM, Sultana AJ, **Reade MC**, Fung YL. Transfusion-related acute lung injury (TRALI): Potential pathways of development, strategies for prevention and treatment, and future research directions. *Blood Reviews*, 2022; 53: 100926.
99. Lee-Archer P, Gibbons K, **Reade M**, von Ungern-Sternberg B, Long D. A Comparison of Two Measures of Behaviour Change in Children After Day Surgery. *Pediatric Anaesthesia*, 2022, Jan;32(1):62-66.
100. Mahoney A, **Reade MC**, Young I, Butson B, Storey A, Bender K. The Australian Defence Force Medical Specialist Program: Past, Present and Future. *Journal of Military and Veterans Health*, 2022; 30(1): 90-97.
101. McGuinness S, Charlewood R, Gilder E, Hayes K, Morley S, Al-Ibousi A, Deans R, Howe B, Johnson L, Marks DC, **Reade MC**. A pilot randomised clinical trial of cryopreserved vs. liquid-stored platelet transfusion for bleeding in cardiac surgery: the CLIP-NZ pilot trial. *Vox Sanguinis*, 2022; 117(3): 337-345
102. Bray J, Acworth J, Page G, Parr M, Morley P, Cameron A, Carey C, Celenza A, Christiansen R, Considine J, Douglas N, et al. incl. **Reade M**. Aussie KIDS SAVE LIVES: A position statement from the Australian Resuscitation Council and supported by stakeholders. *Emergency Medicine Australasia*, 2021; 33(5): 944-946.
103. **Reade MC**. Response to Respiratory protection and refractive error – Response to "Staff perceptions of military chemical–biological–radiological–nuclear (CBRN) airpurifying masks during a simulated clinical task in the context of SARS-CoV-2". *Anaesthesia and Intensive Care*, 2022 Mar 14: doi: 10.1177/0310057X211039228. Online ahead of print.
104. Stewart AG, **Roberts JA**, Forde BM, Bergh H, Kidd TJ, Wright H, Harris PNA. Treatment failure due to adaptive resistance mechanisms in a severe and complicated bloodstream infection due to *Elizabethkingia meningoseptica*. *Microb Drug Resist* 2022; in press (Date accepted 13<sup>th</sup> December 2022; MDR-2022-0179.R3)
105. Scuderi CE, Parker SL, Jacks M, John GT, McWhinney B, Ungerer J, Mallett AJ, Healy HG, **Roberts JA**, Staatz CE. Serum creatinine and tacrolimus assessment with VAMS finger-prick microsampling: a diagnostic test study. *Kidney Med* 2022; in press (date accepted December 9<sup>th</sup> 2022; KIDNEYMED-D-22-00301R1).

106. McQuilten ZK, Venkatesh B, Jha V, **Roberts JA**, Morpeth SC, Totterdell J, ... Snelling TL, Davis JS, Denholm J, Tong SY. Anticoagulation Strategies in Non-Critically Ill Patients with Covid-19. *New Eng J Med Evidence* 2022; doi.org/10.1056/EVIDoa2200293
107. Mohd Sazly Lim S, Heffernan A, Naicker S, Wallis S, **Roberts JA**, Sime FB. Evaluation of Fosfomycin-Sulbactam Combination Therapy against Carbapenem-Resistant *Acinetobacter baumannii* Isolates in a Hollow-Fibre Infection Model. *Antibiotics (Basel)*. 2022 Nov 9;11(11):1578. doi: 10.3390/antibiotics11111578. PMID: 36358238; PMCID: PMC9686642.
108. Abbott IJ, van Gorp E, Cottingham H, Macesic N, Wallis SC, **Roberts JA**, Meletiadiis J, Peleg AY. Oral ciprofloxacin activity against ceftriaxone-resistant *Escherichia coli* in an in vitro bladder infection model. *J Antimicrob Chemother*. 2022 Dec 7:dkac402. doi: 10.1093/jac/dkac402. Epub ahead of print. PMID: 36473954.
109. Chai MG, **Roberts JA**, Farkas A, Cotta MO. Accuracy of a precision dosing software program for predicting antibiotic concentrations in critically ill patients. *J Antimicrob Chemother*. 2022 Dec 1:dkac392. doi: 10.1093/jac/dkac392. Epub ahead of print. PMID: 36454242.
110. Selby PR, Warner MS, Peake SL, Bardy P, Hiwase D, Singhal D, Beligaswatte A, Hahn U, **Roberts JA**, Yeung D, Shakib S. Optimizing antifungal prophylaxis in allogeneic stem cell transplantation: A cohort study of two different approaches. *Transpl Infect Dis*. 2022 Dec;24(6):e13988. doi: 10.1111/tid.13988. Epub 2022 Nov 15. PMID: 36349869.
111. Shekar K, Abdul-Aziz MH, Cheng V, Burrows F, Buscher H, Cho YJ, Corley A, Diehl A, Gilder E, Jakob SM, Kim HS, Levkovich BJ, Lim SY, McGuinness S, Parke R, Pellegrino V, Que YA, Reynolds C, Rudham S, Wallis SC, Welch SA, Zacharias D, Fraser JF, **Roberts JA**. Antimicrobial Exposures in Critically Ill Patients Receiving Extracorporeal Membrane Oxygenation. *Am J Respir Crit Care Med*. 2022 Oct 10. doi: 10.1164/rccm.202207-1393OC. Epub ahead of print. PMID: 36215036.
112. Herrero P, Wilson RC, Armiger R, **Roberts JA**, Holmes A, Georgiou P, Rawson TM. Closed-loop control of continuous piperacillin delivery: An *in silico* study. *Front Bioeng Biotechnol*. 2022 Oct 20;10:1015389. doi: 10.3389/fbioe.2022.1015389. PMID: 36338121; PMCID: PMC9631830.
113. Barreto EF, Chitre PN, Pine KH, Shepel KK, Rule AD, Alshaer MH, Abdul-Aziz MH, **Roberts JA**, Scheetz MH, Ausman SE, Moreland-Head LN, Rivera CG, Jannetto PJ, Mara KC, Boehmer KR. Why is implementation of beta-lactam therapeutic drug monitoring for the critically ill falling short? A multicenter mixed-methods study. *Ther Drug Monit* 2022; in press (date accepted 2<sup>nd</sup> October 2022; TDM22-147R1).
114. Legg A, Meagher N, Johnson SA, Roberts MA, Cass A, Scheetz MH, Davies J, **Roberts JA**, Davis JS, Tong SYC. Correction to: Risk Factors for Nephrotoxicity in Methicillin-Resistant *Staphylococcus aureus* Bacteraemia: A Post Hoc Analysis of the CAMERA2 Trial. *Clin Drug Investig*. 2022 Nov 19. doi: 10.1007/s40261-022-01224-9. Epub ahead of print. Erratum for: *Clin Drug Investig*. 2022 Oct 10;: PMID: 36401785.
115. Williams P, Cotta MOC, Abdul-Aziz MH, Wilks K, Farkas A, **Roberts JA**. *In silico* validation of an adult  $\beta$ -lactam critical care dosing guideline. *Pharmacotherapy* 2022; in press (date accepted 27<sup>th</sup> September 2022; ID 07-22-0343.R1).
116. Cucci MD, Gerlach AT, Mangira C, Murphy CV, **Roberts JA**, Udy AA, Dowling TC, Mullen CL. Performance of different body weights in the Cockcroft-Gault equation in critically ill patients with and without augmented renal clearance: A multicenter cohort. *Pharmacotherapy*. 2022 Nov 13. doi: 10.1002/phar.2743. Epub ahead of print. PMID: 36373197.
117. Truong AQ, Dao XC, Vu DH, Nguyen HA, Do THG, Tran NT, Tran NM, Vu NB, Pham HN, Bui VC, Trinh TA, Dang QT, Nguyen GB, Lipman J, Cotta MO, **Roberts JA**. Optimizing Meropenem in Highly Resistant *Klebsiella pneumoniae* Environments: Population Pharmacokinetics and Dosing Simulations in Critically Ill Patients. *Antimicrob Agents Chemother*. 2022 Nov 15;66(11):e0032122. doi: 10.1128/aac.00321-22. Epub 2022 Oct 5. PMID: 36197095; PMCID: PMC9664861.
118. Blaskovich MAT, Hansford KA, Butler MS, Ramu S, Kavanagh AM, Jarrad AM, Prasetyoputri A, Pitt ME, Huang JX, Lindahl F, Ziora ZM, Bradford T, Muldoon C, Rajaratnam P, Pelington R, Edwards DJ, Zhang B, Amado M, Elliott AG, Zuegg J, Coin L, Woischnig AK, Khanna N, Breidenstein E, Stincone A, Mason C, Khan N, Cho HK, Karau MJ, Greenwood-Quaintance KE, Patel R, Wootton M, James ML, Hutton ML, Lyras D, Ogunniyi AD, Mahdi LK, Trott DJ, Wu X, Niles S, Lewis K, Smith JR, Barber KE, Yim J, Rice SA, Rybak MJ, Ishmael CR, Hori KR, Bernthal NM, Francis KP, **Roberts JA**, Paterson DL, Cooper MA. A lipoglycopeptide antibiotic for Gram-positive biofilm-related infections. *Sci Transl Med*. 2022 Sep 14;14(662):eabj2381. doi: 10.1126/scitranslmed.abj2381. Epub 2022 Sep 14. PMID: 36103517.
119. Sharrock L, Ankravs MJ, Deane AM, Rechnitzer T, Wallis SC, Roberts JA, Bellomo R. Clearance of Piperacillin-Tazobactam and Vancomycin During Continuous Renal Replacement With Regional Citrate Anticoagulation. *Ther Drug Monit*. 2022 Aug 19. doi: 10.1097/FTD.0000000000001028. Epub ahead of print. PMID: 35994070.
120. Scuderi C, Parker S, Jacks M, John GT, McWhinney B, Ungerer J, Mallett A, Healy H, Roberts J, Staatz C. Finger-prick microsampling methods can replace venepuncture for simultaneous therapeutic drug monitoring of tacrolimus, mycophenolic acid, and prednisolone concentrations in adult kidney transplant patients. *Ther Drug Monit*. 2022 Sep 6. doi: 10.1097/FTD.0000000000001024. Epub ahead of print. PMID: 36097333.
121. Sumi CD, Heffernan AJ, Naicker S, Cottrell K, Wallis SC, Lipman J, Harris PNA, Sime FB, Roberts JA. Pharmacodynamic evaluation of intermittent versus extended and continuous infusions of piperacillin/tazobactam in a hollow-fibre infection model against *Escherichia coli* clinical isolates. *J Antimicrob Chemother*. 2022 Oct 28;77(11):3026-3034. doi: 10.1093/jac/dkac273. PMID: 36031790.
122. Islam K, Sime FB, Wallis SC, Bauer MJ, Naicker S, Won H, Zowawi HM, Choudhury MA, Shirin T, Habib ZH, Harris PNA, Flora MS, Roberts JA. Pharmacodynamics of Piperacillin-Tazobactam/Amikacin Combination versus Meropenem against Extended-Spectrum  $\beta$ -Lactamase-Producing *Escherichia coli* in a Hollow Fiber Infection Model. *Antimicrob Agents Chemother*. 2022 Sep 20;66(9):e0016222. doi: 10.1128/aac.00162-22. Epub 2022 Aug 4. PMID: 35924928; PMCID: PMC9487465.
123. Lyster H, Pitt T, Maunz O, Diamond S, Roberts JA, Brown D, Mills J, Armstrong-James D, Gerovasili V, Carby M, Dunning J, Simon A, Reed A. Variable sequestration of antifungals in an Extracorporeal Membrane Oxygenation Circuit. *ASAIO Journal* ( ):10.1097/MAT.0000000000001802, September 09, 2022. | DOI: 10.1097/MAT.000000000000180
124. Kumta N, Heffernan AJ, Cotta MO, Wallis SC, Livermore A, Starr T, Wong WT, Joynt GM, Lipman J, **Roberts JA**. Plasma and Cerebrospinal Fluid Population Pharmacokinetics of Meropenem in Neurocritical Care Patients: a Prospective Two-

- Center Study. *Antimicrob Agents Chemother.* 2022 Aug 16;66(8):e0014222. doi: 10.1128/aac.00142-22. Epub 2022 Jul 6. PMID: 35862757; PMCID: PMC9380572.
125. Islam K, Sime FB, Wallis SC, Bauer MJ, Forde BM, Harris P, Shirin T, Habib ZH, Flora MS, **Roberts JA**. Pharmacodynamic evaluation of piperacillin/tazobactam versus meropenem against extended-spectrum  $\beta$ -lactamase-producing and non-producing *Escherichia coli* clinical isolates in a hollow-fibre infection model. *J Antimicrob Chemother.* 2022 Aug 25;77(9):2448-2455. doi: 10.1093/jac/dkac186. PMID: 35724128; PMCID: PMC9410668.
126. Ryan RL, Jackson D, Hopkins G, Eley V, Christensen R, Van Zundert AAJ, Wallis SC, Lipman J, Parker SL, **Roberts JA**. Plasma and Interstitial Fluid Pharmacokinetics of Prophylactic Cefazolin in Elective Bariatric Surgery Patients. *Antimicrob Agents Chemother.* 2022 Jul 19;66(7):e0041922. doi: 10.1128/aac.00419-22. Epub 2022 Jun 28. PMID: 35762797; PMCID: PMC9295570.
127. Oliveira Silveira AL, da Silva Alves CG, Xie J, **Roberts JA**, Sanches C. Vancomycin population pharmacokinetic modeling in children using Bayesian estimation and a Non Parametric Approach. *Brazil J Pharmaceut Sci* 2022;58: e19313.
128. Islam K, Sime FB, Wallis SC, Bauer MJ, Forde BM, Harris P, Shirin T, Habib ZH, Flora MS, **Roberts JA**. Pharmacodynamic evaluation of piperacillin/tazobactam versus meropenem against extended-spectrum  $\beta$ -lactamase-producing and non-producing *Escherichia coli* clinical isolates in a hollow-fibre infection model. *J Antimicrob Chemother.* 2022 Aug 25;77(9):2448-2455. doi: 10.1093/jac/dkac186. PMID: 35724128; PMCID: PMC9410668.
129. Sime FB, Wallis S, Jamieson C, Hills T, Gilchrist M, Santillo M, Seaton RA, Drummond F, **Roberts J**; BSACzDrug Stability Testing Programme. Evaluation of the stability of temocillin in elastomeric infusion devices used for outpatient parenteral antimicrobial therapy in accordance with the requirements of the UK NHS Yellow Cover Document. *Eur J Hosp Pharm.* 2022 May 24;ejhpharm-2022-003286. doi: 10.1136/ehjpharm-2022-003286. Epub ahead of print. PMID: 35609967.
130. Guerra Valero YC, Dorofaeff T, Coulthard MG, Sparkes L, Lipman J, Wallis SC, **Roberts JA**, Parker SL. Optimal dosing of cefotaxime and desacetylcefotaxime for critically ill paediatric patients. Can we use microsampling? *J Antimicrob Chemother.* 2022 Jul 28;77(8):2227-2237. doi: 10.1093/jac/dkac168. PMID: 35678266; PMCID: PMC9333413.
131. Heffernan AJ, Sime FB, Kumta N, Wallis SC, McWhinney B, Ungerer J, Wong G, Joynt GM, Lipman J, **Roberts JA**. Multicenter Population Pharmacokinetic Study of Unbound Ceftriaxone in Critically Ill Patients. *Antimicrob Agents Chemother.* 2022 Jun 21;66(6):e0218921. doi: 10.1128/aac.02189-21. Epub 2022 May 16. PMID: 35575578; PMCID: PMC9211414.
132. Navarrete-Rouco ME, Luque S, Sorlí L, Benítez-Cano A, **Roberts JA**, Grau S. Therapeutic Drug Monitoring and Prolonged Infusions of Ceftolozane/Tazobactam for MDR/XDR *Pseudomonas aeruginosa* Infections: An Observational Study. *Eur J Drug Metab Pharmacokinet.* 2022 Jul;47(4):561-566. doi: 10.1007/s13318-022-00772-x. Epub 2022 Jun 3. PMID: 35657580.
133. Avent ML, McCarthy KL, Sime FB, Naicker S, Heffernan AJ, Wallis SC, Paterson DL, **Roberts JA**. Evaluating Mono- and Combination Therapy of Meropenem and Amikacin against *Pseudomonas aeruginosa* Bacteremia in the Hollow-Fiber Infection Model. *Microbiol Spectr.* 2022 Jun 29;10(3):e0052522. doi: 10.1128/spectrum.00525-22. Epub 2022 Apr 20. PMID: 35442072; PMCID: PMC9241727.
134. Wicha SG, Mair A, Chiriack U, Frey OR, Fuchs T, Gaasch M, Hagel S, Richter DC, **Roberts JA**, Röhr AC, Weigand MA, Brinkmann A. Population pharmacokinetics and toxicodynamics of continuously infused linezolid in critically ill patients. *Int J Antimicrob Agents.* 2022 May;59(5):106572. doi: 10.1016/j.ijantimicag.2022.106572. Epub 2022 Mar 18. PMID: 35307562.
135. Setiawan E, Abdul-Aziz MH, Cotta MO, Susaniwati S, Cahjono H, Sari IY, Wibowo T, Marpaung FR, **Roberts JA**. Population pharmacokinetics and dose optimization of intravenous levofloxacin in hospitalized adult patients. *Sci Rep.* 2022 May 27;12(1):8930. doi: 10.1038/s41598-022-12627-1. PMID: 35624222; PMCID: PMC9142570.
136. Karabasevic N, **Roberts JA**, Stronach L, Naicker S, Wallis SC, Sjövall F, Sime F. Use of the Hollow-Fiber Infection Model to Measure the Effect of Combination Therapy of Septic Shock Exposures of Meropenem and Ciprofloxacin against Intermediate and Resistant *Pseudomonas aeruginosa* Clinical Isolates. *Antimicrob Agents Chemother.* 2022 May 17;66(5):e0214021. doi: 10.1128/aac.02140-21. Epub 2022 Apr 7. PMID: 35389238; PMCID: PMC9112939.
137. Cheng V, Abdul-Aziz MH, Burrows F, Buscher H, Corley A, Diehl A, Levkovich BJ, Pellegrino V, Reynolds C, Rudham S, Wallis SC, Welch SA, **Roberts JA**, Shekar K, Fraser JF; ASAP ECMO Investigators. Population pharmacokinetics of ciprofloxacin in critically ill patients receiving extracorporeal membrane oxygenation (an ASAP ECMO study). *Anaesth Crit Care Pain Med.* 2022 Jun;41(3):101080. doi: 10.1016/j.accpm.2022.101080. Epub 2022 Apr 25. PMID: 35472580.
138. Abbott IJ, van Gorp E, Wyres KL, Wallis SC, **Roberts JA**, Meletiadis J, Peleg AY. Oral fosfomycin activity against *Klebsiella pneumoniae* in a dynamic bladder infection in vitro model. *J Antimicrob Chemother.* 2022 Apr 27;77(5):1324-1333. doi: 10.1093/jac/dkac045. PMID: 35211736; PMCID: PMC9047678.
139. Heffernan AJ, Sime FB, Lim SMS, Adiraju S, Wallis SC, Lipman J, Grant GD, **Roberts JA**. Pharmacodynamics of ceftriaxone for the treatment of methicillin-susceptible *Staphylococcus aureus*: is it a viable treatment option? *Int J Antimicrob Agents.* 2022 Mar;59(3):106537. doi: 10.1016/j.ijantimicag.2022.106537. Epub 2022 Jan 31. PMID: 35093539.
140. Setiawan E, Cotta MO, Abdul-Aziz MH, Sosilya H, Widjanarko D, Wardhani DK, **Roberts JA**. Indonesian healthcare providers' perceptions and attitude on antimicrobial resistance, prescription and stewardship programs. *Future Microbiol.* 2022 Mar;17:363-375. doi: 10.2217/fmb-2021-0193. Epub 2022 Feb 25. PMID: 35212232.
141. Raza A, Kamato D, Sime FB, **Roberts JA**, Popat A, Falconer JR, Kumeria T. Influence of PEGylated porous silicon nanoparticles on permeation and efflux of an orally administered antibiotic. *Materials Today Advances* 2022; doi.org/10.1016/j.mtadv.2022.100210
142. Tait JR, Bilal H, Rogers KE, Lang Y, Kim TH, Zhou J, Wallis SC, Bulitta JB, Kirkpatrick CMJ, Paterson DL, Lipman J, Bergen PJ, **Roberts JA**, Nation RL, Landersdorfer CB. Effect of Different Piperacillin-Tazobactam Dosage Regimens on Synergy of the Combination with Tobramycin against *Pseudomonas aeruginosa* for the Pharmacokinetics of Critically Ill Patients in a Dynamic Infection Model. *Antibiotics (Basel).* 2022 Jan 13;11(1):101. doi: 10.3390/antibiotics11010101. PMID: 35052977; PMCID: PMC8772788.
143. Walker MM, **Roberts JA**, Rogers B, Harris PNA, Sime FB. Current and emerging treatment options for multidrug resistant *Escherichia coli* urosepsis: A Review. *Antibiotics* 2022; in press (date accepted 13<sup>th</sup> December 2022; antibiotics-2099767).



144. Ling L, Mui OOOY, Laupland KB, Lefrant JY, **Roberts JA**, Gopalan PD, Lipman J, Joynt GM; CaBoOM investigators. Scoping review on diagnostic criteria and investigative approach in sepsis of unknown origin in critically ill patients. *J Intensive Care*. 2022 Sep 11;10(1):44. doi: 10.1186/s40560-022-00633-4. PMID: 36089642; PMCID: PMC9465866.
145. Hernández-Mitre MP, Tong SYC, Denholm JT, Dore GJ, Bowen AC, Lewin SR, Venkatesh B, Hills TE, McQuilten Z, Paterson DL, Morpeth SC, **Roberts JA**. Nafamostat Mesylate for Treatment of COVID-19 in Hospitalised Patients: A Structured, Narrative Review. *Clin Pharmacokinet*. 2022 Oct;61(10):1331-1343. doi: 10.1007/s40262-022-01170-x. Epub 2022 Aug 30. PMID: 36040613; PMCID: PMC9425784.
146. **Roberts JA**, Bellomo R, Cotta MO, Koch BCP, Lyster H, Ostermann M, Roger C, Shekar K, Watt K, Abdul-Aziz MH. Machines that help machines to help patients: optimising antimicrobial dosing in patients receiving extracorporeal membrane oxygenation and renal replacement therapy using dosing software. *Intensive Care Med*. 2022 Oct;48(10):1338-1351. doi: 10.1007/s00134-022-06847-2. Epub 2022 Aug 23. PMID: 35997793; PMCID: PMC9467945.
147. Giacobbe DR, **Roberts JA**, Abdul-Aziz MH, de Montmollin E, Timsit JF, Bassetti M. Treatment of ventilator-associated pneumonia due to carbapenem-resistant Gram-negative bacteria with novel agents: a contemporary, multidisciplinary ESGCIP perspective. *Expert Rev Anti Infect Ther*. 2022 Jul;20(7):963-979. doi: 10.1080/14787210.2022.2063838. Epub 2022 Apr 25. PMID: 35385681.
148. Jager NGL, Chai MG, van Hest RM, Lipman J, **Roberts JA**, Cotta MO. Precision dosing software to optimize antimicrobial dosing: a systematic search and follow-up survey of available programs. *Clin Microbiol Infect*. 2022 Sep;28(9):1211-1224. doi: 10.1016/j.cmi.2022.03.041. Epub 2022 Apr 14. PMID: 35429656.
149. Setiawan E, Abdul-Aziz MH, **Roberts JA**, Cotta MO. Hospital-Based Antimicrobial Stewardship Programs Used in Low- and Middle-Income Countries: A Scoping Review. *Microb Drug Resist*. 2022 May;28(5):566-584. doi: 10.1089/mdr.2021.0363. Epub 2022 Mar 24. PMID: 35333607.
150. Denholm JT, Venkatesh B, Davis J, Bowen AC, Hammond NE, Jha V, McPhee G, McQuilten Z, O'Sullivan MVN, Paterson D, Price D, Rees M, **Roberts J**, Jones M, Totterdell J, Snelling T, Trask N, Morpeth S, Tong SY; ASCOT ADAPT investigators. ASCOT ADAPT study of COVID-19 therapeutics in hospitalised patients: an international multicentre adaptive platform trial. *Trials*. 2022 Dec 14;23(1):1014. doi: 10.1186/s13063-022-06929-y. PMID: 36514143; PMCID: PMC9747535.
151. **Roberts JA**, Sime F, Lipman J, Hernández-Mitre MP, Baptista JP, Brüggemann RJ, Darvall J, De Waele JJ, Dimopoulos G, Lefrant JY, Mat Nor MB, Rello J, Seoane L, Slavin MA, Valkonen M, Venditti M, Wong WT, Zeitlinger M, Roger C. A protocol for an international, multicentre pharmacokinetic study for Screening Antifungal Exposure in Intensive Care Units: The SAFE-ICU Study. *Crit Care Resus* 2022; in press (date accepted 21<sup>st</sup> October 2022; 20220117).
152. Kong FYS, Unemo M, Lim SH, Latch N, Williamson DA, **Roberts JA**, Wallis SC, Parker SL, Landersdorfer CB, Yap T, Fairley CK, Chow EPF, Lewis DA, Hammoud MA, Hocking JS. Optimisation of treatments for oral *Neisseria gonorrhoeae* infection: Pharmacokinetics Study (STI-PK project) - study protocol for non-randomised clinical trial. *BMJ Open*. 2022 Nov 11;12(11):e064782. doi: 10.1136/bmjopen-2022-064782. PMID: 36368750; PMCID: PMC9660608.
153. Tong SYC, Mora J, Bowen AC, Cheng MP, Daneman N, Goodman AL, Heriot GS, Lee TC, Lewis RJ, Lye DC, Mahar RK, Marsh J, McGlothlin A, McQuilten Z, Morpeth SC, Paterson DL, Price DJ, **Roberts JA**, Robinson JO, van Hal SJ, Walls G, Webb SA, Whiteway L, Yahav D, Davis JS; Staphylococcus aureus Network Adaptive Platform (SNAP) Study Group. The Staphylococcus aureus Network Adaptive Platform Trial Protocol: New Tools for an Old Foe. *Clin Infect Dis*. 2022 Nov 30;75(11):2027-2034. doi: 10.1093/cid/ciac476. PMID: 35717634; PMCID: PMC9710697.
154. **Roberts JA**, Fred J Boyd 2021 Oration, *J Pharm Pract Res* 2022; in press (date accepted 11<sup>th</sup> December 2022; 10.1002/jppr.1851).
155. Abdul-Aziz MH, Shekar K, **Roberts JA**. Reply to Fillatre et al and Li et al, *Am J Resp Crit Care Med* 2022; (date accepted 9<sup>th</sup> December 2022).
156. Coombes ID, Legg A, Patterson T, Kelly T, Henderson A, **Roberts JA**. Oral antivirals for mild-moderate COVID-19: a panacea or a logistical and clinical conundrum? *Aust Prescr*. 2022 Apr;45(2):67-68. doi: 10.18773/austprescr.2022.021. Epub 2022 Mar 24. PMID: 35592373; PMCID: PMC9081943.
157. Whitmore TJ, Cheng V, Rawlins MD, Morgan D, Chang T, O'Halloran S, Dyer JR, Boan P, **Roberts JA**. Pharmacokinetics of valganciclovir and voriconazole during prolonged intermittent renal replacement therapy in a lung transplant recipient. *Transpl Infect Dis*. 2022 Apr;24(2):e13818. doi: 10.1111/tid.13818. Epub 2022 Mar 12. PMID: 35238448.
158. **Roberts JA**, Duncan A, Cairns KA. Pandora's box: Paxlovid, prescribing, pharmacists and pandemic. *J Pharm Pract Res*. 2022 Feb;52(1):1-4. doi: 10.1002/jppr.1799. Epub 2022 Feb 10. PMID: 35572779; PMCID: PMC9088535.
159. Parker SL, Irwin AD, Hosking F, August D, Schoenmaker B, Pandey S, Wallis SC, Lipman J, **Roberts JA**, Davies MW. Innovation in microsampling for therapeutic drug monitoring of gentamicin in neonates: a proof-of-concept study. *Int J Antimicrob Agents* 2022; in press. *Int J Antimicrob Agents* 2022 Feb;59(2):10651
160. Boisson M, Bougle A, Sole-Lleonart C, **Dhanani J**, Arvaniti K, Rello J, Rouby JJ, Mimos O, European Investigator
161. Network for Nebulized Antibiotics in Ventilator-Associated P, (2022) *Nebulized Antibiotics for Healthcare- and Ventilator-Associated Pneumonia*. *Semin Respir Crit Care Med* 43: 255-270
162. **Dhanani J**, **Reade MC** (2022) *Nebulized Therapeutics for COVID-19 Pneumonia in Critical Care*. In: Vincent J-L (ed)
163. *Annual Update in Intensive Care and Emergency Medicine 2022*. Springer International Publishing, Cham, pp. 81-97.
164. **Dhanani J**, Taniguchi LU, Ranzani OT (2022) *Optimising aerosolized therapies in critically ill patients*. *Intensive Care Med*. 2022 Jul 8.
165. Irving Kat, Benjamin J. Ahern, **Jayesh Dhanani**, Grant Whitten, Nicholas Cowling, Wendy Goodwin (2022) *Long duration anaesthesia in pigs with an infusion of alfaxalone and dexmedetomidine*. *Veterinary Medicine and Science* 2022, 1-4.
166. Felicity Gilbert, Gary Mitchell, Shane Townsend, **Jayesh Dhanani**, Nicole Sng (2022). *Role of the emergency department in implementing an extracorporeal membrane oxygenation cardiopulmonary resuscitation*. *Emergency Medicine Australasia*.
167. Keogh, Samantha, **Jayesh Dhanani**, **Annabel Levido**, **Chris Gracie**, Vladislav Ilushin, **Jennifer Palmer**, Suzanne Parker, Anna Doubrovsky, Flavia Hyugens, and **Fiona Coyer**. "Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. The enclosed trial." *Australian Critical Care* 35 (2022): S1-S2.
168. Laupland KB, Edwards F, **Dhanani J**. Determinants of research productivity during postgraduate medical education: a structured review. *BMC Med Educ*. 2021 Nov 9;21(1):567.

169. O'Donoghue S, Pincus J, Pang G, Roach R, Anstey C, Perlas A, Zundert A. Impact of fasting on the gastric volume of critically ill patients before extubation: a prospective observational study using gastric ultrasound. *BJA Open*, Vol 3 2022. <https://doi.org/10.1016/j.bjao.2022.100023>.
170. Sinclair HA, Edwards F, Harris P, Heney C, Laupland KB. Epidemiology of *Aeromonas* species bloodstream infection in Queensland, Australia: Association with regional and climate zones *Microorganisms* 2022;11(1):36
171. Banham A, Leemans SJJ, Wynn MT, Andrews R, Laupland KB, Shinnars L. xPM: Enhancing exogenous data visibility. *Artificial Intelligence in Medicine* 2022;133(102409):1-15.
172. Edwards F, Glen K, Harris PNA, Paterson DL, Laupland KB. Determinants and outcomes of bloodstream infections related to obesity *Eur J Clin Microbiol Infect Dis* 2022;41(11):1347-1353.
173. Laupland KB. Death as a metric for outcome: Dusk between day and night. *JAMMI* 2022;e20220609.
174. Laupland KB. Preventing healthcare-related infections among older adults: a focus on cross-transmission of antibiotic-resistant bacteria, *Exp Rev Antimicrob Ther* 2022;20(9):1171-1178.
175. Tabah A, Elhadi M, Ballard E, Cortegiani A, Cecconi M, Unoki T, Galarza L, Goulart Rosa R, arbir F, Azoulay E, Laupland KB, Ssi Yan Kai N, Ostermann M, Francois G, Fiest K, Spronk P, Benbenishty J, Pellegrini M, Rose L, the COVISIT contributors. Variation in communication and family visiting policies in intensive care within and between countries during the covid-19 pandemic: The COVISIT International Survey. *J Crit Care* 2022 May 4;71:154050
176. Laupland KB, Paterson DL, Edwards F, Stewart AG, Harris PNA. *Morganella morganii*: An emerging cause of bloodstream infections. *Microbiol Spectrum* 2022;10(3):e0056922
177. Laupland KB, Paterson DL, Stewart AG, Edwards F, Harris PNA. *Sphingomonas paucimobilis* bloodstream infection is a predominantly community-onset disease with significant lethality *Int. J. Infect. Dis* 2022; 119:172-177
178. Tabah A, Laupland KB. Update on *Staphylococcus aureus* bacteraemia. *Curr Opin Crit Care* 2022;28(5):495-504.
179. Ling L, Mui OY, Laupland KB, Lefrant JY, Roberts J, Gopalan PD, Lipman J, Joynt GM. Scoping review on diagnostic criteria and investigative approach in sepsis of unknown origin in critically ill patients. *J Intensive Care* 2022;10(1):44.
180. Isler B, Paterson DL, Harris PNA, Ling W, Edwards F, Rickard C, Kidd TJ, Gassiep I, Laupland KB. *Achromobacter* species: An emerging cause of community-onset bloodstream infections. *Microorganisms* 2022;10(7):1449
181. Plummer MP, Rait L, Finnis ME, French CJ, Bates S, Douglas J, Bhurani M, Broadley T, Trapani T, Deane AM, Udy AA, Burrell AJC; SPRINT-SARI Australia Investigators. Diabetes mellitus, glycaemic control, and severe COVID-19 in the Australian critical care setting: A nested cohort study. *Aust Crit Care*. 2022;23:S1036-7314.
182. Laupland KB, Harris PNA, Edwards F, Stewart AG, Paterson DL. Culture-based determinants and outcome of *Staphylococcus aureus* bloodstream infections *Diagn Microbiol Infect Dis* 2022;104(3):115772
183. Laupland KB, Townsend S, Schwartz I. The rose-coloured glasses are cracked. *JAMMI* 2022;7(3):159-162.
184. Laupland KB, Stewart AG, Edwards F, Harris P, Heney C, George N, Coulter S, Paterson DL. *Pasteurella* species bloodstream infections: Major burden in older persons with co-morbid medical illnesses *Eur J Clin Microbiol Infect Dis* 2022;41(4):609-614
185. Laupland KB, Stewart AG, Edwards F, Paterson DL, Coulter S, Heney C, George N, Harris P. *Shewanella* species bloodstream infections in Queensland, Australia, 2000-2019 *Emerg Infect Dis* 2022;28(4):701-706
186. Bellapart J, Nasrallah F, Winearls J, Lassig-Smith M, Stuart J, Boots R, Winter C, Flaws D, Bulmer A, Jones L, Laupland KB. Diagnostic sensitivity of plasma endothelin-1 for cerebral vasospasm after subarachnoid hemorrhage, a multicentre double-blind study. *J Intensive Care Med* 2022;37(6):769-775.
187. Cunich M, Barakat-Johnson M, Lai M, Aorra S, Church J, Coyer F, et al. A systematic review of the costs, health outcomes and cost-effectiveness of health interventions for the prevention and treatment of incontinence-associated dermatitis. *International Journal of Nursing Studies*. 2022. <https://doi.org/10.1016/j.ijnurstu.2022.104216>
188. Barakat-Johnson M, Lai M, Stephenson J, Buhr H, Campbell J, Coyer F, et al. Efficacy of a heel off-loading boot in reducing heel pressure injuries in intensive care patients: a single-blinded randomised controlled trial in Australia. *Intensive and Critical Care Nursing*. 2022;103205. <https://doi.org/10.1016/j.iccn.2022.103205>.
189. Barakat-Johnson M, Stephenson J, Basjarahil S, Campbell J, Cunich M, Coyer F, et al. Clinician knowledge of incontinence-associated dermatitis: A multisite survey of healthcare professionals in acute and sub-acute settings. *J Wound Ostomy Cont*. 2022;49(2):159-167. <https://doi.org/10.1097/WON.0000000000000846>
190. Barakat-Johnson M, Stephenson J, Dempsey K, Innes L, Jain S, Coyer F, et al. Fit testing and comfort evaluation of prophylactic dressing use for healthcare workers under N95/P2 respirators in one health service district in Australia. *Journal of Hospital Infection*. 2022. <https://doi.org/10.1016/j.jhin.2022.02.016>
191. Barakat-Johnson M, Kita B, Jones A, Burger M, Airey D, Coyer F, et al. Redesigning chronic wound care: The viability and acceptability of a Virtual Wound Care Command Centre in Australia. *Int Wound J*. 2022. <https://doi.org/10.1111/iwj.13782>
192. Chaboyer W, Coyer F, Harbeck E, Thalib L, Latimer S, Wan CS, et al. Oedema as a predictor of the incidence of new pressure injuries in adults in any care setting: a systematic review and meta-analysis. *International Journal of Nursing Studies*. 2022;128:104189. <https://doi.org/10.1016/j.ijnurstu.2022.104189>
193. Gefen A, Alves P, Ciprandi G, Coyer F, Milne CT, Ousey K, et al. Device-related pressure ulcers: SECURE prevention. Second edition. *J Wound Care*. 2022. 31(3) (Suppl 1):S1-S52. <https://doi.org/10.12968/jowc.2020.29.Sup2a.S1>
194. Coyer F, Cook JL, Doubrovsky A, Campbell J, Vann A, McNamara G, et al. Implementation and evaluation of multi-layered pressure injury prevention strategies in an Australian ICU setting. *Aust Crit Care*. 2022;35(2):143-152. <https://doi.org/10.1016/j.aucc.2021.03.005>
195. Barakat-Johnson M, Jones A, Burger M, Frotjold A, Leong T, Coyer F, et al. Reshaping wound care: Evaluation of a digital application to improve wound assessment and management amid the COVID-19 pandemic. *International Wound Journal*. 2022;1-17. <https://doi.org/10.1111/iwj.13755>
196. Barakat-Johnson M, Beeckman D, Campbell J, Dunk AM, Lai M, Coyer F, et al. The development and psychometric testing of a knowledge tool on incontinence-associated dermatitis for clinicians (Know-IAD tool). *J Wound Ostomy Cont*. 2022;49(1):70-77. <https://doi.org/10.1097/WON.0000000000000837>

197. **Coyer F**, Cook JL, Doubrovsky A, Vann A, McNamara G. Exploring medical device-related pressure injuries in a single intensive care setting: A longitudinal point prevalence study. *Intensive and Critical Care Nursing*. 2022;68(Feb):103155. <https://doi.org/10.1016/j.iccn.2021.103155>
198. Martin-Loeches I, Rose L, Afonso E, Benbenishty J, Blackwood B, **Coyer F**, et al. Epidemiology and outcome of pressure injuries in critically ill patients with chronic obstructive pulmonary disease: A propensity score adjusted analysis. *International J Nursing Studies*. 2022;129:104222. <https://doi.org/10.1016/j.ijnurstu.2022.104222>
199. Hines S, Ramsbotham J, **Coyer F**. Registered nurses experiences of reading and using research for work and education: a qualitative research study. *BMC Nursing*. 2022; 21:114. <https://doi.org/10.1186/s12912-022-00877-3>
200. Pearse I, Corley A, Larsen E, **Coyer F**, O'Brien C, Marsh N et al. Securing jugular central venous access devices with dressings fixed to a liquid adhesive in an intensive care unit population: a randomised controlled trial. *Trials*. 2022; 23:390. <https://doi.org/10.1186/s13063-022-06322-9>
201. Barakat-Johnson M, Kita B, Jones A, Burger M, Airey D, **Coyer F**, et al. The viability and acceptability of a Virtual Wound Care Command Centre in Australia. *International Wound Journal*. 2022; <http://doi.org/10.1111/iwj.13782>
202. Hines S, Ramsbotham J, **Coyer F**. Theory-based research literacy intervention for nurses: A pilot study. *Nursing Forum-An Independent Voice for Nursing*. Published online 19 July 2022. <https://doi.org/10.1111/nuf.12780>
203. **Coyer F**, Labeau S, Blot S. Preventing pressure injuries among patients in the intensive care unit: insights gained. *Intensive Care Medicine*. 2022; <https://doi.org/10.1007/s00134-022-06838-3>
204. Campbell J, Chaboyer W, Tobiano G, Harbeck E, Nowicki T, **Coyer F**, et al. The effect of sub-epidermal moisture on pressure injury prevention strategies and incidence of pressure injuries: A feasibility pilot randomised controlled trial. *Journal of Tissue Viability*. 2022. <https://doi.org/10.1016/j.jtv.2022.07.008>
205. Levido A, Clement P, Gregory B, Morrey H, Kirrane M, **Coyer F**, et al. Virtual engagement of families in the intensive care unit during COVID-19: A descriptive survey of family members of patients and healthcare workers. *Journal of Telemedicine and eHealth*. 2022. <http://doi.org/10.1089/tmj.2022.0071>
206. Hall S, August D, **Coyer F**, Marsh N. Neonatal skin injury scales: a scoping review with narrative synthesis protocol. *Wound Practice and Research*. 2022. 30(3):175-178. <https://doi.org/10.33235/wpr.30.3.175-178>
207. Keogh S, Dhanani J, Levido A, Gracie C, Ilushin V, **Coyer F**, et al. Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. *Australian Critical Care*. 2022;35(Supp 1):S1-2.
208. Brown J, Ingleman J, **Coyer F**. Exploration of factors influencing evidence uptake of delirium management in intensive care: A qualitative descriptive study. *Australian Critical Care*. 2022;35(Supp 1):S11.
209. Batterbury A, Douglas C, **Coyer F**. Five illness classes of patients reviewed by MET responders: A latent profile analysis. *Australian Critical Care*. 2022;35(Supp 1):S5

### Books (RBWH staff in bold)

**Coleman K.** & Neilsen G. 2022 *Wound Care: A practical guide for maintaining skin integrity* 2nd edn. Elsevier Chatswood

### Book Chapters (RBWH staff in bold)

**Andrews, N.** (2022). Participating in life roles through self-management. In H. van Griensven & J. Strong (Eds.), *Pain: a textbook for health professionals*. 3<sup>rd</sup> edition. Elsevier, ePUB.

**Gray, P**, van Zundert J and **van Zundert, A.** (2022) Cervical Interlaminar Epidural (CIE) Block. In D Jankovic and P Peng (Eds.), *Regional Nerve Blocks in Anesthesia and Pain Therapy*. 5<sup>th</sup> Edition. Springer.

**Coleman K.** & **Hocking K.** 2022 *How to improve the healing process: Hints and Tips* Wound Care: A practical guide for maintaining skin integrity. 2<sup>nd</sup> Edn. Elsevier. Chatswood

**Coleman K.** 2022 *Malignant wounds: A practical guide for maintaining skin integrity*. 2<sup>nd</sup> Edn. Elsevier. Chatswood

**Coleman K.** 2022 *Skin integrity issues: A practical guide for maintaining skin integrity*. 2<sup>nd</sup> Edn. Elsevier. Chatswood

**Coleman K.** 2022 Appendix 1 : *A practical guide for maintaining skin integrity*. 2<sup>nd</sup> Edn. Elsevier. Chatswood

**Flint A**, Winearls J, **Reade MC.** The most important questions in the current practice of transfusion of critically bleeding patients. *Annual Update in Intensive Care and Emergency Medicine 2023*. Berlin: Springer-Verlag, 2023; in press, accepted 30 SEP 22.

**Dhanani J** & **Reade MC.** Nebulized therapeutics for COVID-19 pneumonia in critical care. *Annual Update in Intensive Care and Emergency Medicine 2022*. Berlin: Springer-Verlag, 2022; 81-97.

## Keynote or Plenary Lectures given in 2022

Date	Title
February	Gillespie J. Imaging of headache. Qatar Neuroscience Conference
March	Gillespie J. Imaging of trigeminal neuralgia. ANZSNR ASM



	<p><b>Coyer F.</b> Invited. Provide valuable input into whether the micro-credentialing “exploring knowledge translation in clinical practice course is applicable to researchers working with clinicians in implementation projects. Micro-credentialing “Exploring knowledge translation in clinical practice workshop. Gold Coast, Australia</p>
<b>April</b>	<p>Year In Review: ANZICS Annual Scientific Meeting</p> <p>Genomics in Sepsis: ANZICS Annual Scientific Meeting</p> <p>Brown J, <b>Coyer F.</b> Exploration into the factors influencing evidence uptake of delirium management in intensive care. A qualitative descriptive study. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.</p> <p>Batterbury A, <b>Coyer F.</b> Five illness severity classes of patient reviewed by MET responders: A latent profile analysis. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.</p> <p>Keogh S, <b>Coyer F.</b> Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. The ENCLOSE Trial. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.</p>
<b>May</b>	<p>Gillespie J. Imaging of the paranasal sinuses. RACS ASM</p> <p>Gillespie J. Perineural tumour spread. RACS ASM</p> <p>Gillespie J. Regional cases from Australia. ASNR ASM</p> <p>Fenech M. Sonographic assessment of the nerves of the foot and ankle. ASA International conference</p> <p>Fenech M. Novel techniques for sonographic assessment of the intermetatarsal space for discrimination between Morton’s neuroma and intermetatarsal bursitis. ASA International conference</p> <p>Fenech M. Sonographic assessment of the brachial plexus, nerves of the neck and levels of the neck. ASA International conference</p> <p>Fenech M. Sonographic assessment of the shoulder. ASA International conference</p> <p>Fenech M. Sonographic assessment of the nerves of the elbow. ASA International conference</p> <p>Dobeli K. Chair - Professional Challenges session. ASMIRT national conference</p> <p>Acute Care Genomics: benefits and challenges of ultra-rapid genomic testing for critically ill children</p> <p>Adult ID and Genetics</p> <p>The Cardiovascular Genetics Flagship - progress to date</p> <p>Chair - session 3 Questions and discussion and illustrative cases</p>
<b>June</b>	<p>Williams J. Surviving sepsis. 21st International Conference on Emergency Medicine; Melbourne, Australia. June, 2022.</p> <p>Williams J. Intervention with concentrated albumin for resuscitation of undifferentiated sepsis - the ICARUS pilot trial. 21st International Conference on Emergency Medicine; Melbourne, Australia. June, 2022.</p> <p>Mitchell G. Lessons learned from implementing training and processes for an ECMO-CPR service. 21st International Conference on Emergency Medicine; Melbourne, Australia. June, 2022.</p> <p>Cullen L. Clinical cases where the ECG is key. 21st International Conference on Emergency Medicine; Melbourne, Australia. June, 2022.</p> <p>Neonatal Genetic Topics</p> <p>The Familial Breast Cancer Clinic: Improving the care of women at increased risk of hereditary breast cancer</p> <p><b>Coyer F.</b> Consultant. Pressure Injury Treatment Group Final Meeting. 15 June 2022. Sydney, Australia.</p>
<b>July</b>	<p>Gillespie J. Neck nodes and artificial intelligence. TROG ASM</p> <p>Gillespie J. Pulsatile tinnitus. Radiopaedia</p> <p>Fenech M. Advanced sonographic assessment of the foot and ankle. ASA MSK SIG conference</p> <p>Panel Member - Genetics update, decision-making and family considerations</p> <p>Recent advances and indications for spinal cord stimulators and the outcomes. <b>Paul Gray</b> – Invited speaker for the International Interventional Pain Update. Delivered virtually and sponsored by the Malaysian Society of Interventional Pain Practitioners.</p>

<b>August</b>	Genetic Aortopathies- extra-cardiac features Developments in Prenatal Genetic Testing for Cardiac Conditions  Decision Aids for Nephrologists
<b>September</b>	Cullen L. Chest pain and Troponin. High Risk Emergency Medicine Meeting; Sydney, Australia. September, 2022. Fenech M. Sonographic assessment of the nerves of the foot and ankle. ASA MSK SIG meeting VIDIGATE - do not forget the 'G' Advances in the genetics of familial bowel cancer predisposition Australian Genomics: The Next Steps
<b>October</b>	Gillespie J. Imaging of facial pain. RANZCR ASM Hearing loss after meningitis & updated statewide medical guidelines for investigation of hearing loss Gene Therapy Genetic Counselling for Inherited Eye Diseases Australian International congress (AIBC) Plenary session – Genetics: Debate and discussion that all patients with breast cancer should be panel tested for germline mutations  Improving interdisciplinary group-based pain management program uptake and attendance: a needs analysis. <b>Nicole Andrews</b> – invited speaker for RECOVER 2022 Conference, Brisbane, 6 <sup>th</sup> October 2022
<b>November</b>	Cullen L. Troponin Traps. Australasian College of Emergency Medicine, Annual Scientific Meeting Christchurch, New Zealand. November, 2022. Gillespie J. SCC or mimic? RSNA VIDIGATE - do not forget the 'G' Breast cancer clinical genetics Genetic and prostate cancer care Laboratory genetic counsellors in a stewardship program supported behaviour change amongst non-genetic clinicians <b>Reade MC.</b> The top 10 priorities to reduce trauma mortality. <i>Western Australia State Trauma Conference, Perth</i> <b>Reade MC.</b> The military approach to trauma transfusion. <i>Western Australia State Trauma Conference, Perth</i> <b>Reade MC.</b> How will the military reduce trauma mortality over the next 10 years? <i>Western Australia State Trauma Conference, Perth</i>
<b>December</b>	Gillespie J. Imaging of the post-treatment neck. ESHNR Masterclass Current Evidence and Techniques for Sacroiliac Joint Radiofrequency Neurotomy. <b>Paul Gray</b> – Invited speaker for the International Interventional Pain Update, Kuala Lumpur, Malaysia.  Overview of Neuromodulation in Pain Management. <b>Paul Gray</b> – Invited speaker for the International Interventional Pain Update, Kuala Lumpur, Malaysia.
<b>Additional</b>	Reade MC. Innovations in transfusion. Tri-Society Cardiac & Thoracic (3SCTS) Symposium, Cairns Reade MC. How do military trauma systems differ? New Zealand National Trauma Conference, Auckland Reade MC. What are the most important questions in trauma transfusion? Australasian Trauma Society Annual Scientific Meeting, Brisbane Reade MC. Post-randomisation exclusions in the CLIP-II trial of cryopreserved platelets. Should everyone be counted? Australian and New Zealand College of Anaesthetists Clinical Trial Network Strategic Research Workshop, Brisbane Reade MC. How I manage raised intracranial pressure. 10th Annual Best of Brussels conference, Indian Society of Critical Care Medicine, Pune Reade MC. Tranexamic acid for all trauma patients? 10th Annual Best of Brussels conference, Indian Society of Critical Care Medicine, Pune Reade MC. Is whole blood as good as people say? 10th Annual Best of Brussels conference, Indian Society of Critical Care Medicine, Pune Reade MC. Polytrauma management – the top 10 priorities. 10th Annual Best of Brussels conference, Indian Society of Critical Care Medicine, Pune Reade MC. Treating delirium due to withdrawal states. Australian and New Zealand Intensive Care Society Annual Scientific Meeting, Sydney Reade MC. Better options for the massively bleeding patient? Frozen (or cold stored) platelets or whole blood. Australian and New Zealand Intensive Care Society Annual Scientific Meeting, Sydney Reade MC. Association of time to craniectomy with survival in combat casualties.  An analysis of the US Joint Trauma System database 2005-2015, with comparison to more recent literature. Royal Australasian College of Surgeons Annual Scientific Congress, Brisbane

Reade MC. Fractionation in a war zone: Is freezing the answer? Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Perth (online)

Reade MC. Panel discussion: Do we need to target? The role of transfusion algorithms in haemorrhage. Australian and New Zealand College of Anaesthetists Annual Scientific Meeting, Perth (online)

Reade MC. Humanisation in ICU: Sedation roles and how to improve early recovery. 19th Indoanesthesia Conference, Jakarta