



Royal Brisbane and Women's Hospital

RBWH Research Report 2025

Critical Care and Clinical Support Services

Metro North
Health



Queensland
Government



Metro North Health acknowledges the Traditional Custodians of the Land upon which we live, work and walk, and pay our respects to Elders both past and present.

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Contents

Department of Intensive Care Services 4

Department of Medical Imaging 22

Department of Nuclear Medicine 27

Genetic Health Queensland..... 33

Pharmacy 42

Tess Cramond Pain and Research Centre..... 57

Department of Intensive Care Services

Successful Research Higher Degree (e.g. MPhil or PhD) candidates in 2025

Name	Degree (e.g. MPhil or PhD)	Title	Month Completed	Affiliated University	Summary
Mahesh Ramanan	PhD	Randomised trials in critical care medicine: characterising recruitment challenges and developing solutions	March 2025	UNSW	In this PhD thesis, I explore the rise of RCTs in critical care, focussing on answering the following questions: (1) How have the recruitment and methodological characteristics of critical care RCTs changed over time? (2) What are the factors which influence recruitment of patients into RCTs? (3) How does recruitment vary between sites within RCTs? (4) What impact do consent models and established clinical trials groups have on recruitment of patients into RCTs? (5) How did the COVID-19 pandemic impact on RCT conduct?

Research Awards and Achievements

Recipient	Award	Event
Neilson AJ	Best Oral Presentation	2025 Metro North Nursing and Midwifery Showcase

Research Grants

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
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, Reade MC, Pettila V.	Intensive Care	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	\$3.5 million	2019-2025

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Milford E, Reade MC, Howe B, Trevor D, Irving A, French C, Daly J, Litton E, Flint A, McQuilten Z, Wood E, Mason A, Watkinson P, Rickard C	Intensive Care	The Threshold for Platelets study: a prospective randomised trial to define the platelet count at which critically ill patients should receive a platelet transfusion prior to an invasive procedure	MRFF	\$1.7 million	2023-2027
Ullman A, Marsh N, Curley M, Coyer F, Davies M, Keogh S, Kearney L, McBride C, Kleidon P, August D, Takashima M.	Intensive Care	Preventing extravasation injuries in neonates and infants: A Type 1 hybrid RCT. (APP2022095)	MRFF Clinician Researcher – Nurses, Midwives and Allied Health	\$1,493,00.00	2023-2026
Shehabi Y, Reade MC, Campbell L, Howe B, Webb S, Bellomo R, McArthur C, Presneill J, Hodgson C, Bailey M, Murray L	Intensive Care	Early Sedation with Dexmedetomidine in Older Ventilated Critically Ill Patients: SPICE IV Trial.	NHMRC	\$5 million	2019-2025
McGuinness S, Charlewood R, Galvin S, Hayes K, Morley S, Moore J, Walker C, Reade MC.	Intensive Care	Cryopreserved vs. Liquid Platelets for Surgical Bleeding NZ (CLIP-NZ)	HRC (NZ)	NZ\$1.4 million	2020-2025

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
McQuilten Z, Winearls J, Cooper J, Reade MC, Wood E, Higgins A, Mittra B, Daly J, Wullschleger M, Balogh Z, French C, Heller G, Presneill J.	Intensive Care	Fibrinogen Early In Severe Trauma study (FEISTY II).	MRFF	\$3.1 million	2021-2025
Bellapart J	Intensive Care	Nimodipine pharmacokinetics in subarachnoid hemorrhage patients: Defining the optimal dosing	RBWH Project Grant	\$49,782.36	2 years 2025-2026
Lankadeva Y, Cook L, Roquilly A, Glassford N, Booth L, Wen SW, Wood A, Ow C, Emery S, Bellomo R, Shehabi Y, Reade MC, May C, Wong C, See E, Bauquier J, Betrie AH, Saxena M, Secombe P	Intensive Care	MEGA-dose aSCORbatE for Sepsis (MEGASCORES): An interdisciplinary research program to transform management of sepsis in intensive care units	MRFF	\$4.9 million	2023-2027
Jayesh Dhanani	Intensive Care	Can Nebulized Ketamine Reach Therapeutic plasma concentrations for analgesia in ICU trauma and post-operative patients? The NIKI-PT: a Phase 2, Single-Centre, Pharmacokinetic Feasibility Study	RBWH Foundation	\$49,998	2 years (2026-2027)

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Ullman A, Marsh N, Curley M, Coyer F, Davies M, Keogh S, Kearney L, McBride C, Kleidon P, August D, Takashima M.	Intensive Care	Preventing extravasation injuries in neonates and infants: A Type 1 hybrid RCT. (APP2022095)	MRFF Clinician Researcher – Nurses, Midwives and Allied Health	\$1,493,000	2023-2026
Andrew John Neilson	Department of Intensive Care Services	Determining the criteria for safe and effective early mobilisation for patients with neurological pathologies in intensive care	2025 Metro North Health Pre-RHD Scholarships	\$15,000	
Eley V., Lehner C., Martin E., Lee N., Donovan T., Dhanani J., Roberts J.	Intensive Care	Nebulised fentanyl for labour pain – a pharmacokinetic and feasibility study	ANZCA Research Grant	\$63,483	
John S, Nguyen B, Chalakkal R, Ali Abdelhamid Y, Bui B, Deane A, Grayden D, McDonald S, Morokoff A, Reade M	Intensive Care	Minimally invasive measurement of the pressure dynamics in the brain post-traumatic brain injury	US Department of Defense / congressionally Directed Medical Research Programs	\$840,000	
Gabbe B, Battistuzzo C, Udy A, Hellewell S, Powell D, Reade M, Ryder C, Burns B, Curtis K, et al	Intensive Care	Connect-TBI: A National Informatics and Data-Driven Approach to Improve Care for Moderate to Severe TBI.	MRFF	\$4.9 million	5 years 2025-2030
Midwinter M, Ravuri H, Milford E, Reade M, Lisec C	Intensive Care	Road trauma patients: promoting recovery, repair and rehabilitation.	Motor Accident Insurance Commission (MAIC)	\$893,250	2025-2028

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Roberts JA, Slavin M, Paterson DL, Comans T, Lipman J, Landersdorfer C, Joynt G, Bellomo R, Clark J, Parker S	Intensive Care	Centre of Research Excellence - REduce the burden of antimicrobial reSistance through oPtimal, persONalised Dosing (RESPOND)	National Health and Medical Research Council of Australia Centre for Research Excellence Grant (NHMRC APP2007007)	\$2,500,000	5 years, 2021-2025
Jayesh Dhanani	Intensive Care	Optimising nebulised analgesia therapy for Queenslanders	Queensland Health Clinician Researcher Fellowship	\$200,000	2023-2027
Dhanani J, Vadlamudi L, Roberts J, Jeffree L, Wallis S, Tremayne F	Intensive Care	Are the CSF levels of levetiracetam adequate to prevent and treat seizures?- A prospective observational comparative plasma and cerebrospinal fluid pharmacokinetics-pharmacodynamics study of levetiracetam in aneurysmal subarachnoid haemorrhage and traumatic brain injury	Royal Brisbane and Women's Hospital SERTA grant	\$71,689	
Dhanani J, Reade M, Lisec C, Gray P, Roberts J, Claus A.	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	\$59,252	
Coyer F, Fulbrook P, Ullman A, Keogh S, Duff J, Long D, Barakat-Johnson M, August D, Jones L, Carter H.	Intensive Care	Eliminating harm from devices across the life span in critical illness: the DEFENCE study.	APP2022546 – NHMRC Partnership Project round	\$1,499,796	2023-2026
Marsh N, Larsen E, Duff J, Keogh S, August D, Kearney L, Dulhunty J, Gavin N, O'Brien C	Nursing & Midwifery Research Centre / Women's & Newborn Services / RBWH Research Services	A point prevalence study of invasive medical devices, usage and harm	RBWH SERTA Research Project Grant	\$14,782	1yr 2025-2026

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Corley A, Marsh N, Keogh S, Dhanani J, Levido A, Laupland K, Aubert J, Trevor D	Nursing & Midwifery Research Centre / Intensive Care Services / Consumer Representative	Identifying harm from dialysis catheters in intensive care and setting future research priorities: a pathway to practice improvement	RBWH Foundation	\$48,719	1yr 2025-2026
Keogh S, Levido A, Corley A, Edwards F, Laupland K, Trevor D	Nursing & Midwifery Research Centre / Intensive Care Services / Consumer Representative	Quantifying avoidable harm from arterial catheters in intensive care: a pathway to practice improvement	Metro North Health Swift Grant	\$24,951	1yr 2025-2026
Marsh N, Corley A, Keogh S, Ware R	Nursing & Midwifery Research Centre / Griffith University	A pilot randomized controlled trial to improve first-time insertion success with reliable sharp (short bevel) catheters (FIRST Trial)	Terumo Grant (investigator initiated)	\$99,807	2yrs 2025-2027
Keogh S, Levido A, Ramanan M, Laupland K, Blank S, Edwards F, Corley A	Nursing & Midwifery Research Centre / Queensland University of Technology	Evaluating dressing and securement for arterial catheters in intensive care: prospective target trial emulation	RBWH SERTA Research Project Grant	\$24,788	2yrs 2025-2027
Long D, Tyack Z, Gibbons K, Clayton A, Keogh S, et al	Queensland University of Technology / Perth Children's Hospital / Royal Children's Hospital and Health Service / University of Queensland / et al	Early targeted intervention for PTSD in young survivors of paediatric intensive care: A hybrid effectiveness implementation randomised controlled trial.	Medical Research Future Fund	\$1,951,862	5yrs 2025-2029
Cohen J, Delany A, Anderson C, Li Q, Andreson C	Intensive Care	A Prospective, Blinded, Randomised Clinical Trial of Fludrocortisone Compared With Placebo in Critically Ill Patients Presenting With Aneurysmal Subarachnoid Haemorrhage	Medical Research Future Fund	\$1,999,835	5 years 2024-2029
Mahesh Ramanan AI	Intensive Care Medicine, Caboolture Hospital / TPCH / RBWH	Sedation, Temperature and Pressure after Cardiac Arrest and Resuscitation – the STEPCARE trial	MRFF (International Clinical Trials Collaboration Grant)	\$1,689,528	5 4 active
Mahesh Ramanan AI	Intensive Care Medicine, Caboolture Hospital / RBWH	Individualised blood pressure targets versus standard care among critically ill patients with shock – a multicentre randomised controlled trial (REACT-SHOCK)	MRFF (Clinical Trials Activity)	\$2,823,846	7 4 active

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Mahesh Ramanan CI-H	Intensive Care Medicine, Caboolture Hospital / RBWH	Consumer and clinician partnership to develop post sepsis follow-up models of care across the lifespan	NHMRC (Partnership Projects)	\$1,478,026	5 2 active
Mahesh Ramanan CI-J	Intensive Care Medicine, Caboolture Hospital / TPCH / RBWH	High-flow nasal oxygen therapy after cardiac surgery (NOTACS)	MRFF (International Clinical Trials Collaboration Grant)	\$1,460,862	5 5 active
Mahesh Ramanan AI	Intensive Care Medicine, Caboolture Hospital / RBWH	Fludrocortisone in ICU patients with aneurysmal subarachnoid haemorrhage (FLASH Trial)	MRFF (Clinical Trials Activity Stream 4)	\$1,999,835	7 2 active
Mahesh Ramanan CI-B	Intensive Care Medicine, Caboolture Hospital / RBWH	A randomised controlled trial of plasmalyte versus normal saline as resuscitation and maintenance fluid therapy for patients presenting with diabetic ketoacidosis (BEST-DKA)	Emergency Medicine Foundation	\$164,384	5 3 active

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Judith Bellapart	Jason Roberts, Melissa Lassig-Smith, Janine Stuart, Amelia Livermore	Nimodipine dosing and physiological variation in neurocritical care patients: a prospective pharmacokinetic study		N = 60 40 (RBWH)
Jayesh Dhanani	Vadlamudi L, Roberts J, Jeffree L, Os Cotta M, Wallis S, Tremayne F	Are the CSF levels of levetiracetam adequate to prevent and treat seizures? A prospective observational comparative plasma and cerebrospinal fluid pharmacokinetics-pharmacodynamics study of levetiracetam in aneurysmal subarachnoid haemorrhage and traumatic brain injury		N=40 30 Total aSAH = 20 TBI = 10
Amanda Corley	Bloomer M, Samantha Keogh, Kevin Laupland, Jaesh Dhanani, Rebecca Rashleigh-Rolls, Nicole Marsh	Haemodialysis catheters in the ICU: a prospective point prevalence study of catheter care and complications		
Samantha Keogh	Annabel Levido, Kevin Laupland , Felicity Edwards	Appropriate use criteria for peripheral arterial catheters in acute and critical care (The PACE Study)	Consumer-Led	N/A
Jayesh Dhanani	Pincus J, Roberts J, Reade M, Lassig-Smith M, Lindsay D , Abdul-Aziz H	A study of plasma pharmacokinetics of nebulized ketamine in post-operative and trauma patients in intensive care unit (NIKI-PT Study)		N = 20 1
Anthony Holly	Droder, B., Cohen, J, Reade, MC, Lipman, J , Vallmur, K	Australasian Burns Critical Care Observational Study		Registry N = 250 20

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Nicole Marsh	Emily Larsen, Jed Duff, Samantha Keogh, Deanne August, Lauren Kearney, Joel Dulhunty, Nicole Gavin, Catherine O'Brien	A point prevalence study of invasive medical devices, usage and harm		601
Amanda Corley	Nicole Marsh, Samantha Keogh, Jayesh Dhanani, Annabel Levido, Kevin Laupland, James Aubert, Dale Trevor	Identifying harm from dialysis catheters in intensive care and setting future research priorities: a pathway to practice improvement	Consumer-Led	
Samantha Keogh	Annabel Levido, Amanda Corley, Felicity Edwards, Kevin Laupland, Dale Trevor	Quantifying avoidable harm from arterial catheters in intensive care: a pathway to practice improvement	Consumer-Led	
Nicole Marsh,	Amanda Corley, Samantha Keogh, Robert Ware	A pilot randomized controlled trial to improve first-time insertion success with reliable sharp (short bevel) catheters (FIRST Trial)		58
Samantha Keogh	Annabel Levido, Mahesh Ramanan, Kevin Laupland, Sebastiaan Blank, Felicity Edwards, Amanda Corley	Evaluating dressing and securement for arterial catheters in intensive care: prospective target trial emulation		
Amanda Corley	Fiona Coyer, Samantha Keogh, Melissa Bloomer	Haemodialysis catheters in the intensive care unit: reducing patient harm through optimising bedside maintenance practices		
Grace Xu	Jed Duff, Samantha Keogh, Kevin Chu, Nathan Brown	Co-designed strategies to enhance patient participation in their peripheral intravenous catheter care in Emergency Department: an implementation trial (CARE-ED)	Consumer-Led	
Grace Xu	Jed Duff, Samantha Keogh	Patient PARTICipation in periphERal intravenous catheter (PIVC) care in the emergency department (PARTNER)		
Grace Xu	Jed Duff, Samantha Keogh, Kevin Chu, Nathan Brown, Vicki Binnie	Co-design of an implementation toolkit to enhance patient participation in their peripheral intravenous catheter care in the Emergency Department		
Samantha Keogh	Mahesh Pamanan, Kevin Laupland, Felicity Edwards, Annabel Levido, Dale Trevor	Partnering with consumers and clinicians to establish research priorities for intensive care.		
Amanda Corley	Bloomer M, Fiona Coyer, Samantha Keogh, Jaesh Dhanani, Rebecca Rashleigh-Rolls, Marshall A, Nicole Marsh	Haemodialysis catheters in the intensive care: a national survey of critical care nurses' bedside maintenance practices.	Consultation	

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Elissa Milford	Peter Watkinson, Christine Brown, Michael Reade , Zoe McQuilten	The threshold for platelets study (T4P): a prospective randomised trial to define the platelet count below which critically ill patients should receive platelet transfusion prior to an invasive procedure		N = 500 (AUST) 2 (RBWH)
Fatima Nasrallah	Judith Bellapart, David Reutens , Shekhar Chandra, James Walsham, Trevor Russell, Sandeep Bhuta, Jason Ross, Craig Winter , Siva Senthuran	Prediction and diagnosis using imaging and clinical biomarkers trial in traumatic brain injury – PREDICT – TBI		N = 300 97 (RBWH)
McQuilten Z	McQuilten Z, Winearls J, Cooper J, Reade MC , Wood E, Higgins A, Mitra B, Daly J, Wulschleger M, Balogh Z, French C, Heller G, Presneill J.	Fibrinogen Early In Severe Trauma study (<i>FEISTY II</i>).		N = 900 44 (RBWH)
Craig French	Michael Reade	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)		N = 2500 24 (RBWH)
Judith Munday	Jed Duff , Fiona Wood, David Sturgess, Samantha Keogh , Nicholas Ralph, Nicole White, Hannah Carter, Ian Graham, Margherita Murgo, Nicholas Fernandes, Kerstin Wyssusek, Bipphy Kath, Ruth Melville, Allison Kearney, Mary-Anne Ramis, Kate Kynoch, Christine Woods	The PeriWarm Trial: Transforming perioperative temperature management for better patient outcomes		
Debbie Long	Zephania Tyack, Kristen Gibbons, Amanda Clayton,, Samantha Keogh , et al	Early targeted intervention for PTSD in young survivors of paediatric intensive care: A hybrid effectiveness implementation randomised controlled trial.		
Andrej Trampuz	Bellapart, J., Holley, A. , Brown, J, Lipman, J., Stuart, J, Lassig-Smith, M, Livermore, A , Ungerere, J, Pretorius, C, Burke, M, Trevor, D	A suite of laboratory analysis of D-Lactate as an early marker of infection	Partnership	
Karen Davies	Nicola Harper, Samantha Keogh, Peter Donovan, Jed Duff, Natasha Roberts, Melanie Duncan , Dale Trevor	Digital evaluation and implementation of the medication administration evaluation and feedback tool (MAEFT) at STARTS		

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Amanda Ullman	Nicole Marsh , Martha Curley, Fiona Coyer , Mark Davies , Samantha Keogh , Lauren Kearney , Craig McBride , Tricia Kleidon, Deanne August , Mari Takashima, Grace Xu , Roni Cole , Robert Ware, Joshua Byrnes	Building capacity to prevent healthcare harm for hospitalised infants: A type 1 hybrid randomized controlled trial: Preventing infusate injuries throughout a child's hospitalisation (PATCH): A Type 1 Hybrid Randomised Controlled Trial		98
Penny Vera Heidke	Jed Duff , Judy Munday, Samantha Keogh	Implementing perioperative hypothermia guidelines for orthopaedic patients		
Fiona Coyer	Paul Fullbrook, Samantha Keogh , Jed Duff , D Long, Amanda Ullman, Michelle Barakat-Johnson, Deanne August , L Jones, Hannah Carter	Eliminating harm from devices across the life span in critical illness: The DEFENCE Study	Consumer-Led	
Rik Thompson	Andrew Redfern, Simone Birch, Ian Bennett, Kate Roberts, Kaylene Simpson, Leonie Young, Samantha Keogh	Targeting therapy resistance through epithelial mesenchymal plasticity in patient-derived organoids from pre-neoadjuvant chemotherapy biopsies		
Jeremy Cohen Anthony Delaney Craig Anderson Qiang Li Christopher Anderson		A Prospective, Blinded, Randomised Clinical Trial of Fludrocortisone Compared With Placebo in Critically Ill Patients Presenting With Aneurysmal Subarachnoid Haemorrhage	Partnership	N = 524 3 (RBWH)

Research Publications

Authors

Investigator	ORCID ID
Professor Michael Reade	https://orcid.org/0000-0003-1570-0707
Dr Elissa Milford	https://orcid.org/0000-0003-1893-3223
Professor Kevin B Laupland	https://orcid.org/0000-0002-1205-5354
Professor Jason Roberts	https://orcid.org/0000-0001-6218-435x
Associate Professor Jayesh Dhanani	https://orcid.org/0000-0001-9803-9701
Associate Professor Mahesh Ramanan	https://orcid.org/0000-0003-4509-4015
Dr Judith Bellapart	https://orcid.org/0000-0001-7135-6723
Associate Professor Jeremy Cohen	https://orcid.org/0000-0002-1356-8506
Associate Professor Anthony Holley	https://orcid.org/0000-0001-8042-6084
Dr Samantha Keogh	https://orcid.org/0000-0002-2797-4388
Annabel Levido	https://orcid.org/0009-0003-9613-9655

Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

Cohen, J., Delaney, A., Udy, A., Andersen, C., Anderson, C., Bellapart, J., Burrell, L., Devaux, A., Evans, D., Fitzgerald, E., Garside, T., Hammond, N., Hardie, M., Jeffree, R., Knowles, S., Lassig-Smith, M., Li, Q., Nethathe, G., Rajbhandari, D., Venkatesh, B. (2025). Fludrocortisone to treat patients with aneurysmal subarachnoid haemorrhage: Protocol for an international, phase 3, randomised, placebo-controlled, multicentre trial. *Critical Care and Resuscitation*. 27. 100116. doi:10.1016/j.ccrj.2025.100116.

Curpen, P., To, X., Lu, M., C., Bellapart, J., Newcombe, V., & Nasrallah, F. (2025). Trajectories of Glasgow Outcome Scale-Extended after traumatic brain injury: an analysis of the TRACK-TBI cohort. *Journal of Neurology, Neurosurgery & Psychiatry*. jnnp-2025. 10.1136/jnnp-2025-336835.

Mackintosh, D., Whebell, S., Saxena, P., Senthuran, S. (2026). Persistent air leak in the critically ill. *British Journal of Anaesthesia* 26(3): 101 – 110. doi: 10.1016/j.bjae.2025.12.001

Dulhunty JM, Roberts JA, Lipman J; BLING III Study Investigators. Continuous vs Intermittent β -Lactam Antibiotic Infusions for Sepsis-Reply. *JAMA*. 2025 Jan 14;333(2):174-175. doi: 10.1001/jama.2024.23275.

White KC, Quick L, Durkin Z, McCullough J, Laupland KB, Blank S, Attokaran AG, Kumar A, Shekar K, Garrett P, Meyer J, Tabah A, Ramanan M, Luke S, Chaba A, Bellomo R, Lamontagne F, Young PJ et al. Mean arterial pressure in critically ill adults receiving vasopressors: a multicentre, observational study. *Critical Care and Resuscitation*. 2025;27(1):100103.

Rouby J-J, Xia J, Dhanani J, Bassi GL, Monsel A, Torres A. Nebulized aminoglycosides for ventilator-associated pneumonia: Methodological considerations and lessons from experimental studies. *Journal of Intensive Medicine*. 2025;5(01):12-22.

Roberts JA, Heffernan AJ, Chai MG, Harris PNA, Legg A, Farkas A, Laupland K, Dhanani J, Fourie C, Murray L, Abdul-Aziz MH, Ungerer J, McWhinney B, Lipman J, Cotta MO. Resistance Optimised Antibiotic Dosing (The ROAD Study): Is dosing of meropenem and piperacillin-tazobactam optimised to prevent the emergence of antibiotic resistance safe and feasible in the ICU? A pilot study. *CMI Communications*. 2025 2(1). doi.org/10.1016/j.cmicom.2024.105051.

Roberts JA, Uldemolins M, Liu X, Baptista JP, Bilgrami I, Boidin C, Brinkmann A, Castro P, Choi G, Cole L, De Waele JJ, Deans R, Donnellan S, Eastwood GM, Frey OR, Goutelle S, Gresham R, Jamal JA, Joynt GM, Kanji S, Kluge S, König C, Koulouras VP, Lassig-Smith M, Laterre PF, Lee A, Lefrant JY, Lei K, Leung P, Llauro-Serra M, Martin-Loeches I, Nor MBM, Mudaliar Y, Ostermann M, Paul SK, Peake SL, Rello J, Roberts DM, Roberts MS, Richards B, Rodríguez A, Roehr AC, Roger C, Seoane L, Sinnollareddy M, Sousa E, Soy D, Spring A, Starr T, Stephens D, Taccone FS, Thomas J, Turnidge J, Valkonen M, Varghese JM, Wallis SC, Walker RJ, Williams T, Wilson LC, Wittebole X, Wright DFB, Zikou XT, Bellomo R, Lipman J; SMARRT Study Collaborators. Meropenem and piperacillin/tazobactam optimised dosing regimens for critically ill patients receiving renal replacement therapy. *Intensive Care Med*. 2025 Sep;51(9):1628-1640. doi: 10.1007/s00134-025-08067-w.

Sulaiman H, Rozali MA, Adiraju SKS, Hasan MS, Jamal JA, Liu X, Mat-Nor MB, Mazlan MZ, Othman-Jailani MI, Salmuna ZN, Wallis SC, Roberts JA, Abdul-Aziz MH. Meropenem dosing optimization on day 1 and steady state in critically ill patients without significant renal impairment. *Sci Rep*. 2025 Oct 29;15(1):37781. doi: 10.1038/s41598-025-20630-5.

Udy, A., Jeffcote, T., Battistuzzo, C., Sharry, A., Adamides, A., Ainscough, K., Alliegro, P., Anstey, J., Bailey, M., Barea-Mendoza, J., Bellapart, J., Bouzat, P., Byrne, K., Delaney, A., Drummond, K., Haenggi, M., Hays, L., Higgins, A., Huet, O., Cooper, D. (2025). Brain tissue oxygen monitoring for severe traumatic brain injury: the international multicentre randomised controlled BONANZA-GT study protocol. *BMJ Open*. 15. 10.1136/bmjopen-2025-106962.

Nethathe GD, Cohen J, Lipman J, Anderson R, Hay KE, Pretorius CJ, Feldman C. In vitro dexamethasone suppression of cytokine production assay and plasma total and free cortisol responses to ACTH in healthy volunteers. *Sci Rep*. 2025;15(1):43127. doi:10.1038/s41598-025-26260-1.

Venkatesh B, Rey DA, Evans DM, Yao L, Finfer S, Bellomo R, Silva TC, **Cohen J**, Qiu Y, Lucena WdR, Hammond N, Myburgh J, Li Q, Damiani LP, Devaux A, Deliberato RO. A gene expression-based approach for the precision use of hydrocortisone in septic shock patients: a secondary analysis of the ADRENAL trial. *Crit Care Resusc*. 2025;27(2):100109. doi:10.1016/j.ccrj.2025.100109.

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Cohen, J. Adrenocortical insufficiency in critical illness (book chapter). Oh's Intensive Care Manual (pp.847-854) Amsterdam, The Netherlands: Elsevier. doi: 10.1016/b978-0-443-11611-7.00071-2

Cohen, J. Clinical assessment of the critically ill patient. Oh's Intensive Care Manual (pp.69-74) Amsterdam, The Netherlands: Elsevier. doi: 10.1016/B978-0-443-11611-7.00009-8

Cohen, J. Genetics in sepsis. Oh's Intensive Care Manual (pp.137-143) Amsterdam, The Netherlands: Elsevier. doi: 10.1016/b978-0-443-11611-7.00017-7

Milford EM, Gibbs C, Reade MC. Sedation and analgesia in the ICU. In: Firth J, Conlon C, Cox C, eds. Oxford Textbook of Medicine, Oxford, Oxford University Press, online update 2025.
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Johnson L, Marks D, Reade MC. Cryopreserved and dried platelets. In: Damage Control Resuscitation: Identification and Treatment of Life-Threatening Hemorrhage. Spinella P. and Leeper C. (eds), Springer, in press, accepted 2025.

Ramanan M and Ekinici E. (Ch 68) Diabetic Emergencies and Glucose Control in the ICU. Oh's Intensive Care Manual. 2026.

Keynote or Plenary Lectures given in 2025

Date	Title
6-7 March 2025	Reade MC. The CLIP-II randomised trial of cryopreserved platelets. Critical Care Reviews Down Under, Melbourne, 2025.
18 – 21 March 2025	Reade MC, Maegele M. Chest trauma. 44th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2025.
18 – 21 March 2025	Reade MC. What military medical lessons have been learnt from the war in Ukraine? 44th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2025.
18 – 21 March 2025	Reade MC. Working alongside developing nations to establish a clinical research program. 44th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2025.
18 – 21 March 2025	Reade MC. Important decision points when establishing a whole blood transfusion program 44th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2025.
18 – 21 March 2025	Reade MC. Should we change to using frozen & cold-stored platelets? 44th International Symposium on Intensive Care and Emergency Medicine, Brussels, 2025.
18 March 2025	Reade MC, Johnson L. Cryopreserved platelets: what we believed, what we know now, and what to do next. ISBT Webinar Series, Maastricht (online), 2025.
28-29 March 2025	Holley, A SWAN trauma, Critical Care and Emergency Surgery Conference. Sydney. March 2025. Provision of Medical Care for Large Scale Combat Operations.
7 April 2025	Dhanani J. IDEAS-B- Inhaled DExmedetomidine for Analgesia and Sedation in Burns : A pilot-feasibility randomised controlled crossover trial .
9-11 April 2025	Holley A, ANZICS ASM Christchurch, NZ April 2025. Resilience in Regional and Global Conflict
9-11 April 2025	Nielson A, Keogh S. Mobilisation overview in a quaternary intensive care unit: A cross sectional descriptive survey. ANZICS/ACCCN ICU ASM 2025 Christchurch, NZ.
9-11 April 2025	Levido A, Keogh S. The conceptualisation of wellbeing as defined by ICU nurses: An interpretive qualitative analysis. ANZICS/ACCCN ICU ASM 2025 Christchurch, NZ.
9-11 April 2025	Keogh S. The prevalence and utilisation of arterial catheters in adult intensive care unit patients: An Australian and New Zealand point prevalence study. ANZICS/ACCCN ICU ASM 2025 Christchurch, NZ.
2-4 May 2025	Reade MC. Why don't we just follow the guidelines? European Society of Intensive Care Medicine EURO-RIYADH, Riyadh Saudi Arabia, 2025
8-10 May 2025	Reade MC, Douglas N, Macneil F. Tourniquet conversion in major haemorrhage – why, when and how? Australian Resuscitation Council Spark of Life conference, Melbourne, 2025.

15-17 May 2025	Holley A Ventilation through The Ages, May 2025. Johannesburg, South Africa. Acute Respiratory Distress in Traumatic Brain Injury.
15-17 May 2025	Holley A, Ventilation through The Ages, May 2025. Johannesburg, South Africa. Trauma Care in Conflict.
May 2025	Holley A Australian Dental Sedation Association. Brisbane May 2025. Blood and resuscitation. May 2025 Brisbane.
May 2025	Holley A Australian Dental Sedation Association. Brisbane May 2025. Ketamine for Conscious Sedation. May 2025 Brisbane.
10-12 June 2025	Reade MC. Trauma research – current status. Collaboration in Clinical Trials in Intensive Care. Monash University Collaborative Planning Meeting, Prato Italy, 2025. (an invitation-only meeting of international clinical trials collaborators planning new research projects)
15-22 June 2025	Keogh S. Infusion Therapy Workshops x 6: Guidelines for the prevention of bloodstream infections and other infections associated with the use of intravascular catheters. BD China Roadshow. Shanghai, Jiangsu, Nanjing, Hubei, Chongqing, Shandong.
23-27 June 2025	Reade MC. Australian military blood research. Five Eyes Science and Technology Collaboration Technical Panel 22 (Military Medicine) Annual Meeting, Toronto, 2025.
20-22 July 2025	Keogh S. Chair of Critical Care Session. AVAS Scientific Meeting. Wollongong, NSW, Australia
20-22 July 2025	Keogh S. PICC insights. A think-aloud study of dressing and securement practice for peripherally inserted central catheters. AVAS Scientific Meeting. Wollongong, NSW, Australia
17-19 September 2025	Reade MC. What more do we need to know about factor concentrates and platelets? ANZ Trauma Society annual conference, Wellington, 2025.
September 2025	Roberts JA. “BLING 3” United Kingdom Critical Care Research Forum, Manchester, UK (Virtual). Invited Speaker.
October 2025	Holley A, Australian Military Medicine Association ASM. Adelaide. October 2025. The New National Blood Authority Critical Bleeding Guidelines.
21-23 November 2025	Reade MC. Military surgery and critical care. General Surgeons Australia conference, Brisbane, 2025

Department of Medical Imaging

Research highlights

Research conducted within the Department of Medical Imaging (DMI) continues to contribute meaningful insights into clinical practice by examining new diagnostic and interventional approaches. These efforts support ongoing improvements in patient care across all imaging modalities. In 2025, projects spanned a broad range of topics, including improving outcomes following neurointerventional treatment, examining the use of spectral CT to enhance disease diagnosis, evaluating patient outcomes for image-guided therapies, and assessing the potential impacts of emerging imaging software and hardware on diagnosis and treatment pathways.

DMI also remains active in departmental, interdepartmental, and multi-site collaborative research. The DMI Research Office manages approximately 70 service-based studies, providing imaging support for research projects and clinical trials initiated by other RBWH departments. Our consultants, registrars, nurses, radiographers, and scheduling officers contribute expertise in imaging protocols, clinical diagnosis, interventional procedures, and case management, ensuring these projects receive comprehensive and consistent support.

Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
Pranathi Settippalli	Oral abstract first prize	Australian and New Zealand College of Radiologists ASM 2025

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
Pranathi Settippalli, Sam Davis, Nigel Mott	Department of Medical Imaging	Comparison of long-term outcomes after medical management versus suction thrombectomy for pulmonary embolism	Royal Australian and New Zealand College of Radiologist	\$3,450	1 Year, 2024-2025

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Muhammed Amjadeen	Elizabeth Wootton, David Pattison, Roslyn Francis	Management Impact of Fluorocholine PET / CT for Primary Hyperparathyroidism – A Novel Tertiary Centre Experience	Not applicable	N/A
Muhammed Amjadeen	Becky Chan, Sam Kyle	Detection Rate of Occult Malignancy with [18F]FDG PET/CT for patients with negative or indeterminate CT findings: A Retrospective Review	Not applicable	N/A
Alan Coulthard	Rebecca Liong, Marita Prior, Ee Shern Liang, Anita Pelecanos, Jeffery Lipman, Jason Roberts, Steve O'Donoghue	EPICCS II: Efficacy of single versus split dose enoxaparin post elective neurointervention in prevention of thromboembolic events – a randomised study	Involvement	124

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Alan Coulthard	Lindy Jeffree, Nicole Waters, Thomas Robertson, David Reutens, Maria Saithi, Jeff Hocking	High field magnetic resonance imaging of hippocampal sclerosis	Involvement	9
Alan Coulthard, Craig Winter	Zhiyong Li, Pranathi Settipalli , Aiyapa Ajikuttira, Jessica Benitez Mendieta, Haveena Anbananthan	Identifying vulnerable intracranial aneurysms using MR vessel wall imaging and correlating with intra-aneurysmal computational fluid dynamics, aneurysm morphology and aneurysm thin-walled regions.	Not applicable	N/A
Alan Coulthard	Ee Shern Liang, Craig Winter, Kennedy Wong, Rohan Tollenaere, Marita Prior	High resolution vessel wall imaging in ruptured intracranial aneurysms	Involvement	24
Alan Coulthard	Pranathi Settipalli , Vignesh Raman, Gregory Lock, Permesh Dhillon	Audit of outcomes in blood blister and dissecting aneurysms	Not applicable	N/A
Annika Cruikshank	Sam Davis	Retrospective voxel-based dosimetry correlating absorbed tumour dose and outcomes in patients undergoing selective internal radiation therapy for hepatocellular carcinoma	Not applicable	N/A
Karen Dobeli	Karin Steinke, Timothy Wastney , Peter Kench, Amanda Wright, Mykaela Gordon, Philip Miller, Wilbur Wong, Kim Nguyen, Rachael Anstey , Stacey Llewellyn	3-Dimensional spectral CT analysis of body lesions: A pilot study	Not applicable	N/A
Arani Halder	Andrew Whittering, Anthony Franklin	Outcomes of Microwave Ablation for T1a Renal Cell Carcinomas	Not applicable	N/A
Katherine McCoombe	Karen Dobeli , Peter Kench, Steven Meikle, Stacey Llewellyn	Uric acid versus no uric acid urinary calculi: in vivo differentiation using detector-based spectral CT	Not applicable	N/A
Katherine McCoombe	Karen Dobeli , Peter Kench, Steven Meikle, Dean McCoombe, Timothy Wastney , 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	Not applicable	N/A
Katherine McCoombe	Karen Dobeli , Peter Kench, Steven Meikle, Stacey Llewellyn	Characterisation of urinary calculi in presence of iodinated contrast medium using spectral CT: a phantom study	Not applicable	N/A
Phillip Melville	Timothy Wastney, Karen Dobeli	Detector based spectral CT for the detection of non-calcified gallstones	Not applicable	N/A
Rebekah Onsley	Karen Dobeli	IMR vs iDose: dose optimisation comparison of two iterative reconstruction algorithms for the detection of small, low contrast liver lesions on multidetector computed tomography (MDCT).	Not applicable	N/A
Pranathi Settipalli ,	Lachlan Inch, Andrew Taylor, Sam Davis, Nigel Mott, Chris Zappala, Robert Boots	Comparative study of long-term outcomes after management of pulmonary embolism	Involvement	21
Karin Steinke, Lizbeth Kennedy	Catherine Bettington, Gary Pratt, Philip Chan	MASTER	Involvement	9

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Olivia Wu	Karen Doheny, Karen Dobeli, Megan Kenna, Lee Jones	Correlation between iodine density in normal abdominal tissue on spectral CT and patient size	Not applicable	N/A

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
David Fielding	Farzad Bashirzadeh, Jung-Hwa Son, Karin Steinke, Peter Simpson, Katia Nones, Louisa Gordon, Gunter Hartel, Nic Waddell, Phan Nguyen	Streamlining lung cancer diagnosis through genomic testing of cytology.	Involvement	
David Fielding	Karin Steinke, Farzad Bahirzadeh, Dona Kafili, Kimberley Ryan, Jung Hwa Son	A Low-Impact Trial of Virtual Triaging of Referrals for Lung Nodules – developing a framework for Incidental and CT Screening referrals.	Not applicable	N/A
Helen Kavnoudias	Nigel Mott, Ken Mitchell	The Australian Vertebroplasty Registry (VAST Registry)	Not applicable	N/A
Giovanni Mandarano	Karen Dobeli, 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	Not applicable	N/A
Kristen Moloney	Andreas Obermair, Neville F Hacker, Carlos Salomon, Eva Baxter, Shohreh Rezai	Feasibility of Groin Ultrasound to Predict Groin Lymph Node Involvement in Patients with Histologically Proven Vulvar Cancer	Involvement	
Andreas Obermair, Andrea Garret	Neville F Hacker, Shohreh Rezai, Eva Baxter, Carlos Salomon, Zoe West	Randomised Feasibility Study of Groin Ultrasound Surveillance Versus Groin Node Surgery to De-Escalate the Extent of Surgery in Queensland Women with Vulvar Cancer (NODE Study)	Involvement	
John O'Sullivan	Jennie Roberts, Peter Nestor, Clare Berry, Marita Prior, Robert Adam, Katie McMahon, Paul Thomas, Pranav Sharma, Lisa Gribbin, Karen Lindsay	Validating Magnetic Resonance Diagnosis in Parkinson's Disease.	Involvement	
Ryan Sommerville	Charles Lin, Jennifer Gillespie, Jason Papacostas, Richard Gan, Ankit Patel, Paul Thomas, Brett Hughes, Gishan Ratnayake, Chris Oosthuizen, Catherine Barnett, Touraj Taheri	Utility of high-resolution MRI for Perineural Spread of Head and Neck Cancers	Involvement	

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Craig Winter Ryan Sommerville	Hamish Alexander, Abigail Walker, Wallace Walker, Timothy Sullivan, Jennifer Gillespie, Stephanie Yau	The Use of Ultra High-resolution MRI for the assessment of Cranial Neuropathies in Base of Skull Tumours	Not applicable	N/A

Research Publications

Authors

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Grace Aw	
Cameron Brown	https://orcid.org/0000-0001-6758-1653
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Michelle Fenech	https://orcid.org/0000-0003-40188-2645
Stephanie Geissmann	https://orcid.org/0009-0006-4000-3830
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Nicholas Watson	https://orcid.org/0000-0003-2705-4132

Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

Clark DA, Dobeli K, Allen D, McWhinney B, Lonne M, GUSH Study Collaborators, **Edmundson A**. Drain fluid iodine as a biomarker of anastomotic leak after low anterior resection in patients undergoing Gastrografin rectal tube flushes and omission of a diverting ileostomy: The GUSH study. *Colorectal Dis*. 2025;27(2):e70031. doi:10.1111/codi.70031

Settipalli KP, Dunkerton S, Hilton J, Aw G, Lock G, Mitchell K, Coulthard A. The ELVIS study: Medium and long-term Efficacy of LVIS EVO stent-assisted coil embolisation for unruptured saccular intracranial aneurysms-A tertiary single-centre experience. *J Med Imaging Radiat Oncol*. 2025;69(2):212-220. doi:10.1111/1754-9485.13820

Fielding D, Sidhu C, **Alkhatir M**, Alawami, M, Kops S, van der Heijden E, **Bashirzadeh F, Windsor M, Nixon E, Son JH**, Setty NA, **Pattison D, Fong W, Bhatt M, Dhiantravan N, Ramsay S, Boots R, Putt M, Pratt G, Bettington C**, Francis R, **Thomas P, Steinke K**, Thomas R. Biopsy decision for intermediate-high-risk lung nodules is significantly changed when guided by prior positron emission tomography/CT (PET/CT) results: results of the prospective PET-FIRST study. *BMJ Open Respir Res*. 2025;12(1):e002553. Published 2025 Jun 1.

Rizzuto I, **Rezai S, Lane A, Prior M**, Robledo KP, Obermair A. Subjective Assessment of Adnexal Masses Using Various Ultrasonographic Diagnostic Models: An Analysis of Interobserver Variability. *Aust N Z J Obstet Gynaecol*. Published online May 15, 2025. doi:10.1111/ajo.70036

Scheicher J, Riley P, **Dobeli K**, Yelder P, Mandarano G. Exploring the Capability of Spectral Detector CT to Identify Zinc and Magnesium in the Prostate Gland: A Proof-of-Concept Study. *iRadiology*. Published online October 16, 2025. doi.org/10.1002/ird3.70039

Ajjikuttira AA, Li S, Haghighatpanah M, Sharma P, Jeffree R, Roberts J. Computed Tomography and Magnetic Resonance Imaging Findings in Early Glioblastoma (e-GBM): Spotting the Wolf in Sheep's Clothing. *Cureus*. 2025;17(9):e92895. Published 2025 Sep 22. doi:10.7759/cureus.92895

Shaw TB, Ribeiro FL, Zhu X, Aiken P, Bollmann S, Bollmann S, Chang J, Chidley K, Dempsey-Jones H, Eftekhari Z, **Gillespie J, Henderson RD**, Kiernan M C, Ktena I, **McCombe PA**, Ngo ST, Taubert ST, Whelan BM, Ye X, Steyn FJ, Barth M. Segmentation of the human tongue musculature using MRI: Field guide and validation in motor neuron disease. *Comput Biol Med*. 2025;196(Pt B):110824. doi:10.1016/j.combiomed.2025.110824

Keynote or Plenary Lectures given in 2025

Date	Title
01/08/2025	Karen Dobeli. Designing a clinical trial for success: My top 10 tips to take your research from concept to kick off. Interventional Radiology Society of Australasia Annual Scientific Meeting 2025, Melbourne
28/03/2025	Karen Dobeli. AI in MRI. Australian Society of Medical Imaging and Radiation Therapy Annual Scientific Meeting 2025, Adelaide (Session chair)
27/03/2025	Jennifer Gillespie. Orbital perineural tumour spread. Australian and New Zealand Society of Neuroradiology, Perth
21/07/2025	Jennifer Gillespie, Evaluation of pituitary lesions, Radiopaedia Virtual Conference
14/08/2025	Jennifer Gillespie, Complicated sellar and parasellar lesions, Stereotactic Interest Group of Australasia, Gold Coast
15/08/2025	Jennifer Gillespie. MRI of pituitary tumours. Australian and New Zealand Pituitary Alliance, Gold Coast
10/09/2025	Jennifer Gillespie, Imaging of skin cancer, European Society of Head and Neck Radiology, Glasgow

Department of Nuclear Medicine

Research highlights

The Department of Nuclear Medicine (DNM) at the Royal Brisbane and Women's Hospital (RBWH) is one of the largest in Australia. It provides a referral, diagnostic and therapeutic nuclear medicine service with four SPECT/CT gamma cameras and one SPECT. Research interests in nuclear medicine include image reconstruction methodologies, application of gating and bone mineral densitometry in various disease states.

The department hosts the state-wide Specialised PET Services Queensland, which operates two PET/CT scanners and Q-TRaCE, a TGA accredited radiopharmaceutical laboratory operating a cyclotron. It offers research facilities to a wide variety of investigators. In addition to conventional tracers such as fluorodeoxyglucose (^{18}F FDG), [^{68}Ga]Ga-DOTATATE, [^{68}Ga]Ga-PSMA-11 and [^{18}F]DOPA, the Service also conducts and supports research using, [^{18}F]RP-115, [^{18}F]FEOBV, [^{18}F]NAV-4694, [^{18}F]MK-6240, [^{18}F]FCH, [^{68}Ga]Ga-FAPI-46, [^{68}Ga]Ga-DOTA-A9T-3202, NaI[^{124}I] and [^{89}Zr]Zr-10D7. There is also ongoing research interest in image reconstruction algorithms, respiratory gating and image analysis techniques.

The department also provides a theranostic radionuclide service for patients with inoperable neuroendocrine tumours as well as participation in multi-centre trials for the treatment of metastatic prostate, neuroendocrine tumour (NET), merkel cell and thyroid cancer. Whilst predominantly focused upon clinical service delivery, retrospective analysis of patients previously treated in our statewide NET service aims to more effectively tailor our treatment to patients most likely to benefit and minimise the risk of side effects.

DNM provides ongoing support for Herston Imaging Research Facility (HIRF) projects, including joint appointment of a NIF Radiochemistry Fellow (UQ/HIRF) working in the Q-TRaCE laboratories. This position supported radiolabelling for a first in human clinical trial of a new radio-imaging agent to guide targeted therapy for epithelial ovarian cancer (ZOvCa trial) which commenced in 2025. ZOvCa is a collaborative trial involving multiple departments at RBWH, including HIRF, DNM and Medical Oncology. A national news feature highlighted this trial in 2025, with video footage filmed in the DNM and Q-TRaCE labs.

In collaboration with Cancer Care Services, DNM participated in 7 multicentre radionuclide therapy trials this year:

- TheraPb Phase Ib/Ila (prostate cancer)
- UpFront PSMA study (prostate cancer)
- EVOLUTION study (prostate cancer)
- GoTHAM study (Merkel cell carcinoma)
- I-FIRST study – central dosimetry / image review site (radioactive iodine refractory thyroid cancer)
- PSMAAction (prostate cancer)
- PSMA DC (prostate cancer)

New radiopharmaceuticals implemented and produced at Q-TRaCE for use in clinical research studies in 2025:

- [^{68}Ga]Ga-DOTA-A9T3202 for PET imaging melanoma
- [^{89}Zr]Zr-10D7 for ZOvCa (ovarian and bladder cancer trials open for recruitment, with trials in breast and pancreatic cancer also planned)
- [^{124}I]I-AT-01 for cardiac amyloidosis study (produced as Q-TRaCE statewide capability but imaging study at PAH)

Lead site for first in human phase 1 study using Pb212-ADVC001 (Pb targeted alpha radionuclide therapy for prostate cancer). The department provided expert radiopharmaceutical, medical physics and clinical support for development and implementation of this trial which commenced recruitment in late 2023. In 2025, DNM/QTRaCE collaborated with Advancell to develop in house urine metabolite analysis capability for TheraPb Trial broadening the local capability and expertise in supporting innovative early phase/first in human studies in Queensland.

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
Rose S, Puttick S, Hofman MS, Singh A, Emmett L, Thurect K, Pattison DA , Egan G, Kong G, Bezak E, Barkil C, Ioppolo J	Nuclear Medicine & PET Services	Australian Research Network for Translation of Targeted Alpha Therapies	MRFF – National Critical Research Infrastructure	\$9.8 million	2022 - ongoing
Scott A, Robinson R, Pattison DA , Gilfillan C, Clifton-Bligh R, Bailey D, Francis R , Barnes E, Solomon B, Mulhern B.	Nuclear Medicine & PET Services	Medical Research Future Fund (MRFF) grant for I-124 PET Directed Redifferentiation Therapy for Radioiodine Refractory Thyroid Cancer: the I-FIRST Study	MRFF – Rare Cancers Rare Diseases & Unmet Need	\$2.7 million	2021 – 2025
Wootton E , Pattison DA , McLeod D , Donovan P , Wong C , Campbell L , Pelecanos A, Collins L, Amjadeen M .	Nuclear Medicine & PET Services, Endocrinology, Endocrine Surgery	Pilot evaluation of [18F]FCH PET/CT vs conventional imaging techniques (neck US, 4DCT and sestamibi SPECT/CT) for localization of primary hyperparathyroidism	Queensland Technology Future Fund (QTFF)	\$244,246	2 years, 2024-2026
Burge M , Wyld D , Pattison DA , Chantrill L, Michael M, Whitehall V, De Abreu Lourenco R, Price T, Ng CA, Chan D, Ransom D.	Nuclear Medicine & PET Services, Medical Oncology	Cessation of Somatostatin Analogues after Peptide radionuclide Therapy in non-functioning mid-gut Neuroendocrine tumours (STOPNET Trial)	Medical Research Future Fund – Rare Cancers Rare Diseases and Unmet Need	\$1.285 million	5 years, 2024-2028
Lindell-innes R , Scott A , Francis RJ , Henden A, Boots R, Chambers D	Dept of Haematology & Dept of Nuclear Medicine & PET Services	Ga68 FAPI PET assessment of pulmonary chronic graft versus host disease	RBWH Foundation	\$49 961	2024-2026
Scott A , Pattison D , Henden A , Varelias A .	Dept of Haematology & Dept of Nuclear Medicine & PET Services	FDG-PET prediction of gastrointestinal graft-versus-host disease	SERTA RBWH Project Grant	\$50,000	2025-2027

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Wootton E, Pattison DA	McLeod D, Francis RJ, Donovan P, Kyle S, Campbell L, Gray L, Wong C, Dias S, Croft T, Dhiantravan N.	PARA-PET - a randomised diagnostic imaging trial of fluorocholine PET/CT vs conventional imaging in primary hyperparathyroidism	Involvement	48
Dias, S Pattison, DA	Francis RJ, Wyld D, Nalder M, Ng G, Patford S, Campbell L.	[⁶⁸ Ga]Ga-DOTATATE PET/CT Prediction and Response Assessment of Metastatic Neuroendocrine Tumours treated with Peptide Receptor Radionuclide Therapy at The Royal Brisbane and Women's Hospital	Not Applicable	32
Ramsay, S Atherton, J	Bhatt M,	Multi Centre Registry of Individuals Undertaking Bone Scans to Assess for Suspected Transthyretin (ATTR) Cardiac Amyloidosis	Involvement	5

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Wyld D, Pattison DA	Campbell L, Latter M, Dhiantravan N, Francis RJ, Lucas C, Brady J, Kuchel A, Goh J, Gan CL, Griffiths, M, Wallace, B	Phase Ib/IIa Dose Escalation and Expansion Study of [²¹² Pb]Pb-ADVC001 in Metastatic Castration Resistant Prostate Cancer (TheraPb – Phase I/II Study	Involvement	6
Scott A	Robinson R, Pattison DA , Gilfillan C, Clifton-Bligh R, Bailey D, Francis R , Barnes E, Solomon B, Mulhern B.	I-124 PET Directed Redifferentiation Therapy for Radioiodine Refractory Thyroid Cancer: the I-FIRST Study	Involvement	3
Scott A	David Pattison, Andrea Henden, Antiopi Varelias.	The Microbiome in Transplant and Cellular Therapy (Micro-TCT) study	Involvement	5
Tong S	Davis J, Scott A, Francis RJ , Goodman A, Cook G, Paul M, Marsh J & McGlothlin A	PET/CT for Staphylococcus aureus bloodstream infections: an international, multicentre, randomised controlled trial	Consultation	8
A Scott	A Nowak, RJ Francis , H Gan, R Hick, F Foroudi, E-S Koh, M Rosenthal, M Khasraw, M Ebert.	Prospective, multicentre trial evaluating FET-PET in high grade glioma.	Involvement	2
Francis RJ	Hooper J, Munro T, Wyld D , Perrin L, Lourie R, Power J, Williams C	A new radio-imaging agent to guide targeted therapy for epithelial ovarian cancer (ZOvCa)	Involvement	3

Research Publications

Authors

Investigator	ORCID ID
David Pattison	https://orcid.org/0000-0001-9718-5598
Melissa Latter	https://orcid.org/0000-0001-5382-9611
Roslyn Francis	https://orcid.org/0000-0002-6256-1351
Nattakorn Dhantravan	https://orcid.org/0000-0003-3188-450X

Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

Francis RJ, Bailey DL, Willowson K, **Latter MJ**, Chappell B, McGill G, Hofman MS, Emmett L, Scott AM. ARTnet Perspectives and Contributions to Theranostics. *World J Nucl Med*. 2025 Oct 14;24(3):231-237. doi: 10.1055/s-0045-1812309.

Molin K, Ong JSL, Werf SV, **Francis RJ**, Hassan GM, Ebert MA, Kendrick J. RECIP 1.0 more predictive of overall survival than PSMA PET progression criteria in biochemically recurrent prostate cancer. *Eur J Nucl Med Mol Imaging*. 2025 Oct 28. doi: 10.1007/s00259-025-07592-6. Online ahead of print.

Kendrick J, **Francis RJ**, Hassan GM, Ong JSL, Jeraj R, Barry N, Ebert MA. Deep learning-based PSMA PET segmentation repeatability: A post-hoc analysis of a single-center, prospective, test-retest trial. *Radiol Med*. 2025 Oct 30. doi: 10.1007/s11547-025-02137-1. Online ahead of print.

Barry N, Kendrick J, Rowshanfarzad P, Hassan GM, **Francis RJ**, Bucknell N, Koh ES, Scott AM, Ebert MA, Gutsche R, Ciantar KG, Galldiks N, Langen KJ, Lohmann P. An External, Independent Validation of an O-(2-[18F]Fluoroethyl)-L-Tyrosine PET Automatic Segmentation Network on a Single-Center, Prospective Dataset of Patients with Glioblastoma. *J Nucl Med*. 2025 Jun 2;66(6):948-953. doi: 10.2967/jnumed.124.268925.

Chen DC, Buteau JP, Emmett L, Alipour R, de Galiza Barbosa F, Roberts MJ, McVey A, O'Brien J, Levy S, **Francis RJ**, Lawrentschuk N, Murphy DG, Hofman MS. Prevalence and Medium-Term Outcomes of Patients with Biopsy-Proven Intermediate- to High-Risk Prostate Adenocarcinoma with Low Intraprostatic Uptake on [68Ga]Ga-PSMA-11 PET/CT in the proPSMA Study. *J Nucl Med*. 2025 May 1;66(5):713-718. doi: 10.2967/jnumed.124.268901.

McGahan W, Chadwick A, **Lindsay K**, Gulhane B, **Latter MJ**, O'Rourke T, **Thomas PA**, Cavallucci D. 68Ga-FAPI PET/CT Prevents Futile Surgery and Demonstrates Tumor Biology in Patients with Pancreatic Ductal Adenocarcinoma. *Journal of Nuclear Medicine*. 2025 Dec 1;66(12):1903-7. DOI: <https://doi.org/10.2967/jnumed.125.270510>

Emmett L, Papa N, Subramaniam S, Crumbaker M, Nguyen A, Joshua AM, Sandhu S, Weickhardt A, Lee ST, Ng S, **Francis RJ**, **Goh JC**, **Pattison DA**, Tan TH, Kirkwood ID, Ayati N, Niu C, Hofman MS, Martin AJ, Thomas H, Davis ID, Stockler MR. Prognostic and predictive value of baseline PSMA-PET total tumour volume and SUVmean in metastatic castration-resistant prostate cancer in ENZA-p (ANZUP1901): a substudy from a multicentre, open-label, randomised, phase 2 trial. *Lancet Oncol*. 2025; 26:1168-1177. doi: 10.1016/S1470-2045(25)00339-0.

Roberts MJ, **Roberts NA**, Pelecanos A, Yaxley JW, Harley SJD, Siriwardana AR, **Cullen K**, **Prior M**, **Lindsay K**, Vela I, **Kuchel A**, **Dhantravan N**, **Thomas P**, **Pattison DA**. A prospective, multi-centre trial of PSMA-PET compared to FDG-PET for staging of newly diagnosed high risk prostate cancer. *EJNMMI Res*. 2025;15(1):92. doi: 10.1186/s13550-025-01265-z.

Pattison DA, Kong G, Akhurst T, **Burge M**, Chiang C, Hofman MS, Hung TJ, **Love A**, Michael M, Okano S, Ravi Kumar AS, Sachithanandan N, **Wyld D**, Hicks RJ. Peptide receptor radionuclide therapy in malignant insulinoma. *Endocrine Related Cancer*. 2025; 32(6):e250018. doi: 10.1530/ERC-25-0018.

Fielding D, Sidhu C, Alkhatir M, Alawami M, Kops SEP, van der Heijden EHFM, **Bashirzadeh F**, **Windsor M**, Nixon E, Son JH, Ananda Setty N, **Pattison DA**, **Fong W**, **Bhatt M**, **Dhantravan N**, **Ramsay S**, **Boots R**, **Putt M**, **Pratt G**, **Bettington C**, **Francis R**, **Thomas P**, **Steinke K**, Thomas R. Biopsy decision for intermediate-high-risk lung nodules is significantly changed when guided by prior positron emission tomography/CT (PET/CT) results: results of the prospective PET-FIRST study. *BMJ Open Respir Res*. 2025; 12(1):e002553. doi: 10.1136/bmjresp-2024-002553.

Kwan EM, Ng SWS, Tolmeijer SH, Emmett L, Sandhu S, Buteau JP, Iravani A, Joshua AM, **Francis RJ**, Subhash V, Lee ST, Scott AM, Martin AJ, Stockler MR, Donnellan G, Annala M, Herberts C, Davis ID, Hofman MS, Azad AA, Wyatt AW; **TheraP Investigators and the ANZUP Cancer Trials Group**. Lutetium-177-PSMA-617 or cabazitaxel in metastatic prostate cancer: circulating tumor DNA analysis of the randomized phase 2 TheraP trial. *Nature Medicine*. 2025; 31(8):2722-2736. doi: 10.1038/s41591-025-03704-9.

Journal Articles (RBWH staff or consumers in bold)

Emmett L, Subramaniam S, Crumbaker M, Joshua AM, Sandhu S, Nguyen A, Weickhardt A, Lee ST, Ng S, **Francis RJ**, **Goh JC**, **Pattison DA**, Tan TH, Kirkwood ID, Gedye C, Rutherford NK, Kumar ASR, Pook D, Ramdave S, Nadebaum DP, Voskoboynik M, Redfern AD, Macdonald W, Krieger L, Schembri G, Chua W, Lin P, Horvath L, Bastick P, Butler P, Zhang AY, McJannett M, Thomas H, Langford A, Hofman MS, Martin AJ, Davis ID, Stockler MR. Overall survival and quality of life with [177Lu]Lu-PSMA-617 plus enzalutamide versus enzalutamide alone in metastatic castration-resistant prostate cancer (ENZA-p): secondary outcomes from a multicentre, open-label, randomised, phase 2 trial. *Lancet Oncology*. 2025; 26(3):291-299. doi: 10.1016/S1470-2045(25)00009-9.

Bailey DL, Willowson KP, O'Keefe G, **Goodman S**, **Patford S**, McGill G, **Pattison DA**, Scott AM; I-FIRST investigators and ARTnet. A Method for Validating PET and SPECT Cameras for Quantitative Clinical Imaging Trials Using Novel Radionuclides. *Journal of Nuclear Medicine*. 2025; 66(2):315-322. doi: 10.2967/jnumed.124.268578.

Keynote or Plenary Lectures given in 2025

Date	Title
20/2/25	ANZSNM/ACPSEM Dosimetry Symposium Invited speaker: Clinical value perspective of dosimetry in radiopharmaceutical therapy: challenges & opportunities (D Pattison)
13/3/25	International Women's Day – Women in Imaging UQ Invited guest speaker (R Francis)
12/5/25	26th International Symposium on Radiopharmaceutical Sciences (Session Chair – Scientific Session 03: Oncology 1): M Latter
24/5/25	55 th Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine (Session Chair – Radiopharmaceutical Science Sessions): M Latter
21/6/25	Society of Nuclear Medicine and Molecular Imaging (USA) CE Session: PSMA Theranostics 'Alpha PSMA theranostics: Can Lead be the Leader?' (D Pattison)
23/6/25	Society of Nuclear Medicine and Molecular Imaging (USA) CE Session: The ART of Clinical Trials – Generating evidence for changing practice 'Establishing a multicentre clinical trials network in Nuclear Medicine' (R Francis) 'Dosimetry and Central Review in Nuclear Medicine Clinical Trials' (D Pattison)
24/6/25	Society of Nuclear Medicine and Molecular Imaging (USA) CE Session: Recent Developments and Issues in Differentiated Thyroid Cancer 'Static and Dynamic Risk Stratification in Thyroid Cancer Patients. Benefits, Limitations and Impact in Real World Clinical Practice' (D Pattison)
16/9/25	COGNO annual scientific meeting Invited speaker: New Horizons in molecular imaging and therapy for neuro-oncology: establishing pathways for evidence generation and impact (R Francis)
7/11/25	Australia & New Zealand Thyroid Congress Invited speaker: Re-differentiation therapy (D Pattison)
28/11/25	Brisbane Cancer Conference (Session Chair – theranostics): D Pattison / R Francis Invited speaker: 'The evolving role of molecular imaging in enhancing outcomes in theranostics' (R Francis)



The RBWH Nuclear Medicine and Medical Oncology teams are leading the Actinium-225 PSMA clinical trials

Genetic Health Queensland

Research highlights

Key outcomes and research achievements for Genetic Health Queensland (GHQ) in 2025:

GHQ celebrated 30 years as Queensland’s only public clinical genetics service. During this time GHQ has supported over 350,000 Queenslanders. To mark the anniversary, GHQ provided a presentation at the RBWH Education Centre reflecting on the past 30 years of the service and potential next steps for the future of GHQ. Key stakeholders were also invited to present, including previous patients of the service and the Metro North Board Chair and Metro North Acting Chief Executive Officer. This event was followed by a lunch attended by past and present GHQ staff.

The Australian Undiagnosed Disease Network (UDN-Aus) completed recruitment in December 2024 with a total of 38 QLD families participating in the study. 2025 remained a busy year for UDN-Aus at GHQ as testing and analysis of enrolled families continued with regular multidisciplinary team meetings.

ZERO2 has also commenced looking at genomic testing in childhood cancer and the GHQ team are involved in many aspects of this study.

A GHQ clinician continues as the state lead for PreGen, a national study evaluating impact of genomic testing in the prenatal setting. This project involves several of the GHQ team.

In 2025, substantial funding was secured through the MRFF Genomics Health Futures Fund to enhance the uptake of clinical genomics into practice. The Nursing Compendium for Genomic-Informed Care (NGenCare) project aims to enable nurses to facilitate access to genetic and genomic testing for people affected by cancer. GHQ members of the project team include Professor Julie McGaughan, Dr Chirag Patel and Dr Fallon Noon.

The IMPRESSION clinical trial started recruiting at GHQ towards the end of 2025. Following on from the PRiMo trial, IMPRESSION aims to provide data on patient experiences, clinical outcomes, and health service implications to guide the implementation of polygenics risk scores into clinical practice for Breast, Ovarian, Bowel and Prostate cancers. This trial includes funding for a genetic counsellor (Project Coordinator) and clinical geneticist (PI) based at GHQ.

GHQ clinicians have collaborated with clinicians from Metro South Health for the REN-Q study - Rare Endocrine Neoplasia: a Queensland Perspective. This study aims to define the Queensland experience in relation to AIP and CDC73 genetic variants. It will review the clinical phenotype and penetrance of disease for individuals in Queensland with a pathogenic variant as a quality assurance measure to optimise risk management guidelines further for our population. Data collection is underway.

GHQ has been proud to host immersion registrars through the Genomics Immersion Program, an Office of Research and Innovation (ORI) sponsored initiative promoting genomic literacy and upskilling in clinical genetics concepts in trainees in non-genetics specialties.

As a state-wide service, GHQ has a focus on health equity for First Nations patients. GHQ has a clinician as Chief Investigator on the Pathways to benefit for Indigenous Australians in Genomic Medicine project. A clinical geneticist is also a Chief Investigator on the preparing Australia for us of genomics in prevention of heart disease, focus on Southeast Asian Australians.

GHQ staff were authors on 13 publications this year, with additional articles under review. GHQ staff have presented at national and international conferences and to other health professional groups and have presented 11 posters.

Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
GHQ staff, past and present		30 years of GHQ

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
Greg Pratt; Professor Julie McGaughran	GHQ	Integrated Genetic Healthcare: Improving access to quality genetic services for Aboriginal and Torres Strait Islander Patients	GHFM	\$1,973,206	3y 2022
Dr Sonia Shah, Professor Julie McGaughran	GHQ (UQ)	preparing Australia for use of genomics in prevention of heart disease: focus on south Asian Australians	GHFM	\$928,898	2022-2025
Professor Julie McGaughran	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
Professor Alex Brown; Professor Julie McGaughran	GHQ	National Indigenous Genomics Network	GHFM	\$4,986,949	5y
Associate Professor Sonia Shah, Professor Julie McGaughran	GHQ	Preparing Australia for use of genomics in prevention of heart disease: Focus on South Asian Australians	MRFF	\$928 899	2022-2025
Associate Professor Jodie Ingles; Professor Julie McGaughran	GHQ	The Elusive Hearts Study; Using genomics to diagnose and manage inherited cardiovascular diseases	GHFM	\$1,499,286	3y
Dr Emma Palmer; Professor Julie McGaughran	GHQ	GeneEqual: equitable and accessible genomics healthcare for people with intellectual disability	NHMRC	\$1,556,865	5y
Professor Jozef Gecz; Professor Julie McGaughran	GHQ	PERSYST; pathogenic Evaluation of Recalcitrant Variants by Systematic Transactivation	MRFF	\$2,996,428	3y
Dr Nathan Palpant; Professor Julie McGaughran	GHQ	TRIAGE; a disease agnostic computational and modelling platform to accelerate variant classification	GHRM	\$2,997,498	3y
Professor Julie McGaughran	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 – Feb 2025 funding for analysis ongoing
Dr Chirag Patel	GHQ	A national large-scale automated reanalysis program to increase rare disease diagnosis	MRFF	\$3,000,000 (all sites)	Jun 2021- May 2024

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
Dr Chirag Patel	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
Dr Chirag Patel	GHQ	The Australian Functional Genomics Network	MRFF	\$6,000,000 (all sites)	Jun 2021-May 2026
Dr Chris Richmond	GHQ	Genetics Immersion Program	ORI	\$160,000	2024-2026
Professor Kim Alexander; Professor Julie McGaughran , Dr Chirag Patel, Dr Fallon Noon	GHQ	Nursing Compendium for Genomic-Informed Care (NGenCare)	MRFF	\$984,738 (all sites)	2025-2027

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Professor Julie McGaughran	AGHA Flagship, Rachel Austin (Coord), Michael Quinn (PO),	Cardiovascular Genetic Disorders Flagship (AGHA)	Not Applicable	(completed, 134 total)
Associate Professor William Stevenson, Dr Ahmad Alcheikh	Dr Fallon Noon (site PI)	Needs and Management of Inherited Blood Disorders	Not Applicable	9

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Professor Hamish Scott, Associate Professor Chris Barnett	Professor Julie McGaughran Dr Chirag Patel	Genomic autopsy of perinatal death	Not Applicable	N/A
Professor Zornitza Stark	Dr Chirag Patel	A national large-scale automated reanalysis program to increase rare disease diagnosis	Not Applicable	N/A
The Australian Functional Genomics Network	Dr Chirag Patel Dr Di Milnes	The Australian Functional Genomics Network	Not Applicable	N/A
KidGen	Dr Chirag Patel Caitlin O'Connor (GC)	The KidGen National Kidney Genomics Program – improving genomic outcomes for Australian families with genetic kidney disease	Not Applicable	N/A
kConFab (Lead by Stephen Fox)	Professor Julie McGaughran	The Kathleen Cunningham National Research Consortium For Research on Familial Breast Cancer	Not Applicable	Recruitment completed

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
QIMR-Berghofer (Lead by Barbara Leggett)	Helen Mar Fan	Identification of the Gene Causing Hereditary Flat Adenoma Syndrome (RBWH Research Foundation grant)	Not Applicable	N/A
Professor Finlay Macrae (lead)	Dr Helen Marfan (PI) Rachel Austin (CRA)	A randomised double-blind dose noninferiority Trial of aspirin in Lynch syndrome. CaPP3	Not Applicable	Recruitment completed
Professor Melissa Southey	Dr Helen Marfan (PI) Rachel Austin (CRA) Rozanna Alli (CG)	Breast Cancer Refined Analysis of Sequence Tests: Risk and Penetrance (BRASTRAP)	Not Applicable	Recruitment completed
Professor Martin Delatycki, Professor Edwin Kirk, Professor Nigel Laing	Professor Julie McGaughran (site PI)	Genomic Health Futures Mission: McKenzie's Mission, Functional genomics		N/A
Professor John Christodoulou	Professor Julie McGaughran (site PI), Dr Chris Richmond (AI), Rachel Austin (GC)	Australian Undiagnosed Diseases Network (UDN-Aus)	Consultation	~34
Dr Mark Appleyard	Dr Helen Marfan (GHQ contact) Kim Ryan (QLD Coordinator)	Pancreatic screening trial	Not Applicable	~ 10 (now closed)
Professor Georgia Chenevix-Trench Professor Melissa Southey Mary-Anne Young Paul James	Simone McInerney (Project manager), Camron Ebzery (site PI), Melanie Boon (AI), Dr Helen Marfan (AI), Dr Rozanna Alli (AI), Rachel Austin (AI), Carol-Ann Verrenkamp (AI), Simon Troth (AI), Bree Ryan (AI/site PI), Jacintha Luermans (AI), Ciara Harrex (AI), Caitlin O'Connor (AI), Christina Wade (AI), Sarah Foster (AI)	The PRiMo trial	Not Applicable	~299
Tony Roscioli (Chief Investigator) Alyssa Wilson (Program Manager)	Dr Di Milnes (PI)	PreGen Antenatal Genomics and Newborn Care Study (PreGen)	Not Applicable	N/A
Paul Lacaze Adam Brothie Jane Tiller	Dr Rachel Susman (SitePI) Rachel Austin (GC)	DNA Screen	Not Applicable	~30
Kathy Tucker Mark Cowley Paul Ekert	Rozanna Alli (CG) Sarah Foster (GC)	ZERO2	Not Applicable	No recruitment at RBWH
Professor Sandra Cooper (Lead)	Chris Richmond (AI)	RNA for Rare Disease (RNA4RD)	Not Applicable	10
Dr Karen Liddle (Chief investigator)	Chirag Patel (PI)	Precision diagnosis for children with hearing loss: optimising utilisation of imaging and genetic testing	Not Applicable	n/a

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Dr Emma Palmer	Professor Julie McGaughran (PI) Jonathan Rogers (AI) Carla Smerdon (AI)	GeneEqual: equitable and accessible genomics healthcare for people with intellectual disability		TBC
Associate Professor Alison Trainer	Simon Troth (site PI)	EMPOWER	Involvement	3
Dr Raquel Maggis (PI)	Dr Rozanna Alli (site PI) Rachel Austin	REN-Q	Not Applicable	~10, data only
Professor Paul James	Dr Rozanna Alli (site PI) Rachel Austin (GC)	IMPRESSION	Not Applicable	26 consented, 18 enrolled

Research Activity with a Specific Focus on Aboriginal and Torres Strait Islander Peoples

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Number of RBWH Patients Recruited
Professor Alex Brown	Professor Julie McGaughran	Pathways to benefit for Indigenous Australians in Genomic Medicine	NA

Research Publications

Authors

Investigator	ORCID ID
Julie McGaughran	https://orcid.org/0000-0002-0926-7858
Chirag Patel	https://orcid.org/0000-0002-6374-5224
Helen Mar Fan	https://orcid.org/0000-0002-0267-4047
Rachel Susman	https://orcid.org/0000-0002-3682-0620
Rachel Austin	https://orcid.org/0000-0001-5311-2768
Michael Quinn	https://orcid.org/0000-0002-4501-5746
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Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

- Rius R, Compton AG, Baker NL, **Quinn MCJ**, Wu Y, Christodoulou J, Thorburn DR. The Australian Genomics Mitochondrial Flagship: A national program delivering mitochondrial diagnoses. *Genet Med*. 2025 Jan;27(1):101271. doi: 10.1016/j.gim.2024.101271. Epub 2024 Sep 19. PMID: 39305161.
- Johnson R, Fletcher RA, Peters S, ..., **Austin R**, ..., **McGaughran J**, ...; Australian Genomics Cardiac Flagship; A... Pinto YM, Christiaans I, Fatkin D. Titin-related familial dilated cardiomyopathy: factors associated with disease onset. *Eur Heart J*. 2025 Dec 22;46(48):5240-5257. doi: 10.1093/eurheartj/ehaf380. PMID: 40796136; PMCID: PMC12718689.
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- Welland MJ, Ahlquist KD, De Fazio P, Austin-Tse C, Pais L, Wedd L, Bryen S, Rius R, Franklin M, Morrison C, Hall G, Gauthier L, Bloemendal A, Francis DI, Mallett AJ, Mallawaarachchi A, Lockhart PJ, Leventer R, Scheffer IE, Howell KB, Kassahn KS, Scott HS, **McGaughran J**, Christodoulou J, Thorburn DR, Thompson BA, **Patel CV**, Smith G, O'Donnell-Luria A, Sadedin S, Rehm HL, Lunke S, Wander J, Samocha KE, Simons C, MacArthur DG, Stark Z. Scalable automated reanalysis of genomic data in research and clinical rare disease cohorts. *medRxiv [Preprint]*. 2025 May 21:2025.05.19.25327921. doi: 10.1101/2025.05.19.25327921. PMID: 40661289; PMCID: PMC12258758.
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- Mounavi Vemula, Bergithe E. Oftedal, Dorsa Iraj, Mélanie Migaud, **Christopher Richmond**, Syndia Lazarus, Jean-Laurent Casanova, Anna Sullivan, Anne Puel, Stuart G. Tangye, Alberto Pinzon-Charry; A novel heterozygous pathogenic AIRE variant causing autoimmunity but not infectious susceptibility. *J Hum Immun* 3 November 2025; 1 (4): e20250151. doi: <https://doi.org/10.70962/jhi.20250151>
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Journal Articles (RBWH staff or consumers in bold)

Lo AKC, Mew T, Mew C, Guppy-Coles K, Dahiya A, Ng A, **McGaughran J**, McCormack L, Prasad S, Atherton JJ. Use of Advanced Echocardiographic Modalities to Discriminate Preclinical Hypertrophic Cardiomyopathy Mutation Carriers From Non-Carriers.

Circ Genom Precis Med. 2025 Apr;18(2):e004806. doi: 10.1161/CIRCGEN.124.004806. Epub 2025 Feb 12.PMID: 3993629

Keynote or Plenary Lectures given in 2025

Date	Title
30/3/2025	An approach to the syndromic child". Paediatric Clinical Examination Preparation Program. Queensland Children's Hospital. 30 th March 2025. Sinead O'Sullivan
15/05/2025	Decision aids for implementing genetic testing in cardiology and endocrinology. CDR Network Meeting, Chirag Patel.
17/05/2025	Approach to Prenatal Genetics. North QLD Maternal Fetal Medicine Seminar. Chris Richmond.
14/08/2025	Introducing the Australian Genomics cardiac genetic testing decision aids. Cardiology Society of Australia and New Zealand annual conference. Chirag Patel.
05/09/2025	Principles of genomic testing. Australian and New Zealand Child Neurology Society trainee course. Chirag Patel.
05/09/2025	Australian Vascular Anomalies Network Inaugural Conference. Chris Richmond.
15/08/2026	Dysmorphology Case Presentation. HGSA 48 th Annual Scientific Meeting. Swaha Bose, Di Milnes.

GHQ 30th Anniversary Event



Pharmacy

Research highlights

The Department of Pharmacy maintains a strong, multidisciplinary, and diverse research program that reflects the broad and integrated roles of pharmacists across the Royal Brisbane and Women's Hospital (RBWH). Our research footprint spans multiple clinical areas, including infectious diseases, critical care, renal medicine, and cancer care. Beyond RBWH, the department continues to strengthen external collaborations with partners, such as The University of Queensland, Princess Alexandra Hospital, The Prince Charles Hospital, and Townsville University Hospital.

In 2025, the department's research excellence was demonstrated in significant funding success. Pharmacy staff contributed to projects with a combined value of more than \$33 million in funding, including \$8 million from grants where RBWH Pharmacy Department employees served as primary investigators. This continued growth in grant activity highlights the department's capacity to lead impactful research that addresses complex medication-related and patient centred challenges.

Research output remained strong, with 71 peer reviewed journal articles published in 2025. Pharmacy researchers also presented 33 abstracts across nine conferences, representing a wide range of clinical and scientific domains. These included multidisciplinary meetings such as the Annual Australian and New Zealand Symposium of Perioperative Medicine, the Australasian College for Emergency Medicine Annual Scientific Meeting, and the Endocrine Society of Australia-Society for Reproductive Biology-Australian and New Zealand Obesity Society Annual Scientific Meeting. This breadth of dissemination highlights the expanding reach and collaborative nature of pharmacy led research across diverse clinical specialties.

In addition to funding and publication achievements, 2025 was marked by notable individual recognition for two members of our team. Anna Zipf received the *Professor Lawrie Powell AC Early Career Research Award* at the Herston Health Precinct Symposium, acknowledging her emerging leadership and contributions to pharmacy research. Dr Carla Scuderi was awarded a prestigious *Winston Churchill Fellowship* for her project 'Investigating the role of pharmacists in improving patient outcomes in chronic kidney disease'. This Fellowship will support Dr Scuderi's international travel in 2026 to the Netherlands, United Kingdom, and the United States of America allowing her to further advance her research program and bring back global insights to benefit RBWH.

Collectively, these achievements reflect the Pharmacy Department's ongoing commitment to high quality, collaborative research that advances patient care, supports evidence-based practice, and strengthens the role of pharmacy within the broader healthcare system.

Successful Research Higher Degree (e.g. MPhil or PhD) candidates in 2025

Name	Degree (e.g. MPhil or PhD)	Title	Month Completed	Affiliated University	Summary
Dr Amy Legg	PhD	Nephrotoxicity of combination antibiotic therapy for <i>Staphylococcus aureus</i> bacteraemia	August	CDU	Completed PhD July 2025. Awarded PHD excellence award from CDU, 2025.
Dr Mikaela Walker	PhD	A dynamic in vitro infection model evaluation of antibiotic regimens for the treatment of carbapenem-resistant <i>Escherichia coli</i> infections	November	The University of Queensland	Focus on various combination therapies involving ceftazidime-avibactam against carbapenem-resistant <i>E. coli</i> .
Dr Saiyuri Naicker	PhD	Suitability of Beta-lactam and Beta-lactamase inhibitor combinations for use in outpatient parenteral antimicrobial therapy	June	The University of Queensland	Focus on the effect of Antimicrobial de-escalation on the emergence of Antimicrobial resistance in gram negative pathogens.
Dr Nilesh Kumta	PhD	Optimising Antibiotic Dosing for Treatment of Nosocomial Central Nervous System Infections in Neurocritical Care Patients	January	The University of Queensland	Project was a binational pharmacokinetic study aiming to optimise antibiotic dosing of critically ill patients with central nervous system infections
Dr Paul Williams	PhD	Optimising Care of Critically Ill Patients Through Improved Antibiotic Dosing	February	The University of Queensland	Focus on guideline-based dosing, therapeutic drug monitoring and precision dosing software.

Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
Anna Zipf	Professor Lawrie Powell AC Early Career Research Award	Herston Health Precinct Symposium 2025
Dr Carla Scuderi	Winston Churchill Fellowship for project entitled 'To investigate the role of pharmacists in improving patient outcomes in chronic kidney disease'	Winston Churchill Trust

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
Samuel Ford	ETC, UQ, Pharmacy	Hypertonic glucose vs Insulin-dextrose to prevent hypoGlycaemia following treatment for HyperKalaemia (HIGH K): A randomised controlled trial in adult participants	EMF Leading Edge Grant	\$90,000	2yrs, 2026-2027
Sinead Carmichael	ICU, Pharmacy	Continuous beta-lactam infusions for critically ill patients: a translation into practice quality improvement study	RBWH Research Project Grant	\$15,000	1 year, 2025-2026
Midori Nakagaki	Cancer Care, Pharmacy	Microbiome-medication interactions and clinical outcomes in transplant and cellular therapy	QLD Health Targeted Fellowship	\$125,000	2 years
Tim Chen, Sarah Hilmer, Ian Coombes, Charles Denaro	Pharmacy + Internal medicine	ASPIRE A Systems approach to enhancing community-based medication Review	MRFF	\$2.7 Million (RBWH + MN PHN is 1 of 4 sites)	5 years
Nazanin Falconer, Neil Cottrell, Ian Coombes , Shelley Wilkinson, Kelvin Robertson, William Wang, Jared Miles, John Atherton , Centaine Snoswell, Vivian Bryce, Sue Carson, Andrew Jones, Laurence Marshman, Michael Barras, Keshia De Guzman	Pharmacy, Cardiology	REducing hospital re-admission for high-risk CARDiology patients (RECARD)	Department of Health and Aged Care, Medical Research Future Fund	\$2.5 million	5 years, 2023 - 2027
Roberts JA , Slavin M, Paterson DL, Comans T, Lipman J , Landersdorfer C, Joynt G, Bellomo R, Clark J, Parker S	ICU	Centre of Research Excellence - REduce the burden of antimicrobial reSistance through oPtimal, perSONalised Dosing (RESPOND)	National Health and Medical Research Council of Australia Centre for Research Excellence Grant (NHMRC APP2007007)	\$2,500,000	5 years, 2021 - 2025
Eoin O'Sullivan, Monica Ng, Robert Ellis, Prudence James, Carla Scuderi , Sonya Coleman	Renal	BOOST-CKD, Better Outcomes via Optimised Sequential Therapy in CKD	2026 Royal Brisbane & Women's Hospital (RBWH) Research Project Grant		2 years, 2026-2027
Shweta Painumpra	Pharmacy	Methotrexate Rescue in Motion: A Pharmacist's Role in Fixed-Dose Glucarpidase Use	RBWH SERTA Education Funding	\$1,500	1 year, 2025
Tognolini A, Eley V, Roberts JA	Anaesthetics	Plasma concentrations and outcomes of an optimised intraoperative lidocaine infusion regimen in patients with obesity	Australia and New Zealand College of Anaesthetists (26/027)	\$90,000	1 year, 2025

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
Harris PNA, Subedi S, Gibbons K, Shekar K, Peri AM , Tabah A, Irwin A, Isler B, Edmunds K, Raman S, Roberts JA , Forde B, Graves B , Schembri M	Infectious Diseases	Integrating sequencing technologies for bloodstream infection and sepsis diagnostics in critically-ill patients	2024 MRFF Genomics Health Futures (MRF2045038)	\$2,926,024	5 years, 2025 - 2030
Gibbons K, Roberts JA , Raman S, Butt W, Ullman A, Schlapbach L, Erickson S, Festa M, Irwin A, Parker S, Narayan S, Gilholm P, Blythe R.	HeIDI	Comparison of Continuous and Extended vs Intermittent Beta-Lactam Infusions in Critically Ill Children with Sepsis – the BUILD Multicentre Binational Randomised Controlled Trial	2023 Medical Research Future Fund (MRFF) Clinical Trials Activity (MRFF 2039667)	\$3,019,732	5 years, 2025 - 2030
Roberts JA	Infectious Diseases	Optimizing antibiotic dosing in the Staphylococcus aureus Network Adaptive Platform trial (O-SNAP)	Herston Infectious Diseases Institute (HeIDI) Collaborative Research Grants 2024	\$70,000	2 years, 2024 – 2026
McQuilten Z, Tong S, Webb S, Higgins A, Ryan E, Venkatesh B, Roberts JA , Tran H, Zacharynski R, McFadyen J, Aung AK, Lawler P, Winearls J, Burrell A	HeIDI	Antithrombotic therapy to ameliorate clinical complications in community acquired pneumonia (ATTACC-CAP)	2023 Medical Research Future Fund (MRFF) International Clinical Trial Collaborations Round 2 (2035628)	\$2,484,939	4 years, 2024 – 2028
Schembri M, Harris P , Henden A , Chan W, Burke A, Divithotawela C, Forde B, Schlebusch S, Phan MD, Edmunds K, Krause L, Jennison A, Roberts JA	HeIDI	Unlocking the gut microbiome to track the spread of AMR genes and pathogens	2023 Medical Research Future Fund (MRFF) Global Health Grant Initiative (MRFGH000028)	\$1,990,643	4 years, 2024 – 2028
Wood E, McQuilten Z, Petrie D, Bielby L, Fanning L, Burgner D, Roberts JA , van der Walt A, Heiss L, Daly J	HeIDI	OPTimising Immunoglobulin Management in Australia	National Health and Medical Research Council of Australia Centre for Research Excellence Grant (NHMRC APP2024876)	\$2,572,000	4 years, 2024 – 2028
Roberts JA, Affenaar JW, Slavin M, Parker S, Lindsay J, Chatfield M, Irwin A, Cunich M, Roberts N, Selby P, Nakagaki M , Lai T, Legg A , Ungerer J.	Haematology	Pharmacogenomics for better treatment of fungal infections in cancer: The PRAGMATIC Study	2022 Medical Research Future Fund (MRFF) 2022 Quality, Safety and Effectiveness of Medicine Use by Pharmacists (MRFMMIP000040)	\$1,499,982	3 years, 2023 – 2026

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
Webb S, McArthur C, Totterdell J, Venkatesh B, Nichol A, McKenzie A, Tong S, Higgins A, Hammond N, Denholm J, Davis J, Roberts JA , McQuilten Z, Burrell A, Cheng A	HeIDI	A coordinated multiplatform randomised trial for hospitalised patients with COVID-19	2021 Medical Research Future Fund (MRFF) COVID-19 Treatment Access and Public Health Activities (MRF2016162)	\$3,997,914	5 years, 2022 - 2027
McQuilten Z, Petrie D, Hawkes E, Reynolds J, Crispin P, Fanning L, Weinkove R, Spencer A, Morrissey CO, Paterson DL, Wood E, Roberts JA , Stanworth S, Mulligan S, Opat S	HeIDI	Generating evidence to improve use of immunoglobulin replacement to reduce infections in blood cancers: The RATIONAL Platform Trial	2021 Medical Research Future Fund (MRFF) Optimising the Clinical Use of Immunoglobulins (MRF2018373)	\$3,984,139	5 years, 2022 - 2027
Roberts JA	HeIDI	Translating precision antibiotic dosing into better outcomes for severe infections	National Health and Medical Research Council of Australia Investigator Grant – Leadership 2 (NHMRC APP2009736)	\$2,772,570	4 years, 2022 – 2026
Evans I, Smith D, Burke A, Roberts JA , Hernandez-Mitre MP	HeIDI	A population pharmacokinetic study of elexacaftor, tezacaftor and ivacaftor (Trikafta) in patients with Cystic Fibrosis with the development of therapeutic drug monitoring targets	The Prince Charles Hospital Innovation Grant 2023	\$97,506	2 years, 2024 - 2025

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Adrienne Kostellar	Nazanin Falconer, Michael Barras, Ian Coombes , Andrew Hale, Carla Scuderi	Characteristics of patients reviewed by a high-risk discharge pharmacist	Partnership	121
Associate Professor Christine Staatz (UQ- Nic's Lead PhD Supervisor)	Nicolas Anning (PhD Student) , Dr Peter Donovan , Dr George Hopkins , Dr Meng-Wong Taing, Associate Professor Karen Whitfield, Associate Professor Alexandra Clavarino	Evaluation of a Post-Bariatric Surgery Pharmacy Service (BariSuPS)	Involvement	35
Associate Professor Christine Staatz (UQ- Nic's Lead PhD Supervisor)	Nicolas Anning (PhD Student) , Dr Peter Donovan , Dr George Hopkins , Zoe Jarrott (Bariatric CNC) , Dr Meng-Wong Taing,	Analysis of Antidepressant Serum Concentration Changes in Patients Undergoing Bariatric Surgery- A Pilot Study	Involvement	3

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Associate Professor Christine Staatz (UQ- Nic's Lead PhD Supervisor)	Nicolas Anning (PhD Student), Dr Peter Donovan, Dr George Hopkins, Dr Meng-Wong Taing, Dr William Olsen	Investigating Community Pharmacist understanding and Resource needs for Pharmaceutical Management After Bariatric Surgery (IPMABS)	Involvement	Nil - Awaiting approvals
Amanda Gwee and Jason Roberts	Amy Legg, Steve Tong, Josh Davis, Marc Scheetz, Max Bloomfield, Andrea Kwa, Paul Williams, Eliza Milliken, Mark Chatfield, Matthew Pellan Cheng, Paul Chin, Mei Zhang, Nick Douglas, Susan Morpeth, Genevieve Walls, Richard Everts	Optimizing antibiotic dosing in the Staphylococcus aureus Network Adaptive Platform trial (O-SNAP)	Involvement	24
Georgina McDermott and Lisa Sorbello	Mitchell Smith, Jared Anderzipf, Jacqueline Donovan, Sarah Cotterell	Optimising medication safety for inter-hospital transfers	Not applicable	129

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Dr Anoushka Kothari	Naythen Hoang	Retrospective audit of the use of Tocilizumab therapy for the treatment of thyroid eye disease at RBWH	Consultation/ Involvement	26
Dr Waseem Henein	Naythen Hoang	Retrospective Aflibercept 8mg Audit at RBWH Ophthalmology Clinic.	Consultation/ Involvement	100+
Dr Clara Lee	Naythen Hoang	Retrospective Faricimab Audit at RBWH Ophthalmology Clinic.	Consultation/ Involvement	100+
Dr Raiza Sharma	Naythen Hoang	Retrospective audit of the visual acuity (VA) of all intravitreal injection (IVIs) patients at RBWH ophthalmology clinic between January 2023 to January 2026 to Quantify the Number of Patients Receiving IVIs with VA Worse than the Specified PBS Snellen Chart Criteria.	Consultation/ Involvement	100+
Dr Samantha Kitson	Naythen Hoang	Retrospective audit of the dosing, and treatment duration of ophthalmology patients receiving valaciclovir for the treatment of herpes simplex keratitis.	Consultation/ Involvement	100+
Josh Davis and Steven Tong	Bridget Barber, Andrew Redmond, Krispin Hajkowitz, Paul Chapman, Julian Harris, Lawrence Huang, Jason Roberts	S. aureus Network Adaptive Platform Trial (SNAP)	Involvement	209

Research Publications

Authors

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Lisa Allard	https://orcid.org/0009-0001-8621-1225
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Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

Legg A, Ferguson JK, Munnoch SA, Davis JS. Not "a cute" complication: phenotypic analysis of acute kidney injury in *Staphylococcus aureus* bacteraemia. *Clin Microbiol Infect*. 2025 Apr;31(4):643-646. doi: 10.1016/j.cmi.2024.12.034. Epub 2024 Dec 31. PMID: 39746444.

JA Roberts, AJ Heffernan, MG Chai, PNA Harris, **A Legg**, A Farkas, K Laupland, J Dhanani, C Fourie, L Murray, H Abdul-Aziz, J Ungerer, B McWhinney, J Lipman, MO Cotta, Resistance Optimised Antibiotic Dosing (The ROAD Study): Is dosing of meropenem and piperacillin-tazobactam optimised to prevent the emergence of antibiotic resistance safe and feasible in the ICU? A pilot study, *CMI Communications*, 2025, 2(1). <https://doi.org/10.1016/j.cmicom.2024.105051>.

Ford S, Coombes I, Williams J, Bertenshaw C, La Caze A. Glucose-only Therapy for Potassium Reduction: A Scoping Review. *Kidney Medicine [Internet]*. 2025 Oct 29;8(1):101161. Available from: <https://www.sciencedirect.com/science/article/pii/S2590059525001979>

Samuel Ford, Julian Williams, **Ian Coombes**, Adam La Caze. Hypoglycaemia and monitoring practices following insulin-dextrose therapy for hyperkalaemia, *JEM Reports*, 2025, 4(1). <https://doi.org/10.1016/j.jemrpt.2025.100142>.

Ford S, Gopalkumar N. ICS prescribing practices in the emergency department: Addressing gaps in asthma management. *Emerg Med Australas*. 2025 Apr;37(2):e70024. doi: 10.1111/1742-6723.70024. PMID: 40033946.

Livori, R., Shaji, C., Tran, D.G.N., **Scuderi, C.**, Dimond, R. and Livori, A. (2025), Renal clinical pharmacy services and outcomes for patients on dialysis: a scoping review. *J Pharm Pract Res*, 55: 271-286. <https://doi.org/10.1002/jppr.70006>

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Conference Abstracts (RBWH staff or consumers in bold). ** represents first time presenters

Abby Yu, Karen Whitfield, Andrew Hale, Michael D'Emden, Centaine Snoswell, 'Cost-effectiveness of a multidisciplinary preoperative diabetes intervention versus usual care in patients undergoing elective surgery at an Australian hospital' presented at 14th Annual Australian and New Zealand Symposium of Perioperative Medicine in Wellington, New Zealand (27-29 November) [poster presentation]

Anna Zipf, 'Are we achieving balanced transfusion in trauma at the RBWH?' presented at ACEM ASM 2025 Gold Coast (23-27 November) [poster presentation]

Conference Abstracts (RBWH staff or consumers in bold). ** represents first time presenters

Samuel Ford, Adam La Caze, Julian Williams, Claire Bertenshaw, 'Safer Hyperkalaemia Management: A Prescribing and Monitoring Form' presented at ACEM ASM 2025 in the Gold Coast, Australia (23-27 November) [poster presentation]

Sophie Anderson, Frances Williamson, Elizabeth Doran, Shea Roffey, 'Contemporary Tranexamic Acid Use in Trauma: A retrospective review of dosing practices' presented at ACEM ASM 2025 in the Gold Coast, Australia (23-27 November) [poster presentation]

Sophie Anderson and Alex Zipf, 'Fast Relief, Slow Discharge: Rethinking IV Chlorpromazine for Migraine' presented at ACEM ASM 2025 in the Gold Coast, Australia (23-27 November) [poster presentation]

Rachael Starkey, Sarah Coker, 'Seeing the risk: a case report of retinal artery occlusion associated with lisdexamphetamine' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [oral presentation]

Shweta Painumpra, 'Methotrexate Rescue in Motion: A Pharmacist's Role in Fixed-Dose Glucarpidase Use' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [oral presentation]

Jenilla Jeng, **Dani Ironside**, 'Evaluation of Guideline Adherence in Perioperative Warfarin Management Among Acutely Admitted Surgical Patients' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Olivia Sanderson, **Gemma Woodruff, Abby Yu, Caitlin Merz**, 'Enhancing Diabetes Care: Pharmacist-Led Medication Reviews in a Weight Loss Service' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

****Joshua Rolfe, Patricia Gleeson, Amelia Anderson, Christopher Accornero, Colette Barnbrook, Elizabeth McCourt**, 'A retrospective audit of post-operative Venous Thromboembolism prophylaxis communication' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

****Mitchell Smith, Georgie McDermott, Lisa Sorbello, Jacqueline Donovan, Jared Anderzipf, Elizabeth McCourt, Brett Sweeney, Sarah Cotterell**, 'Pharmacist Involvement with Inter-Hospital Transfers in a Discharge Transit Centre' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

****Grace Hart, Erin McCaughey, Naythen Hoang, Elizabeth McCourt, Sahra Ashley, Shaun Chandler**, 'Eyeing off the details: The evaluation of patient's ability to read hospital generated medication list' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Stella Setiyawan, Dimity Williams, Dr Chris Hammett, 'My GP Told Me My Cholesterol was Fine!: A Retrospective Audit of 3-Month Lipid Follow-Up Post-Acute Coronary Syndrome' presented at Pharmaceutical Society of Australia PSA25 Conference in Sydney, Australia (1-3 August) [poster presentation]

Stella Setiyawan, Dimity Williams, Dr Chris Hammett, 'My GP Told Me My Cholesterol was Fine!: A Retrospective Audit of 3-Month Lipid Follow-Up Post-Acute Coronary Syndrome' presented at 2025 Herston Health Precinct Symposium in Brisbane, Australia (1-3 September) [oral presentation]

Stella Setiyawan, Dimity Williams, Dr Chris Hammett, 'My GP Told Me My Cholesterol was Fine!: A Retrospective Audit of 3-Month Lipid Follow-Up Post-Acute Coronary Syndrome' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Erin McCaughey, Amy Legg, 'Tailoring Ganciclovir Therapy Through Therapeutic Drug Monitoring in a Challenging Haemodialysis Case' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Anjela Pham-Nguyen, Angela Faint, Zack Austin, Nicholas Smoll, Zaw Thet, Karlee Johnston, Antony Attokaran 'Impact of the Initiation of Therapeutic Anticoagulation Pathway on Medication Safety' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Sarah Risdale, Erin McCaughey, Aislinn Kennedy, 'Portal To Progress: Assessing engagement with a new electronic Adverse Drug Reaction reporting portal' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Adrienne Kostellar, Ian Coombes, Michael Barras, **Carla Scuderi**, Andrew Hale, Nazanin Falconer, 'What criteria do pharmacists use to refer patients to a post-discharge pharmacist review clinic?' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Joanne Wickens, Stephanie Hoy, 'Cariprazine in Pregnancy and Breastfeeding: A Case Report on Safety Considerations and Clinical Decision-Making' presented at Advanced Pharmacy Australia Medicines Management Congress 2025 in Melbourne, Australia (27-29 November) [poster presentation]

Sara Bruce, 'Dual aripiprazole long-acting injection: Can it improve patient flow?' presented at the Metro North Mental Health Symposium [poster presentation]

Caitlin Merz, 'Evaluating the Tertiary Obesity Multidisciplinary Service (TOMS): enhancing diabetes management and surgical readiness through integrated care' presented at Herston Symposium in Brisbane, Australia (3rd September) [oral presentation]

Conference Abstracts (RBWH staff or consumers in bold). ** represents first time presenters

Stella Setiyawan 'My GP told me my cholesterol was fine! A retrospective audit of 3-month lipid follow-up post-acute coronary syndrome' presented at Herston Symposium in Brisbane, Australia (3rd September) [oral presentation]

Anna Zipf 'Is Balanced Transfusion Being Achieved for Trauma Patients at the Royal Brisbane and Women's Hospital Emergency and Trauma Centre' presented at Herston Symposium in Brisbane, Australia (2nd September) [oral presentation]

Kylie Mueller 'The Recruitment riddle: Using Escape Rooms to Hire Life Long Learners' presented at Life Long Learning in Pharmacy in Sydney, Australia (9th July 2025) [oral presentation]

Dr Carla Scuderi, Prudence James, Erin McCaughey, Dr Eoin O'Sullivan and Dylan Lambert. 'Finerenone and potassium in the pillars of chronic kidney disease management' presented at Herston Symposium in Brisbane, Australia [poster]

Anoushka Kothair, Naythen Hoang, Timothy Sullivan, Matthew McCartney 'Evaluating the use of Tocilizumab for the treatment of Thyroid Eye Disease'

C Merz, G. Woodruff, W. Beningfield, A. Cawte, H. d'Emden, S. Ruddell, M. Seymour, K. Singh, A. Yu, R. Hay, H. Maclaughlin. Beyond the Scale: Perspectives on Comprehensive Obesity Management in a Tertiary Multidisciplinary Service. Presented at: ESA-SRB-ANZOS 2025 [oral presentation]

C Merz, G. Woodruff, W. Beningfield, A. Cawte, H. d'Emden, S. Ruddell, M. Seymour, K. Singh, A. Yu, R. Hay, H. Maclaughlin. From Weight Loss to Waitlist: Evaluating the Impact of the Tertiary Obesity Multidisciplinary Service. Presented at: ESA-SRB-ANZOS 2025 [oral presentation]

C Merz, G. Woodruff, W. Beningfield, A. Cawte, H. d'Emden, S. Ruddell, M. Seymour, K. Singh, A. Yu, R. Hay, H. Maclaughlin. Ketones and Kilograms: Exploring Predictors of Weight Loss Success in a Structured Obesity Program. Presented at: ESA-SRB-ANZOS 2025 [oral presentation]

Keynote or Plenary Lectures given in 2025

Date	Title
April 4, 2025	Australasian Society for Infectious Diseases Annual Scientific Meeting, Chair Amy Legg. Session 8B: Antimicrobial Regulation
May 2025	Roberts JA. "PK/PD of Antimicrobials". New Zealand Hospital Pharmacists Association Medicines Information/Clinical Pharmacy (MICP) symposium, Auckland, NZ. Invited Speaker.
June 2025	Roberts JA. "Stability, combinations and subcutaneous infusion of antibiotics The OPAT strategies", Infezioni Difficili nel Paziente Critico (IDiPaC6), Udine, Italy. Invited Speaker.
June 2025	Roberts JA. "Beta-lactams continuous infusion vs intermittent infusion", Infezioni Difficili nel Paziente Critico (IDiPaC6), Udine, Italy. Invited Speaker.
July 2025	Roberts JA. "Precision dosing: optimising antibiotic therapy in and out of the ICU". 8 th World Bronchiectasis Conference, Brisbane, Australia. Invited Speaker.
July 2025	Roberts JA. 2025 Population Pharmacokinetics: From Fundamentals to Clinical Practice. The University of Queensland, Brisbane. Co-Convenor.
August 2025	Roberts JA. "The Next Frontier in Antibiotic Dosing: True Personalisation". Asia Pacific Intensive Care Symposium, Singapore. Plenary.
August 2025	Roberts JA. "Continuous versus extended infusion of beta-lactams". Asia Pacific Intensive Care Symposium, Singapore. Invited Speaker.
August 2025	Roberts JA. "Practicing Precisely: Optimising Antibiotics". Asia Pacific Intensive Care Symposium, Singapore. Invited Speaker.
August 2025	Roberts JA. "How can we best dose immunoglobulin? Applying PK/PD studies to immunoglobulin research". Centre of Research Excellence OPTIMAL Open Meeting, Melbourne. Invited Speaker.
September 2025	Roberts JA. "Antimicrobial dosing and TDM in critical illness" INTREPID Webinar, Australasian Society of Infectious Diseases (ASID), Virtual. Invited Speaker

September 2025	Roberts JA. "Antimicrobial Use in Renal Failure and MIC Targets" Ukrainian Scientific and Practical Conference: Cooperation and Innovation in the Medical Industry. Kyiv, Ukraine (Virtual). Invited Speaker.
September 2025	Roberts JA. "Prolonged infusion of beta-lactam antibiotics: current practice and future research" 9th South Taihu Lake Clinical Pharmacy Conference, Huzhou, China. Keynote.
September 2025	Roberts JA. "What is the future of therapeutic drug monitoring research" 9th South Taihu Lake Clinical Pharmacy Conference, Huzhou, China. Plenary.
September 2025	Roberts JA. "BLING 3" United Kingdom Critical Care Research Forum, Manchester, UK (Virtual). Invited Speaker.



Dr Carla Scuderi was awarded a prestigious *Winston Churchill Fellowship* for her project 'Investigating the role of pharmacists in improving patient outcomes in chronic kidney disease'. This Fellowship will support Dr Scuderi's international travel in 2026 to the Netherlands, United Kingdom, and the United States of America allowing her to further advance her research program and bring back global insights to benefit RBWH

Tess Cramond Pain and Research Centre

Research highlights

The Tess Cramond Pain and Research Centre (TCPRC) has a diverse range of projects, commensurate with the complexity of chronic pain conditions as well as the multidisciplinary nature of the clinical and research teams. Building on the foundation of previous researchers at the Pain Centre, Associate Professor Paul Gray (pain specialist and immediate past director), Dr Nicole Andrews (UQ RECOVER Injury Research Centre and senior occupational therapist) and Dr Andrew Claus (research development coordinator and allied health team leader) are pleased to lead current projects, collaborate on many more, and to foster emerging researchers in the field of persistent pain.

Projects range from novice researcher audits, RBWH sponsored projects to develop new clinical interventions, research higher degree studies that co-develop models of care for specific conditions, collaborations with research fellows at Queensland institutes for basic science and technological innovations in patient assessment, patient education and self-management, to an international clinical trial.

Publications this year include the OMED Assist project (Dr Elphinston, UQ RECOVER Injury Research Centre), to support the safety of opioid medication use in patients on the waitlist for specialist assessment. Dr Andrews in collaboration with CSIRO colleagues, developed and tested the use of a chatbot for verbal, written and drawing modes of patient communication about their pain. The final publication reported on the efficacy of cultural capability training with clinical staff at the TCPRC, for clinical yarning with Aboriginal and Torres Strait Islander patients.

In current projects that are completing data collection, Dr Andrews leads the MOTION clinical trial with occupational therapy and pharmacy to employ digital feedback and gamification that helps patients to progress their physical capacity, reduce opioid use and avoid flaring their pain. Honorary Fellow Dr Scott Farrell is nearing the close of a longitudinal study of small nerve fibres in the epidermis of people with and without whiplash injury. Associate Professor Gray's VITAL study is trialling the effects of intravenous iron supplement infusions for people with persistent pain, and Dr Claus leads multi-year clinical audits of the safety, efficacy and predictors of outcome for intravenous infusions with ketamine and with lidocaine.

Through 2025 an evaluation of our collaborative pain service in Caboolture with the Institute for Urban Indigenous Health, Moreton Aboriginal and Torres Strait Islander Community Health Service was completed. Staff also presented on the service development at the Australian Pain Society annual scientific meeting.

Virtual reality was another key theme of projects through 2025. A project led by Dr Window (RBWH Physiotherapy Department) trained patients with low back pain, and the TCPRC collaborated in a statewide project to accelerate individualised persistent pain education (Hannah Kennedy, Gold Coast Interdisciplinary Persistent Pain Management Service).

Seeding outputs for the coming years, Nathalie Collins (RBWH Occupational Therapy Dept) commenced her PhD, with Associate Professor Gray and Dr Claus supervising, for co-development of care in pelvic exenteration, and the NHMRC-NIHR FORENSIC study (UQ STARS Education and Research Alliance) to compare spinal fusion versus conservative management with lumbar disc degeneration achieved final approvals for commencement.

Research Grants

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Rowan Hill, Michelle Cottrell, Patrick Swete Kelly, Nicole Andrews, David Ireland, Peter Window	Physiotherapy, Occupational Therapy , The Tess Cramond Pain and Research Centre	How reliable are pain drawings of patients referred to a tertiary spinal service for low back pain?	RBWH Physiotherapy Project Grants	\$14,983	2 years 2025-2026
Nicole Andrews, Paul Gray, Joseph Parmenter, David Ireland, Trevor Russell, Jenny Strong, Adam La Caze, Jason Ferris	Occupational Therapy, The Tess Cramond Pain and Research Centre	A mHealth assisted allied health intervention to support people with chronic pain during opioid tapering: a pilot randomised controlled trial.	RBWH Foundation SERTA Grant	\$74,998	2 years 2024-2025
Jane Nikles, Nicholas Aitcheson, Rebecca Madden, Stefan Konigorski, Nancy Sturman, Michele Sterling, Peter Worthy, Suzanne McDonald, Nicole Andrews, Libby Lake, Christos Papadopoulos, Kevin Conway	Occupational Therapy, The Tess Cramond Pain and Research Centre	Personalising non-pharmacological management of chronic non-cancer pain.	Metro South Health Research Support Scheme	\$125,000	2 years 2024-2025
Nathalie Collins, Pip Logan, Andrew Claus, Chloe Bryant, Paul Gray, Craig Harris	Occupational Therapy, Tess Cramond Pain and Research Centre	Patient reported outcome measures following pelvic exenteration surgery at the Royal Brisbane and Women's Hospital.	2025 RBWH Research Fellowship Grant, research higher degree scholarship.	\$120,000	3 years 2026-2028
Jane Nikles Nicholas Aitcheson, Rebecca Madden, Stefan Konigorski, Nancy Sturman, Michele Sterling, Peter Worthy, Suzanne McDonald, Nicole Andrews, Libby Lake, Christos Papadopoulos, Kevin Conway	Occupational Therapy, Tess Cramond Pain and Research Centre	Personalising non-pharmacological management of chronic non-cancer pain	SERTA, Metro South Health Research Support Scheme	\$125 000	2 years 2024-2025
Peter Window, Trevor Russell, Daniel Harvie, Michel Coppieters, Nicole Andrews, Jean Spinks, Natalie Barthel	Physiotherapy, Tess Cramond Pain and Research Centre	Cognitive behavioural therapy-informed virtual reality in persistent low back pain: a feasibility randomised controlled trial	RBWH Foundation Grant	\$49,961	2 years 2024-2025
Hannah Kennedy, Darren Doherty, Bede Ashley, James Kurtz, Andrew Claus, Niamh Jensen, Louise Gustafsson, Daniel Harvie, Michel Coppieters	Tess Cramond Pain and Research Centre	Implementation of a clinician-led, immersive pain education program using Virtual Reality: a state-wide evaluation.	Queensland Technology Futures Fund, Queensland Health.	\$398,000	2 years 2025-2026

Investigator Names	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Kerstin Wyssusek, Paul Gray, Christine Woods, Anita Pelecanos, Julie Lee, Michelle Spanevello	Anaesthesia and Perioperative Medicine	Intravenous iron infusion therapy in chronic pain patients with iron deficiency: VITAL, a randomised controlled trial	Pharmacosmos	\$79,860	4 years 2023-2026
Nadine Foster, Nathalia Costa, Thorbjorn Loch-Wilkinson, Shaun O'Leary, Gregory Cunningham, Mark Chatfield, Tracey Comans, Paul Hodges, Paul Gray, Maree Raymer, Patrick Swete Kelly, David Beard, Sashin Ahuja, Andrew Claus	Neurosurgery Department, Physiotherapy Department, Tess Cramond Pain and Research Centre	The clinical and cost-effectiveness of lumbar fusion surgery for patients with persistent, severe low back pain: FusiOn veRsus bEst coNServative Care (the FORENSIC-Australia trial)	NHMRC-NIHR Collaborative Research Grant Scheme	\$2,373,198	5 years Aug 2023 – July 2028

RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Nicole Andrews	Andrew Claus, Riley O'Donohue, Megan Murdoch , Hang Ding, Atiyeh Vaezipour, Paul Gray , Trevor Russell	Onsite hospital-based pain management programs: understanding and improving uptake and adherence rates.	Involvement	N/A
Nicole Andrews	Olivia Zheng, Jodie Ross , Venerina Johnston, Elise Gane, Esther Smits, Charlotte Brakenridge, Paul Gray, Michael Rudd	An investigation of the prevalence, impact, and management of chronic pain post trauma at a tertiary public hospital.	Consulting	N/A
Nicole Andrews	David Ireland, Marlien Varnfield, Cate Sinclair, Michael Deen, Kathleen Cooke, Helen Rowe, Atiyeh Vaezipour, Esther Smits	Is app gamification effective in increasing consumer engagement and satisfaction? An evaluation of gamification for a chronic pain monitoring app.	Involvement	N/A
Nicole Andrews	Fatima Amershi, Riley O'Donohue, Andrew Claus, Paul Gray , Trevor Russell, Joshua Simmich, Anton Pak	Enhancing the management of chronic pain: a new eHealth model to extend onsite care and benefits back to the community.	Involvement	N/A
Nicole Andrews	Caitlin Hamilton, Liz Lush, Jenny Strong, Peter Irving, Michelle Oliver, Sophie Doyle	Barriers to Occupational Therapists Specialising in the Psychosocial Management of Persistent Pain within the Private Sector.	Involvement	N/A
Nicole Andrews	David Ireland, Andrew Claus , Elizabeth Hay, Lyza Burvill, Jenny Strong, Daria Westerman, Mikaela Schlumpf, Tania Rose, Pranieve Vijayakumar.	Acceptability of a pain history and pain education chatbot across different age groups: designing and pilot testing the Dolores mobile app	Involvement	N/A
Nicole Andrews	Robert Cuthbert, Hannah Gullo, Sudong Kim, Trevor Russell	Predicting the Therapeutic Value, Adherence and Adoption Intention of Virtual Reality Using Sensory Testing and Profiling.	Consulting	N/A

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Nicole Andrews	Joseph Parmenter, Michael Garrett, Thanh Pham , Joshua Simmich, Andrew Claus , David Ireland, Jenny Strong, Adam La Craze, Jason Ferris, Paul Gray , Trevor Russell	Investigating the effect of a mHealth assisted allied health opioid tapering intervention on daily opioid use for chronic pain: the MOTION-Pilot randomised controlled trial.	Partnership	28
Andrew Claus	Emma Ballard, Lillian Nelson , Ao Yang Chen, Kai Woodfall, Paul Gray, Conrad Engelbrecht, Zoe Vella, David Gore	A retrospective study to explore profiles, intravenous lidocaine infusions and outcomes.	Not Applicable	96
Paul Gray	Carmel Nelson, Mary Martin, Jenny Setchell, Andrew Claus, Jenny Strong , Alison Nelson, Sarah Duke, Maddison Gear, Sophia Mann, Antoinette White, Lia McIlroy, Jenaya Emzin, Jo Setter, Jane Harpham, Caroline Zanussi	SPANning the gap in pain management: A process evaluation of the establishment of a community-based, co-designed Specialised Pain Assistance Network's service, to improve persistent pain care for Aboriginal and Torres Strait Islander people.	Consumer yarning circles	50

Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Scott Farrell	Paul Gray , Michele Sterling, Peter Cabot, Andrew Claus , Annina Schmid, Genesta Nicolson, Kevin Chu	Development of small nerve fibre pathology in chronic whiplash associated disorder.	N/A	30
Kerstin Wyssusek	Paul Gray, Christine Woods, Julie Lee, Anita Pelecanos , Greg Anderson	VITAL: The efficacy of IntraVenous Iron Therapy in persistent pAin patients with iron deficiency: a randomised controlled trial	Involvement	16
Nathalie Collins	Pip Logan, Andrew Claus , Chloe Bryant, Paul Gray, Craig Harris and consumers David Newton, Georgina Brom	Patient reported outcome measures following pelvic exenteration surgery at the Royal Brisbane and Women's Hospital.	Partnership	0
Genevieve Donohue	Nicole Andrews , Pamela Meredith, Jenny Strong, Laura Page	The association between spousal reactions to chronic pain and pain-related patient outcomes: a systematic review	Consultation	N/A
Genevieve Donohue	Nicole Andrews , Pamela Meredith, Jenny Strong, Miriam Dillon	An exploration of the relational and support needs of people experiencing persistent pain from their partner using interpretative phenomenological analysis.	Involvement	N/A
Charlotte Brackenridge	Venerina Johnston, Michelle Smith, Sjaan Gomersall, Nicole Andrews , Trevor Russell	Identifying optimal sit-stand recommendations for the workforce	Consultation	N/A

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Consumer involvement	Number of RBWH Patients Recruited
Peter Window	Trevor Russell, Daniel Harvey, Michel Coppieters, Nicole Andrews , Jean Spinks, Natalie Barthel	Cognitive-behavioural therapy-informed virtual reality in persistent low back pain: a feasibility randomised controlled trial.	Consumer-Led	15

Research Activity with a Specific Focus on Aboriginal and Torres Strait Islander Peoples

Lead Investigator Name (RBWH staff and consumers in bold)	Other Study Investigators (RBWH staff and consumers in bold)	Research Project Title	Number of RBWH Patients Recruited
Paul Gray	Carmel Nelson, Mary Martin, Jenny Setchell, Andrew Claus , Jenny Strong , Alison Nelson, Sarah Duke, Maddison Gear, Sophia Mann, Antoinette White, Lia McIlroy, Jenaya Emzin, Jo Setter, Jane Harpham , Caroline Zanussi	SPANning the gap in pain management: A process evaluation of the establishment of a community-based, co-designed Specialised Pain Assistance Network's service, to improve persistent pain care for Aboriginal and Torres Strait Islander people.	50

Research Publications

Authors

Investigator	ORCID ID
Dr Nicole Andrews	https://orcid.org/0000-0002-7739-1738
Dr Andrew Claus	https://orcid.org/0000-0003-4030-9697
Associate Professor Paul Gray	https://orcid.org/0000-0002-1369-1483

Publications in 2025

Journal Articles (RBWH staff or consumers in bold)

Elphinston RA, Pager S, Fatehi F, Sterling M, Brown K, **Gray P**, Hipper L, Cahill L, Ziadni M, Worthy P, Connor JP. Applying patient and health professional preferences as part of co-designing a new digital brief intervention to reduce risk of prescription opioid harm: a qualitative analysis. JMIR Form Res. 2025;9:e57212. doi:10.2196/57212.

Elphinston RA, Pager S, Brown K, Sterling M, Fatehi F, **Gray P**, Hipper L, Cahill L, Connor JP. Co-designing a digital brief intervention to reduce the risk of prescription opioid-related harm among people with chronic noncancer pain: qualitative analysis of patient lived experiences. JMIR Form Res. 2025;9:e57208. doi:10.2196/57208.

Ekberg S, Meuter RFI, Lin I, Rowen R, Kinnell A, Malacova E, Waring T, Houkamau K, Taylor M, Bryant M, Isua J, **Claus A**, **Gray P**, Kluver J, Bernardes CM, Pratt G. Observed and reported outcomes following experiential cultural capability and clinical yarning training for clinicians treating Aboriginal and Torres Strait Islander people with persistent pain. J Aust Indigenous HealthInfoNet. 2025;6(1):2. doi:10.14221/2653-3219.1047.

Hay E, Ireland D, **Claus A**, Rose T, Strong J, Westerman D, Schlumpf M, Vijayakumar P, Burvill L, **Andrews N**. Uncovering age-related differences in communication by people with persistent pain when interacting with a pain history assessment chatbot in Australia: an exploratory mixed-methods study using a comparative analysis. BMJ Open 2025 Dec 10;15(12):e104984. doi: 10.1136/bmjopen-2025-104984.

Keynote or Plenary Lectures given in 2025

Date	Title
15/4/2025	National conference session chair: At the Australian Pain Society 45 th annual scientific meeting in Melbourne, Associate Professor Paul Gray was the session chair for the 90min topical session titled "Proa pain services by and for Aboriginal and Torres Strait Islanders, for access that is sooner, closer, cheaper and culturally safe."