



2022

# RBWH Research Report

RESEARCH SERVICES

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# The Centre for Palliative Care Research and Education



**Professor Patsy Yates**  
**Director**  
**Centre for Palliative Care Research and Education**

The primary role of the Centre for Palliative Care Research and Education (CPCRE) is to enhance palliative care services in Queensland through research and education endeavours. To achieve these aims, CPCRE operates as a 'centre without walls', committed to building and fostering partnerships with the palliative care community in its endeavours.

## **Highlights of 2022:**

Medicinal Cannabis research program update. Following the receipt of two MRFF grants, Prof Janet Hardy and colleagues have run a series of randomised controlled trials in an attempt to determine whether medicinal cannabis (MC) has a role in the symptom management of patients with advanced cancer. The trials have been run across 5 metropolitan hospitals in South East Queensland: Royal Brisbane and Women's Hospital, Princess Alexandra Hospital, Gold Coast University Hospital, St Vincent's Private Hospital Brisbane and the Mater Adult Public Hospital. The first trial of cannabidiol (CBD) oil vs placebo has shown that CBD does not provide any extra symptom benefit over and above that provided by palliative care alone (Journal of Clinical Oncology, Nov 2022). The second trial of a 1:1 CBD/THC product is near completion. In a third study of a 1:20 THC/CBD product we will work with Telehealth Research to offer trial participation in rural and remote areas of Queensland.

CPCRE staff have continued collaborative research projects in 2022. Research projects are multi-disciplinary and are across institutions (within Queensland and across Australia), and results have been published in national and international peer reviewed publications. CPCRE staff hold appointments on state, national and international Palliative Care/Oncological & Nursing and Medical advisory boards/reference groups.

CPCRE education activities include: the General Practice Palliative Care Education Program; the Program of Experience in the Palliative Approach; the Evidence Based Palliative Care Strategy; the Queensland Palliative Care Research Group & Workforce Development Programs. The Centre disseminates palliative care education and research information to health professionals via: the CPCRE Website, CPCRE Newsletter (quarterly), CPCRE Calendar (biannually), CPCRE E-Bulletins (bimonthly), the Annual Research Conference & the Annual Update Symposium (topic rotates 3 yearly between general medicine, oncology and supportive care); the Master Class Series and the Annual Nurse Practitioner Symposium.

## **Benefits for clinical practice:**

The Centre's work focuses on:

- Developing the capacity of the palliative care workforce to provide quality palliative care
- Improving the links between research and practice in palliative care
- Undertaking research to enhance the quality of palliative care
- Providing information which supports the delivery of palliative care services

## Successful PhD candidates in 2022

Name	PhD Title	Month Completed	Affiliated University	Summary
Porawan Witwaranukool	The effects of an educational intervention on exercise advice behaviours of Thai oncology nurses	March 2022	PhD, QUT (2017-2022), <b>Patsy Yates</b> , Ray Chan	This thesis evaluated the impact of an educational intervention based on the Theory of Planned Behaviour that was designed to encourage oncology nurses in Thailand to provide exercise advice to cancer survivors. Following the intervention, a significant improvement was identified in the extent to which oncology nurses engaged in exercise advice behaviours. The study adds to knowledge about the importance of addressing attitudes and perceived behavioural control in relation to exercise advice behaviours when designing educational interventions to improve health promotion activities for cancer survivorship.
Cheryl Blaber	Nursing discernment and response to suffering at the end of life in acute care: a grounded theory study	September 2022	PhD, QUT (2019-2022), <b>Patsy Yates</b> , Jennifer Fox, Theresa Green, John Rosenberg	This study explored patient suffering in acute care as experienced by those caring for them. Being present at the end of life can challenge nurses, who face the multifaceted nature of non-physical suffering. Using symbolic interactionism as theoretical framework within a constructivist grounded theory methodology, nursing discernment and response to suffering were contextualised and interpreted. This generated new theoretical understanding not only of suffering, but how the treatment-orientated paradigm impacts nursing's identity and voice. Further analysis resulted in the theory of <i>dying denied</i> . Nursing identity and dying denied are interrelated, and a model of reciprocal compassion is proposed.
Alana Delaforce	One size does not fit all: the development, and execution of, tailored implementation approaches to improve evidence based blood management	December 2022	PhD, University of Newcastle (2018-2022), Jed Duff, Judy Munday, <b>Janet Hardy</b>	A knowledge translation project aimed at improving the uptake of recommended patient blood management practices in Australia. The project was conducted in four phases using multiple methods including medical chart audits, a systematic review, semi-structured interviews, and an observational study.

## Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
<b>Eg. Adrienne Harris</b>	2022 Royal Alumni Research Encouragement Award	2022 RBWH and RBWH Foundation Grant Awards Ceremony
Bowers, A., Herbert, A., Chan, R. & <b>Yates, P.</b>	Vivien Bullwinkel Award – Best Abstract. Planning for paediatric palliative care: Using epidemiological data.	Palliative Care Nurses Australia (PCNA) Conference, virtual, 3 <sup>rd</sup> May 2022
<b>Yates, P.</b>	Elected as a Fellow of the Australian Academy of Health and Medical Sciences	2022 Annual Meeting of the Australian Academy of Health and Medical Sciences, 13 <sup>th</sup> October 2022
<b>Hardy, J.</b>	2022 Mater Research Publication Award - Clinical	Mater Research Annual Awards, 6 <sup>th</sup> December 2022

## 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
Danby, S., Ekberg, S., Rendle-Short, J., <b>Yates, P.</b> , Herbert, A., Bradford, N., Bluebond-Langner, M.	Centre for Palliative Care Research and Education	Extraordinary yet mundane talk: children navigating palliative care	Australian Research Council Discovery Grant (DP180101941)	\$614,282	5yrs, 2018-2022
Bradford, N., Ekberg, S., Brain, D., <b>Yates, P.</b> , & Hassall, T.	Centre for Palliative Care Research and Education	Childhood brain cancer survivorship and palliative care effects on family functioning (CASPER)	Children's Health Foundation Queensland	\$400,056	6yrs, 2020-2025
Beesley, V., Neale, R., Turner, J., <b>Yates, P.</b> , Wyld, D., Chan, R. & Gordon, L.	Centre for Palliative Care Research and Education	PRoCESS: Pancreatic cancer Relatives Counselling and Education Support Service trial	National Health and Medical Research Council, Medical Research Future Fund	\$801,229	4yrs, 2020-2023
Willmott, L., White, B. & <b>Yates, P.</b>	Centre for Palliative Care Research and Education	Services to develop and provide online voluntary assisted dying participating practitioner training	Department of Health (WA)	\$996,165	4yrs, 2020-2023
Chan, R., <b>Yates, P.</b> , Emery, J., Koczwara, B., Mann, G., Eakin, E., Turner, M., Krishnasamy, M., Gordon, L., Skerman, H.	Centre for Palliative Care Research and Education	Implementation of a nurse-enabled, shared-care follow-up model for early Breast cancer survivorS (The IBIS-Survivorship Study)	National Health and Medical Research Council (APP1170519)	\$1,490,635	5yrs, 2021-2025
Chan, R., Emery, J., <b>Yates, P.</b> , Dunn, J.C., Hart, N., Koczwara, B., Gordon, L., Jefford, M., Vela, I., Jones, L., Davis, I., Sengupta, S., Ee, C., Halcomb, E., Rhee, J., Sara, S., Hemming, K., Pryor, D., Shub, M & Raupach, A.	Centre for Palliative Care Research and Education	A Hybrid, Implementation-Effectiveness Trial of a Nurse-Enabled, Shared-Care Model Between Primary and Acute Care for proStatE Cancer Survivors (The MOSES Trial)	National Health and Medical Research Council MRFF (MRF2006113)	\$1,667,960	4yrs, 2021-2024
Zhao, I., <b>Yates, P.</b> , Liu, W.-H. & Polotan, M.	Centre for Palliative Care Research and Education	The Effect of Practice Nurse Coordinated Home Care Package Administration Model for Cancer Patients: A Pilot Randomised Controlled Trial	Rosemary Bryant Foundation	\$9,091	1yr, 2021-2022
<b>Yates, P.</b> , Rego, J., Ash, K.	Centre for Palliative Care Research and Education	Paediatric Palliative Education Curricular	Children's Health Queensland Hospital and Health Service	\$51,449	1yr, 2022-2023

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
Virdun, C., Matthews, R., Mudge, A.M., <b>Yates, P.</b> , Singh, G., Phillips, J., Carter, H.	Centre for Palliative Care Research and Education	Improving the quality of hospital care for people with serious illness through patient experience measurement and feedback informing facilitated ward-based improvement: an implementation pilot study (The PREM-QUAL study)	Metro North Hospital and Health Service	\$24,696	3yrs, 2022-2024
Webb, P., Chan, R., Brown, B., Wyld, D., Gordon, L.G., Hartel, G. Eastgate, M.A., Wishart, L., Nund, R., <b>Yates, P.</b>	Centre for Palliative Care Research and Education	PROMISE: Patient-Reported Outcome Measures in cancer care: a hybrid effectiveness-Implementation trial to optimise Symptom control and health service Experience	Cancer Council Queensland – Accelerating Collaborative Cancer Research Grants	\$196,625	3yrs, 2021-2023
<b>Hardy, J.</b> , Good, P., Lintzeris, N., Martin, J., <b>Yates, P.</b> , Chye, R., Haywood, A., Olsen, R.	Centre for Palliative Care Research and Education	Medicinal cannabinoids to relieve symptom burden in the palliative care of patients with advanced cancer (MedCan 1)	The Commonwealth of Australia, Department of Health MRFF (APP1152232 )	\$1,363,040	6yrs, 2018-2023
Good, P., <b>Hardy, J.</b> , Haywood, A., Olson, R., Greer, R., Philip, J., <b>Yates, P.</b> & Mendis, R.	Centre for Palliative Care Research and Education	Medicinal Cannabis (MedCan 3) – randomised, multicentre, double blind, placebo-controlled trial to assess THC/CBD (1:20) to relieve symptom burden in patients with cancer	National Health and Medical Research Council MRFF (APP2006191)	\$1,526,796	5yrs, 2021-2025
<b>Yates, P.</b>	Centre for Palliative Care Research and Education	Optimising palliative care services to deliver better value health care for older persons	National Health and Medical Research Council Investigator Grant (APP2009529)	\$1,500,000	6yrs, 2021-2026
Hudson, P., Philip, J., Francis, J., De Abreu Lourenco, R., Juraskova, I., Gray, K., Jefford, M., Kapp, S., Coher, J., Al's: Phillips, J., <b>Yates, P.</b> , Athan, S., Brown, L., De Vleminck, A., Chang, S., Thomas, K.	Centre for Palliative Care Research and Education	Improving the wellbeing of people with advanced cancer and their family carers: An effectiveness-implementation trial of an Australian dyadic digital health intervention (FOCUSau).	National Health and Medical Research Council TCR into End-of-Life Care (APP2006170)	\$1,095,278	5yrs, 2021-2025
<b>Hardy, J.</b> , Good, P.	Centre for Palliative Care Research and Education	Data Management Grant	Cancer Council Queensland	\$88,000	2022 (reviewed yearly)
Gurgenci, T., <b>Hardy, J.</b>	Centre for Palliative Care Research and Education	Medicinal cannabis inflammation and symptoms in advanced cancer	2022 TRI LINC Scheme grant	\$49,988	5yrs, 2022-2026

## Current RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Yates, P.</b>	<b>Yates, P.</b> , Alexander, K., Miaskowski, C., Chan, R., McCarthy, A., McPhail, S., Wyld, D., Skerman, H.	A sequential multiple assignment randomized trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy	32
<b>Hardy, J.</b>	<b>Hardy, J.</b> , Good., P., Lintzeris, N., Martin, J., <b>Yates, P.</b> , Chye, R., Haywood, A., Olsen, R.	Oral Medicinal Cannabinoids to Relieve Symptom Burden in the Palliative Care of Patients with Advanced Cancer: a double-blind, placebo controlled, randomised clinical trial of efficacy and safety of Cannabidiol (CBD)	0
<b>Hardy, J.</b>	<b>Hardy, J.</b> , Good., P., Lintzeris, N., Martin, J., <b>Yates, P.</b> , Chye, R., Haywood, A., Olsen, R.	Oral Medicinal Cannabinoids to Relieve Symptom Burden in the Palliative Care of Patients with Advanced Cancer: a double-blind, placebo controlled, randomised clinical trial of efficacy and safety of 1:1 delta-9-tetrahydrocannabinol (THC) and Cannabidiol	4
<b>Hardy, J.</b>	<b>Hardy, J.</b> , Good, P., Huggett, G.	Exploratory analysis of post-trial use of medicinal cannabis	0
Clarke, S., Good, P., <b>Hardy, J.</b>	Clarke, S., Good, P., <b>Hardy, J.</b> , Thomson, A., Hicks, J., McLachlan, A., Henson, J., Vitetta, L.	NanaBis An Oro-Buccal Administered Equimolar THC and CBD formulation as Monotherapy for the Management of Opioid-Requiring Chronic Pain – Due to Metastatic Bone Cancer: A Phase 3 Multi-Centre, Double-Blind, Randomised-Withdrawal Active and Placebo-Controlled Clinical Study	0

## Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Danby, S.	Danby, S., Ekberg, S., Rendle-Short, J., <b>Yates, P.</b> , Herbert, A., Bradford, N., Bluebond-Langer, M.	Extraordinary yet mundane talk: children navigating palliative care	0
Bradford, N.	Bradford, N., <b>Yates, P.</b> , Chan, R., & Tjondronegoro, D.	RESPONse: Remote Symptom Management in Paediatric Oncology	0
Beesley, V.	Beesley, V., Neale, R.E, Turner, M., <b>Yates, P.</b> , Wyld, D., Chan, R. & Gordon, L.G.	PRoCESS: Pancreatic cancer relatives counselling and education support service trial. Assessing the effect of nurse-led counselling on participant-reported outcomes and use of medical services	0
Juraskova, I.	Juraskova, I., Butow, P., Laidsaar-Powell, R., Boyle, F., <b>Yates, P.</b> , Schofield, P., Kay, J. & Costa, D.	Empowering the clinician-patient-carer TRIO: RCT of novel online education modules to facilitate effective family carer involvement in oncology	0
Good, P.	Good, P., <b>Hardy, J.</b> , Haywood, A., Olsen, R., Greer, R., Philip, J., <b>Yates, P.</b> , Mendis, R., Gurgenci, T.	Medicinal Cannabis (MedCan 3) – randomised, multicentre, double-blind, placebo-controlled trial to assess THC/CBD (1:20) to relieve symptom burden in patients with cancer	0
Good, P.	Good, P., <b>Hardy, J.</b> , Philip, J., Weil, J., Crawford, G., McNeil, R., <b>Yates, P.</b>	A randomised, controlled study of oral olanzapine versus oral haloperidol in patients with cancer and nausea not related to anticancer therapy (Nausea study 4 pilot)	0

# Research Publications

## Authors

Investigator	ORCID ID
Patsy Yates	<a href="https://orcid.org/0000-0001-8946-8504">https://orcid.org/0000-0001-8946-8504</a>
Janet Hardy	<a href="https://orcid.org/0000-0003-1127-9951">https://orcid.org/0000-0003-1127-9951</a>

## Publications in 2022

### Journal Articles (RBWH staff in bold)

Fox, A., Joseph, R., Cardiff, L., Thoms, D., **Yates, P.**, Nissen, L. & Chan, R.J. Evidence-informed implementation of nurse prescribing under supervision: An integrative review. *Journal of Advanced Nursing*, (2022), 78:301-313.

Sellars, M., White, B.P., **Yates, P.** & Willmott, L. Medical practitioners' views and experiences of being involved in assisted dying in Victoria, Australia: A qualitative interview study among participating doctors. *Social Science & Medicine*, (2022), 292:114568.

**Yates, P.**, Carter, R., Cockerell, R., Cowan, D., Dixon, C., Lal, A., Newton, R.U., Hart, N., Galvão, D.A., Baguley, B., Denniston, N., Skinner, T., Couper, J., Emery, J., Frydenberg, M. & Liu, W.-H. Evaluating a multicomponent survivorship programme for men with prostate cancer in Australia: a single cohort study. *BMJ Open*, (2022), e049802.

Gerber, K., Willmott, L., White, B., **Yates, P.**, Mitchell, G., Currow, D.C. & Piper, D. Barriers to adequate pain and symptom relief at the end of life: A qualitative study capturing nurses' perspectives. *Collegian*, (2022), 29(1), 1-8.

Ekberg, K., Ekberg, S., Weinglass, L., Herbert, A., Rendle-Short, J., Bluebond-Langner, M., **Yates, P.**, Bradford, N. & Danby, S. Attending to child agency in paediatric palliative care consultations: Adults' use of tag questions directed to the child. *Sociology of Health & Illness*, (2022), 44(3), 566-585.

Cohen, P.A., Webb, P.M., King, M., Obermair, A., Gebiski, V., Butow, P., Morton, R., Lawson, W., **Yates, P.**, Campbell, R., Meniawy, T., McMullen, M., Dean, A., Goh, J., McNally, O., Mileshekin, L., Beale, P., Beach, R., Hill, J., Dixon, C., Hegarty, S., Codde, J., Ives, A., Lee, Y.C., Brand, A., Mellon, A., Bilic, S., Black, I., Jeffares, S. & Friedlander, M. Getting the MOST out of follow-up: a randomized controlled trial comparing 3 monthly nurse led follow-up via telehealth, including monitoring CA125 and patient reported outcomes using the MOST (Measure of Ovarian Symptoms and Treatment concerns) with routine clinic based or telehealth follow-up, after completion of first line chemotherapy in patients with epithelial ovarian cancer. *International Journal of Gynecologic Cancer*, (2022), 32(4), 560-565.

Zheng, J., Sampurno, F., George, D.J., Morgans, A.K., Nguyen, H., Abrahm, J.L., Bjartell, A., Davis, I.D., Fitch, M.I., Gillessen, S., Kanesvaran, R., Matthew, A., Millar, J.L., O'Sullivan, J.M., Payne, H., Pouliot, F., **Yates, P.** & Evans, S.M. Establishing metastatic prostate cancer quality indicators using a modified Delphi approach. *Clinical Genitourinary Cancer*, (2022), 20(2), e151-e157.

Willmott, L., White, B., Feeney, R., Chambaere, K., **Yates, P.**, Mitchell, G. & Piper, D. Collecting data on end-of-life decision-making: Questionnaire translation, adaptation and validity assessment. *Progress in Palliative Care*, (2022), 30(2), 83-93.

Cheyne, S., Lindley, R.I., Smallwood, N., Tendal, B., Chapman, M., Navarro, D.F., Good, P.D., Jenkin, P., McDonald, S., Morgan, D., Murano, M., Millard, T., Naganathan, V., Srikanth, V., Tuffin, P., Vogel, J., White, H., Chakraborty, S.P., Whiting, E., William, L., **Yates, P.M.**, Callary, M., Elliott, J. and Agar, M.R. for the National COVID-19 Clinical Evidence Taskforce. Care of older people and people requiring palliative care with COVID-19: guidance from the Australian National COVID-19 Clinical Evidence Taskforce. *Medical Journal of Australia*, (2022), 216(4), 203-208.

Chan, R.J., Agbejule, O.A., **Yates, P.M.**, Emery, J., Jefford, M., Koczwara, B., Hart, N.H., Crichton, M. & Nekhlyudov, L. Outcomes of cancer survivorship education and training for primary care providers: a systematic review. *Journal of Cancer Survivorship*, (2022), 16(2), 279-302.

Akuoko, C.P., Chambers, S. & **Yates, P.** Supportive care needs of women with advanced breast cancer in Ghana. *European Journal of Oncology Nursing*, (2022), 58:102142.

Hughes, J., Alexander, K.E., Spencer, L. & **Yates, P.** Factors associated with the experience of patients presenting in pain to the emergency department. *Journal of Clinical Nursing*, (2022), 31(9-10), 1273-1284.



- Whyte, S., Rego, J., Chan, H.F., Chan, R.J. & **Yates, P.** Cognitive and behavioural bias in advance care planning. *Palliative Care & Social Practice*, (2022), 16, 1-26.
- Fox, J., Thamm, C., Mitchell, G., Emery, J., Rhee, J., Hart, N.H., **Yates, P.**, Jefford, M., Koczwara, B., Halcomb, E., Steinhardt, R., O'Reilly, R. & Chan, R.J. Cancer survivorship care and general practice: A qualitative study of roles of general practice team members in Australia. *Health and Social Care in the Community*, (2022), 30:e1415-e1426.
- Sellars, M., White, B., **Yates, P.** & Willmott, L. Knowledge of end-of-life law: A cross-sectional survey of general practitioners working in aged care. *Australasian Journal on Ageing*, (2022), 41(2), 265-273.
- Crichton, M., **Yates, P.M.**, Agbejule, O.A., Spooner, A., Chan, R.J. & Hart, N.H. Non-pharmacological self-management strategies for chemotherapy-induced peripheral neuropathy in people with advanced cancer: A systematic review and meta-analysis. *Nutrients*, (2022), 14(12), 2403.
- Ladwa, R., Pinkham, E.P., Teleni, L., Hanley, B., Lock, G., Nixon, J., Agbejule, O.A., Crawford-Williams, F., Jones, L., Pinkha, M.B., Turner, J., **Yates, P.**, McPhail, S.M., Aitken, J.F., Escalante, C.P., Hart, N.H. & Cha, R.J. Telehealth cancer-related fatigue clinic models for cancer survivors: a pilot randomized controlled trial protocol (the T-CRF trial). *BMJ Open*, (2022), 12(5), e059952.
- Willmott, L., Feeney, R., Del Villar, K., Chambaere, K., **Yates, P.**, Mitchell, G. & White, B. Assisted deaths prior to the Voluntary Assisted Dying Act 2017 (Vic): Would patients have met the eligibility criteria to request voluntary assisted dying? *Journal of Law & Medicine*, (2022), 29, 811-828.
- Button, E., Cardona, M., Huntley, K., Gavin, N.C., LeBlanc, T.W., Olsen, A., Smith, M. & **Yates, P.** Clinicians' understanding of preferences and values of people with hematological malignancies at the end of life: Concurrent surveys. *Journal of Palliative Medicine*, (2022), 25(9), 1386-1397.
- Fish, J.A., Rickard, C.M., Gray, R., Middleton, S., Homer, C., Keogh, S., Leslie, G., Neme, F., Neville, S., Sharplin, G., Whitehead, L., **Yates, P.** & Eckert, M. Nurse- and midwife-led trials in Australia and New Zealand: Scoping review protocol. *Collegian*, (2022), 29(5), 793-798.
- Akuoko, C.P., Chambers, S. & **Yates, P.** Healthcare providers' perspectives of the supportive care needs of women with advanced breast cancer in Ghana. *BMC Women's Health*, (2022), 22:350.
- Bowers, A.P., Bradford, N., Chan, R.J., Herbert, A. & **Yates, P.** Analysis of health administration data to inform health service planning for paediatric palliative care. *BMJ Supportive & Palliative Care*, (2022), 12, e671-e679.
- Fox, A., Crawford-Williams, F., Joseph, R., Cardiff, L., Thoms, D., **Yates, P.**, Nissen, L. & Chan, R.J. Is the Australian nursing workforce ready to embrace prescribing under supervision? A cross-sectional survey. *Journal of Advanced Nursing*, (2022), 78(12), 4082-4091.
- Lord, S., **Hardy, J.**, Good, P. Does Cannabidiol have a benefit as a supportive care drug in cancer? *Current Treatment Options in Oncology*, (2022), 1-12.
- Gunawen, B., Foster, K., **Hardy, J.**, Good, P. Survival following palliative percutaneous nephrostomy tube insertion in patients with malignant ureteric obstruction: Validating a prognostic model. *Progress in Palliative Care*, (2022), 30, Issue 1: 21-28. Published online 23 April 2021. DOI: 10.1080/09699260.2021.1905145
- Ozberk, D., Haywood, A., Sutherland, H.G., Yu, C., Albury, C.L., Zunk, M., George, R., Good, P., Griffiths, L.R., **Hardy, J.**, Haupt, L.M. Association of polymorphisms in ARRB2 (B-Arrestin2) and clinical response to methadone for pain in advanced cancer. *Pharmacogenomics*, (2022), Apr, 23(5), 281-289. Epub ahead of print 22 Feb 2022. <https://doi.org/10.2217/pgs-2021-0139>
- Wan Bahrum, W.F.I.B., **Hardy, J.**, Foster, K., Good, P. An open label pilot study of oral water-soluble contrast (Gastrografin) in addition to conservative medical management for the resolution of malignant bowel obstruction in adult patients. *BMJ Supportive Palliative Care*, Epub ahead of print Jan 2022, DOI:10.1136/bmjspcare-2021-003444
- Ozberk, D., Haywood, A., Sutherland, H.G., Yu, C., Albury, C.L., Zunk, M., George, R., Good, P., Griffiths, L.R., **Hardy, J.**, Haupt, L.M. Association of KCNJ6 rs2070995 and methadone response for pain management in advanced cancer at end-of-life. *Scientific Reports*, 2022, Oct 19;12(1):17422. DOI: 10.1038/s41598-022-21180-w. PMID: 36261449; PMCID: PMC9582209.
- Gurgenci, T., **Hardy, J.**, Good, P. State of the Science: research agenda for medical cannabis in palliative care. *BMJ Supportive and Palliative Care*, (2022), 12, 299-301.
- Gurgenci, T., **Hardy, J.**, Good, P. Controversies in the management of cancer pain. *Pain Management Today*, (2022), 9(1), 67-70.
- Olson, R.E., Smith, A., Huggett, G., Good, P., Dudley, M., **Hardy, J.** Using a qualitative sub-study to inform the design and delivery of randomised controlled trials on medicinal cannabis for symptom relief in patients with advanced cancer. *Trials* 23, (2022), 23:752 <https://DOI.org/10.1186/s13063-022-06691-1>

Gurgenci, T., **Hardy, J.**, Olson, R., Huggett, G., Foster, K., Good, P. Medicinal cannabis in palliative medicine: lessons learnt from randomised controlled trials. *BMJ Supportive & Palliative Care*, Epub 15 Nov, (2022), DOI:10.1136/ spcare-2022-004035

**Hardy, J.**, Greer, R., Huggett, G., Kearney, A., Gurgenci, T., Good, P. Phase IIb Randomized, Placebo-Controlled, Dose-Escalating, Double-Blind Study of Cannabidiol Oil for the Relief of Symptoms in Advanced Cancer (MedCan1-CBD). *Journal of Clinical Oncology* Nov 2022. [ascopubs.org/journal/jco](https://ascopubs.org/journal/jco) on November 21, 2022: DOI <https://doi.org/10.1200/JCO.22.016321>

### Book Chapters (RBWH staff in bold)

**Yates, P.** (2022) Principles for nursing practice: Cancer. In Chang, E. & Johnson, A. *Living with chronic illness and disability: principles for nursing practice* (4<sup>th</sup> Ed.). Elsevier Australia: pp. 465-474.

## Keynote or Plenary Lectures given in 2022

Date	Title
	<b>Conference Presentations</b>
28/01/2022	<b>Yates, P.</b> Designing cancer survivorship interventions that improve outcomes for patients and health systems. New Zealand Society for Oncology Conference, Virtual, 28 <sup>th</sup> January 2022.
23/02/2022 – 25/02/2022	<b>Yates, P.</b> Innovative approaches to building global partnerships and cancer nursing leadership in low and middle income countries. International Conference on Cancer Nursing 2022, Virtual, 23 <sup>rd</sup> -25 <sup>th</sup> February 2022.
11/03/2022	<b>Yates, P.</b> Cancer survivorship and rehabilitation: Implications for older people. Australia-China Allied Health & Nursing Aged Care Symposium, Virtual, 11 <sup>th</sup> March 2022.
02/05/2022	Bowers, A., Herbert, A. & <b>Yates, P.</b> Evaluating the paediatric palliative care outreach collaborative. Palliative Care Nurses Australia (PCNA) Conference, Virtual, 2 <sup>nd</sup> May 2022.
03/05/2022	<b>Yates, P.</b> PA Nurse doing follow up study. Royal Australasian College of Surgeons Annual Scientific Conventions, Brisbane, 3 <sup>rd</sup> May 2022.
03/05/2022	Bowers, A., Herbert, A., Chan, R. & <b>Yates, P.</b> Planning for paediatric palliative care: Using epidemiological data. Palliative Care Nurses Australia (PCNA) Conference, Virtual, 3 <sup>rd</sup> May 2022.
03/05/2022	Bowers, A., Singh, G., Bradford, N., Ekberg, S., Dettrick, Z., Ekberg, K., Herbert, A., McLarty, A. <b>Yates, P.</b> The collection and analysis of health data to inform the paediatric palliative care national action plan. Palliative Care Nurses Australia (PCNA) Conference, Virtual, 3 <sup>rd</sup> May 2022.
04/05/2022	<b>Yates, P.</b> The future of palliative care nursing – the time is now. Palliative Care Nurses Australia (PCNA) Conference, Virtual, 4 <sup>th</sup> May 2022.
17/06/2022	Bradford, N., McMillan, A., Howlett, C., <b>Yates, P.</b> & Davidson, L. (Panellist) Cancer Nursing Workforce, CNSA 24 <sup>th</sup> Annual Congress 2022, Brisbane, 17 <sup>th</sup> June 2022
17/06/2022	Ogle, T., Alexander, K., <b>Yates, P.</b> , Miaskowski, C., Paul, S., Conley, Y.P., Schumacher, M., Levine, J.D. & Kober, K. Occurrence and Perceived Effectiveness of Activities Used to Decrease Chemotherapy-Induced Peripheral Neuropathy Symptoms in the Feet. CNSA 24 <sup>th</sup> Annual Congress 2022, Brisbane, 17 <sup>th</sup> June 2022.
28/08/2022 – 01/09/2022	McKittrick, A., Desselle, M., Holland, L., Kennedy, G., <b>Yates, P.</b> & Brown, J. A Wanderer's Tale – co-design of a virtual reality experience for pain and distress management in Australian burns patients. International Society for Burn Injuries Congress 2022, Guardalajara, Mexico, 28 <sup>th</sup> August-1 <sup>st</sup> September 2022.
14/10/2022	Ekberg, S., Edberg, K., Danby, S., Watts, J., Weinglass, L., Nelson, M., Cooke, R., Rendle-Short, J., Bluebond-Langner, M., Bradford, N., <b>Yates, P.</b> , Herbert, A., Ryan, S., Fleming, S., Delaney, A., Scully, M., Orr, A. & Duffield, J. Interacting with child patients: Analysis of video recorded paediatric palliative care consultations. Australian Paediatric Palliative Care Conference, Virtual, 14 <sup>th</sup> October 2022.

20/10/2022	<b>Yates, P.</b> (Session Chair) Building cancer nursing leadership capacity to achieve world cancer declaration targets. 2022 World Cancer Congress, Geneva, Switzerland, 20 <sup>th</sup> October 2022.
26/02/2022	Delaforce, A., Duff, J., Munday, J., <b>Hardy, J.</b> How to implement the gold standard of anaemia and iron deficiency screening for preoperative patients: using implementation science to identify barriers to practice and strategies to overcome them. ACORN 2022 Virtual Conference, Virtual, (oral presentation), 26 <sup>th</sup> February 2022.
04/06/2022 – 08/06/2022	Delaforce, A., Duff, J., Munday, J., <b>Hardy, J.</b> Identifying barriers to perioperative anaemia and iron deficiency screening and strategies to overcome: an example of using implementation science to help. International Society for Blood Transfusion (ISBT) Virtual Conference, Virtual, (oral presentation), 4 <sup>th</sup> – 8 <sup>th</sup> June 2022.
21/07/2022 – 25/07/2022	Delaforce, A., Duff, J., Munday, J., <b>Hardy, J.</b> Identifying Barriers to Perioperative Anaemia Screening and Strategies to Overcome: How Implementation Science Helps. Oral presentation at the Sigma International Nursing Conference, Edinburgh, Scotland, 21 <sup>st</sup> – 25 <sup>th</sup> July 2022.
01/09/2022 – 04/09/2022	<b>Hardy, J.</b> , Greer, R., Huggett, G., Kearney, A., Good, P. A randomised, double blind, placebo controlled trial of cannabidiol for relief of symptoms in advanced cancer. ANZSPM Biennial Conference 2022, Canberra, (oral presentation), 1 <sup>st</sup> – 4 <sup>th</sup> September 2022.
01/09/2022 – 04/09/2022	Gurgenci, T., <b>Hardy, J.</b> , Huggett, G., Good, P. Effect of cannabidiol on the inflammatory marker CRP in the patients undergoing palliative care: a randomised controlled trial. ANZSPM Biennial Conference 2022, Canberra, (oral presentation), 1 <sup>st</sup> – 4 <sup>th</sup> September 2022.
01/09/2022 – 04/09/2022	Nwachukwu, H., Good, P., Greer, R., Gurgenci, T., <b>Hardy, J.</b> Inflammation as a cause of symptom burden in patients with advanced cancer. ANZSPM Biennial Conference 2022, Canberra, (oral presentation), 1 <sup>st</sup> – 4 <sup>th</sup> September 2022.
06/10/2022 – 07/10/2022	<b>Hardy, J.</b> Medicinal cannabis: early trials backwards forwards. Translate 2022, Translational Research Institute, Brisbane, 6 <sup>th</sup> – 7 <sup>th</sup> October 2022
28/10/2022	<b>Hardy, J.</b> Medicinal Cannabis for symptoms control in advanced cancer. CPCRE Annual Research Conference, Victoria Park, Herston, 28 <sup>th</sup> October 2022.
03/11/2022	<b>Hardy, J.</b> Is there a role for medicinal cannabis in symptom management? Clinical Oncology Society of Australia COSA's 49 <sup>th</sup> Annual Scientific Meeting, Brisbane Conference Centre, Brisbane, 3 <sup>rd</sup> November 2022.
25/11/2022	<b>Hardy, J.</b> What is the evidence for medicinal cannabis in palliative care? Brisbane Cancer Conference, Brisbane Convention Centre, Brisbane, 25 <sup>th</sup> November 2022.
	<b>Poster Presentations</b>
16/06/2022 – 18/06/2022	Ogle, T., Alexander, K. & <b>Yates, P.</b> Cancer nurse perceptions of self-management support for chemotherapy-induced peripheral neuropathy symptoms. CNSA 24 <sup>th</sup> Annual Congress 2022, Brisbane, 16 <sup>th</sup> -18 <sup>th</sup> June 2022.
13/10/2022 – 14/10/2022	Bowers, A., <b>Yates, P.</b> , Herbert, A. Evaluation of the paediatric palliative care outreach collaborative. Australian Paediatric Palliative Care Conference, Virtual, 13 <sup>th</sup> & 14 <sup>th</sup> October 2022.
02/11/2022 – 04/11/2022	<b>Yates, P.</b> , Lui, W.-H., Ong, V., Dixon, C., Hart, S. & Hegarty, S. Identifying symptom burden and unmet needs of women: Findings from a telehealth ovarian cancer support program. 2022 COSA ASM, Brisbane, 2 <sup>nd</sup> -4 <sup>th</sup> November 2022.
02/11/2022 – 04/11/2022	Crichton, M., <b>Yates, P.</b> , Agbejule, O.A., Spooner, A., Chan, R.J. & Hart, N.H. Non-pharmacological self-management strategies for chemotherapy-induced peripheral neuropathy in people with advanced cancer: A systematic review and meta-analysis. 2022 COSA ASM, Brisbane, 2 <sup>nd</sup> -4 <sup>th</sup> November 2022.
01/09/2022 – 04/09/2022	Chee Yen Lee, M., Huggett, G., Greer, R., Good, P., <b>Hardy, J.</b> Audit of drug dependence in Palliative Care patients assessed for medicinal cannabis trial. ANZSPM Biennial Conference 2022, Canberra, (poster presentation), 1 <sup>st</sup> – 4 <sup>th</sup> September 2022.

## Jamieson Trauma Institute



**Professor Michael Schuetz**  
**Director**  
**Jamieson Trauma Institute**



The Jamieson Trauma Institute embodies a unique partnership of clinicians and researchers with the common goal to deliver the best possible care to people suffering traumatic injuries across Queensland. Under the sponsorship of Metro North Health, Motor Accident Insurance Commission and Queensland University of Technology, JTI has continued to explore expert solutions to the diverse challenges in trauma care faced in Queensland. We have steadily approached the vision portrayed in our Future of Trauma Data video (<https://tinyurl.com/JTltr>), released early this year, which shows the role of data on improvements to health service efficiency and patient outcomes.

JTI has continued to trial and monitor innovations in clinical services. Since its establishment at RBWH in 2020, the

multidisciplinary Device Related InFection Team (mDRIFT) has expertly managed orthopaedic-device related infection through effective coordination of patient care. While delivering improved patient outcomes in a cost-effective manner, this multidisciplinary approach has exposed existing barriers to patient management, such as patient education, compliance with treatment, early recognition of complications and remote follow-up. These learnings have encouraged the design and development of an end-to-end patient communications pathway, aligned with the patient's individual health journey to support them in hospital and during recovery.

Our data analytics work examining trends in e-scooter injuries, in partnership with the RBWH Emergency and Trauma Centre, the Princess Alexandra Hospital and Mater Hospital, has provided critical data to inform the Queensland Government Personal Mobility Device Safety Action Plan. With the goal to reduce e-scooter injuries in Queensland, JTI continuously undertakes external engagement and awareness raising through state and national media, leveraging coordinated messaging and opportunities with research stakeholders. We engage and empower the broader research and practitioner community by delivering conference presentations and skills-sharing workshops.

We have also contributed to improving our patient's quality of care by providing content expertise to the Queensland Trauma Education web-based and in-person training program led by the Clinical Skills Development Service. Other projects funded in 2022 include the development of a novel neurosurgical service accessibility index to improve emergency care of people sustaining traumatic brain injuries on Queensland roads, the co-design of robotic therapy to enhance neurorehabilitation and functional recovery after neurological injury, and the assessment of augmented reality for remote emergency surgical assistance. This year, the institute awarded the inaugural Cliff Pollard Award, with the goal to facilitate knowledge translation of projects led by Queensland clinicians.

Our staff have been invited to join key decision-making groups such as the Australia and New Zealand Trauma Registry Board, the Australian Institute of Health and Welfare National Injury Surveillance Advisory Committee, the national ACCC Product Safety Consultative Committee, and the National Rehabilitation Engineering Committee. Our Director chairs the Queensland Trauma and Burns Quality Assurance Committee, which provides reviews and recommendations in relation to trauma care. These activities will ensure the ongoing involvement of JTI on nation-wide injury prevention and care activities for the benefit of our patients.

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

The year 2022 has been one of consolidation for the Jamieson Trauma Institute. JTI's programmes of research have gained depth and breadth, partnerships have developed, and research has influenced policy and guidelines. JTI continues to trial and implement innovation in trauma care. The multidisciplinary Device-Related InFection Team (mDRIFT), acting as a hub of integration across clinical areas and the Herston Infectious Diseases Institute (HeIDI), continued to provide patient-centered care to hundreds of people Queensland-wide who suffer from device-related infection. Adding to mDRIFT's comprehensive research and evaluation program including epidemiology, health economics and registry development, a new PhD aims to evaluate novel therapies to disrupt infection in patients who are unsuitable for implant removal. mDRIFT has received funding from the Queensland University of Technology and RBWH to develop a mobile communications platform between patients and the clinical team.

Research highlights include the finalisation of the injury Treatment & Rehabilitation Accessibility Queensland Index (iTRAQI) project and Emergency Medicine Foundation funding to test the iTRAQI tool (<https://access.healthequity.link>) for road trauma traumatic brain injury patients. Our largest linked data project, linking health (including ambulance, aeromedical retrieval, emergency department, hospital and deaths data), compulsory third party insurance and workers compensation data has been extended and will be used to inform several other projects. The Queensland Injury Atlas, a tool that offers high geographical resolution for detailed injury classifications and costing data, completed in-depth consultations to ensure its usefulness to clinicians, researchers and policymakers alike. E-Mobility research conducted at JTI was key to the introduction of the new Rules for Personal Mobility Devices by the Queensland Government in November, and it has informed the Royal Australian College of Surgeons Personal Mobility Device position paper. This research received philanthropic funding from RACQ and the RBWH Foundation to support continued and expanded surveillance.

Our video "The Future of Trauma Data" captures JTI's vision for what data can do to improve health service efficiency and patient outcomes (<https://tinyurl.com/JTITr>). This video was first shown in March at the 4th Jamieson Trauma Institute Annual Showcase Event – 'Revolution by Evolution' – at which the inaugural Cliff Pollard Award, with the goal to facilitate knowledge translation of projects led by Queensland clinicians, was awarded. The year was marked by wide dissemination of JTI activities at several international conferences. Whole sessions were dedicated to core JTI topics such as augmented reality and telepresent surgeons, e-mobility and injury epidemiology. Notably, three of our postgraduate students received awards for their presentations, and the JTI footprint continues to grow with several invitations to national committees and boards of relevance to injury and trauma.

JTI members published 77 peer-reviewed manuscripts, presented over 100 times and participated in 12 successful research proposals funded with over 5 million dollars. In addition to two new PhD students, the institute welcomed seven UQ Medicine students and several UQ and QUT undergraduate and postgraduate students from diverse disciplines who undertook their research placement at our premises. We are committed to engaging, supporting and developing trauma research capability for the benefit of all Queenslanders.

## Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
Andrew Foster	Bill Crawford Award for the best basic science registrar's paper	Australian Orthopaedic Association Qld Branch meeting
Andrew Foster	Paper Merit Award	5th AO Trauma Asia Pacific Scientific Conference
Andrew Foster	Damian McMahon Trauma Paper Prize	2022 Royal Australian College of Surgeons Annual Scientific Congress
Andrew Foster	Best Paper Award	New Zealand Orthopaedic Association and Australian Orthopaedic Association Combined Annual Scientific Meeting
Samantha Borg, <b>Cate M Cameron</b> , Steven M McPhail, Victoria McCreanor	Lightning Presentation Award	Impact Makers Conference, Queensland University of Technology
Raushan Lala	Best Scientific Paper Award	Trauma 2022 Conference
Rebecca Mitchell, <b>Cate M Cameron</b> , Anne McMaugh, Reidar P Lystad, Tim Badgery-Parker, Tayhla Rhyder	ASICS Best Paper award in Sports Injury Prevention and ASICS Medal for best overall paper	2022 Sports Medicine Australia Conference

## Research Grants

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Fatima Nasrallah, David Reutens, Shekhar Chandra, James Walsham, Trevor Russell, Sandeep Bhuta, Jason Ross, <b>Craig Winter</b> , Siva Senthuran, <b>Judith Bellapart</b> , ..., <b>Cliff Pollard</b> , <b>Jacelle Warren</b> , <b>Victoria McCreanor</b>	Intensive Care, Neurosurgery, Jamieson Trauma Institute	PREDICT-TBI - PREDiction and Diagnosis using Imaging and Clinical biomarkers Trial in Traumatic Brain Injury: the value of Magnetic Resonance Imaging	Medical Research Future Fund Traumatic Brain Injury Mission 2020	\$1,765,000	3yrs, 2020-2023

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
Chiara Santomauro, Mia McLanders, <b>Cliff Pollard</b> , Drew Rae, Penelope Sanderson	Clinical Skills Development Service, Jamieson Trauma Institute	Improving emergency trauma care for rural, regional and remote Queenslanders	Advance Qld Industry Research Fellowship	\$180,000	3yr, 2020-2023
Moe Thandar Wynn, Arthur ter Hofstede, Robert Andrews, <b>Kirsten Vallmuur</b> , Emma Bosley, Stephen Rashford, Clinton Gibbs, <b>Michael Schuetz</b> , <b>Martin Wullschleger</b>	Jamieson Trauma Institute	Road Trauma: Modelling the Patient Journey from Pre-hospital Triage to Outcome Using Process Mining	Motor Accident Insurance Commission	\$325,790	3yr, 2020-2023
Laurent Frossard, <b>Michael Schuetz</b> , Christian Langton, David Lloyd, Rod Barrett, Pei Huang, Ross Powrie	Jamieson Trauma Institute	Innovative In-Vivo Kinetic System to Facilitate Rehabilitation and Maintenance Residuum Health After Limb Loss	Department of Defense Medical Research and Development Program RESTORE awards	US\$900K = AU\$1,2M	2yr, 2020-2022
<b>Michael Schuetz</b> , Prasad Yarlagadda, Kaushik Chatterjee, Dietmar Hutmacher, Kirsten Spann, YuanTong Gu, Alka Jaggessar, Amit Singh, <b>Krispin Hajkowicz</b> , Suryasarathi Bose, Asha Mathew	Jamieson Trauma Institute, Infectious Diseases	Nanoscale manufacturing platform to combat pandemics like COVID-19	Australia-India Strategic Research Fund Round 13 COVID19 Collaborative Research Projects	\$577,130	1yr, 2021-2022
Mark Daniel, Gavin Turrell, S Suzanne Carroll, Margaret Cargo, K Shuvo Bakar, Luis Salvador-Carulla, A Taylor, Yogi Vidyattama, Nasser Bagheri, <b>Susanna Cramb</b>	Jamieson Trauma Institute	Novel modelling to improve decision-making for neighbourhood design to reduce chronic disease risk	NHMRC Ideas grant	\$901,564	4yrs, 2021-2025

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
<b>Andrew Foster, Michael Schuetz</b> David Paterson, <b>Paul Chapman</b> , Anjali Jaiprakash <b>Kelvin Tetsworth</b> , Ross Crawford, <b>Jacelle Warren</b>	Jamieson Trauma Institute, Orthopaedics, Infectious Diseases	Antibiotic coated rods: a 15-year experience of Indications, Surgical Techniques and Clinical Outcomes	Queensland Orthopaedic Research Fund Grant 2021	\$1,000	1yr, 2021- 2022
Melinda Fitzgerald, Belinda Gabbe, Natasha Lannin, <b>Kirsten Vallmuur</b> , Kate Curtis, James Harrison, Jesse Young, David Menon, Jennifer Cullen, Elizabeth Armstrong, Sandra Eades, Peter Cameron, Jamie Cooper, Mark Fitzgerald, Zsolt Balogh, Daniel Fatovich, Stephen Honeybul, Rosalind Jeffree, Robert McNamara, <b>Gary Mitchell</b> , Anthony Delaney, <b>Michael Reade</b> , ..., Fatima Nasrallah, Sandy Shultz, Sarah Hellewell	Jamieson Trauma Institute, Emergency and Trauma Centre	An informatics approach to predict outcomes and monitor intervention efficacy following moderate to severe traumatic brain injury	MRFF 2020 Traumatic Brain Injury Mission - Stream 1	\$499,816	2yrs, 2021-2023



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
Fatima Nasrallah, <b>Cliff Pollard, Craig Winter, Dylan Flaws, Esther Jacobson, Gary Mitchell, Jacelle Warren, Judith Bellapart, Katie McMahon, Maria Hennessy, Mark Midwinter, Michael O'Sullivan, Michael Reade, Michael Redmond, Michael Schuetz, Nathan Brown, Patrick Donnelly, Paul Thomas, Rachael Brown, Silvia Manzanero, Trevor Russell, Victoria McCreanor</b>	Jamieson Trauma Institute, Neurosurgery, Mental Health, Emergency and Trauma Centre, Intensive Care, Neurology	PREDICT-TBI - PREdiction and Diagnosis using Imaging and Clinical biomarkers Trial in Traumatic Brain Injury: the value of Magnetic Resonance Imaging	Motor Accident Insurance Commission	\$1,490,687	3yrs, 2021-2024
Marie-Luise Wille, Dietmar Hutmacher, Sinduja Suresh, Mohit Chhaya, Navid Khani, Markus Laubach, Boris Holzapfel, Michael Wagels, Paige Little, <b>Beat Schmutz, Michael Schuetz</b>	Jamieson Trauma Institute	An Innovative 3D Printed Patient-Specific Bone Scaffold Design for the Treatment of Large Volume Bone Defects	Clive & Vera Ramaciotti Foundation & QUT	Clive & Vera Ramaciotti Foundation \$100,000 & QUT \$30,000	3yrs, 2021-2024
<b>Victoria McCreanor, Kirsten Vallmuur,</b> Geoffrey Binge, Emma Bosley, Kerrienne Watt, M Allen, <b>Susanna Cramb, Shannon Dias, Genevieve Westacott</b>	Jamieson Trauma Institute	Research co-production with First Nations Australians: informing emergency and injury-related health services research with Aboriginal and Torres Strait Islander perspectives: Phase 1	Centre for Healthcare Transformation Grant Enabling Scheme 2021	\$15,409.95	1yrs, 2021-2022
<b>Susanna Cramb,</b> Alan Woodley, <b>Jacelle Warren, Kirsten Vallmuur,</b> Clinton Gibbs	Jamieson Trauma Institute	Impact of location on access to trauma care and rehabilitation services: Developing an Accessibility/Remoteness Index for traumatic brain injury in Queensland	ARC Centre of Excellence for Mathematical & Statistical Frontiers (ACEMS) Sprint Funding	\$18,263	1yrs, 2021-2022

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
<b>Susanna Cramb</b>	Jamieson Trauma Institute	PLACE (Prioritising Location-based Analysis and Consumer Engagement) for Change	NHMRC Emerging Leadership 1 Investigator Award	\$575,740	4yrs, 2022-2026
<b>Frances Williamson, Zephane Tyack, Victoria McCreanor, Martin Wullschleger, Jacelle Warren, Michael Handy, Steven McPhail</b>	Trauma Service, Jamieson Trauma Institute	Value-based trauma care: understanding the cost, effect and implementation of an innovative specialist-led multidisciplinary trauma admitting service	Metro North Health Collaborative Research Grants	\$49,913.54	2yrs, 2021-2023
Alan Woodley, <b>Jacelle Warren, Kirsten Vallmuur,</b> Clinton Gibbs	Jamieson Trauma Institute, Retrieval Services Qld	Impact of location on access to trauma care and rehabilitation services: Developing an Accessibility/Remoteness Index for traumatic brain injury in Queensland	QUT Centre for Data Science Second Byte Scheme	\$19,480	1yr, 2022
<b>Anthony Holley, Brett Droder, Jeremy Cohen, Jeffrey Lipman, Michael Reade</b>	Intensive Care, Jamieson Trauma Institute	The development of an Australasian burns critical care registry	RBWH and RBWH Foundation Special Funding Round: Burns Research	\$114,126	1 yr, 2022
<b>Michael Schuetz, Panos Barlas, Ben Forster, Richard Hanly, Carol Bayley, Nicola Hewlett-Smith, Abbie Crombie, Esther Jacobson, Silvia Manzanero,</b> Steven Hatcher, Rohan Brunello	Jamieson Trauma Institute, Orthopaedics	Streamlining Management and Rehabilitation with Technology for Ankle fractures: Feasibility Study	Wesley Medical Research 2021 Clinical Innovation Grant Round	\$47,848	2 yr, 2022-2023
Clinton Gibbs, <b>Jacelle Warren, Kirsten Vallmuur, Susanna Cramb, Adam Rolley,</b> Alan Woodley, <b>Gary Mitchell, Angela Watson,</b> Rex Parsons, Christopher Hayden		Applications of a novel neurosurgical service accessibility index to improve emergency care of people sustaining a road trauma-related traumatic brain injury in Queensland	Emergency Medicine Foundation (EMF) Special Research Program 'Trauma Care in Regional, Rural and Remote Queensland'	\$37,667	1 yr, 2022-2023

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
<b>Shaun O'Leary</b> , Nadine Foster, <b>Gary Mitchell</b> , <b>Tanya Smyth</b> , <b>Jacelle Warren</b> , Tracy Comans, Gustavo Machado, <b>Panos Barlas</b> , <b>Michelle Cottrell</b> , <b>Janelle Heine</b> , William See	Physiotherapy, Emergency and Trauma Centre, Jamieson Trauma Institute,	Reducing Inappropriate Medications for low back pain in the Emergency department (RIME): a controlled interrupted time-series implementation study	HCF Research Foundation Translational Research Grants	\$289,316	3 yr, 2022-2025
Benjamin Powell, Andrew Staib, Allan McKillop, Mark Edwards, <b>Susanna Cramb</b>	Jamieson Trauma Institute	Predicting in-flight hypotension in aeromedical trauma patients	Emergency Medicine Foundation Emerge Grants	\$10,325	1 yr, 2022-2023
<b>Susanna Cramb</b> , Darren Wraith, Louise Baldwin, Helen Vidgen	Jamieson Trauma Institute	Enabling data-driven decisions for healthier neighbourhoods: Developing scalable methods to capture healthy food access in South-East Queensland	QUT Centre for Data Science Second Byte funding	\$10,000	1 yr, 2022-2023
<b>Beat Schmutz</b> , <b>Michael Schuetz</b> , Uwe Dulleck, Stephen Whyte, <b>William Steadman</b>	Jamieson Trauma Institute, Orthopaedics	Digital-powered healthcare: Improving communication, engagement and treatment compliance in patients with implant-related infections	QUT Centre for Biomedical Technologies Industry Engagement Grant	\$30,000	1 yr, 2022-2023

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

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Kirsten Vallmuur</b>	Matthew Hope, Ben Beck, <b>Victoria McCreanor</b> , <b>Gary Mitchell</b> , Rob Eley, Shefta Huda, <b>Cate Cameron</b> , <b>Jacelle Warren</b>	Personal mobility device injuries: observational study using data from Brisbane	Data from 1,500 admissions to RBWH, PAH and Mater
<b>Cate Cameron</b>	Jacobus Ungerer, <b>Kirsten Vallmuur</b> , <b>Jacelle Warren</b> , <b>Victoria McCreanor</b> , <b>Cliff Pollard</b> , <b>Michael Schuetz</b> , Tegwen Howell, <b>Gary Mitchell</b>	PACE - Alcohol and injury: Prevalence study at RBWH ED.	0
<b>Cate Cameron</b>	Bill Loveday, <b>Kirsten Vallmuur</b> , <b>Victoria McCreanor</b> , Melanie Proper, <b>Jacelle Warren</b> , <b>Cliff Pollard</b> , Nick Graves	CODI - Prevalence and patterns of opioid use pre- and post-trauma in Queensland: population-based data linkage study	Data from over 600,000 admissions state-wide
Matthew Hope	<b>Cate Cameron</b> , <b>Victoria McCreanor</b> , <b>Jacelle Warren</b> , <b>Kirsten Vallmuur</b> , <b>Kevin Tetsworth</b> , <b>Cliff Pollard</b>	The burden and cost of pelvic and lower extremity orthopaedic injuries from land transport crashes in Queensland	Data from 27,303 admitted patient episodes state-wide

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Cate Cameron</b>	<b>Jacelle Warren, Michael Muller, Michael Rudd</b>	Epidemiology of burns patients admitted to the state-wide Adults Burns Service in Queensland: A 10year review	6,554 patients included on the RBWH Burns Registry, 2000-2020
<b>Kirsten Vallmuur</b>	Angela Watson, Paul Taylor, <b>Victoria McCreanor, Cate Cameron, Jacelle Warren</b>	An examination of the quality of injury data and patterns, trends and burden of injury for informing establishment of a state-wide trauma data warehouse	595,604 admitted patient episodes of acute care state-wide
<b>Kirsten Vallmuur</b>	Angela Watson, Chris Uber, Belinda Gabbe, James Harrison, Son Ngheim, <b>Cate Cameron, Jacelle Warren, Victoria McCreanor</b>	Evaluation of ICD-10-AM based injury severity estimation models	92,140 admitted patient acute care episodes state-wide – matched the Queensland Trauma Registry data
<b>Kirsten Vallmuur</b>	Angela Watson, Paul Taylor, Michael Clacher, Sebastian Bielen, Andrew Currie, <b>Cate Cameron, Jacelle Warren, Victoria McCreanor</b>	Feasibility, requirements, and value of data linkage of motor vehicle accident compensation, workers compensation and health data in Queensland	Data from over 1 million records
<b>Cate Cameron</b>	Maura Desmond, <b>Michael Rudd, Cliff Pollard</b> , Kerriane Watt	A retrospective analysis of data collected from the P.A.R.T.Y. (Prevent Alcohol and Risk-Related Trauma in Youth) program 2010-2018	Data from 11,773 students completing the program state-wide
<b>Panos Barlas</b>	<b>Michael Schuetz</b> , Venerina Johnston, <b>Christopher Smith, Jerry van de Pol</b> , Melanie Plinsinga, <b>Richard Hanly, Silvia Manzanero, Victoria McCreanor, Peter Slattery, Esther Jacobson</b>	SMART-Ankle: Streamlining Management And Rehabilitation with Technology for Ankle fractures	6
<b>Kirsten Vallmuur</b>	<b>Jesani Catchpoole, Goshad Nand, Michelle Hillcoat, Ruth Barker</b> , Gaurav Nanda, Mark Lehto	Machine learning classifier development using ED triage text	Methodological study – does not involve patient recruitment
<b>Kirsten Vallmuur</b>	<b>Jacelle Warren, Jesani Catchpoole</b> , Donna Truran, Ming Zhang, Michael Lawley, <b>Genevieve Westacott</b>	SNOMED-ICD interoperability and mapping project: Injury Terminology Aware Analytics and Reporting (ITAAR)	Methodological study – does not involve patient recruitment
<b>Helena Franco</b>	<b>Michael Schuetz, Frances Williamson</b>	Exploring the value of clavicle fixation in trauma patients with associated chest wall injuries	0
<b>Beat Schmutz</b>	Marie-Luise Wille, Paige Little, Buddhi Herath	Best work practise for the manufacturing of patient specific 3D printed scaffolds (for critical size bone defects) – Improved workflow with open source software.	Use of data from existing databases – does not involve patient recruitment
<b>Shahera Banu</b>	<b>Jacelle Warren, Cate Cameron, Victoria McCreanor, Cliff Pollard, Kirsten Vallmuur</b>	Penetrating injury related hospitalisation and patient outcome in Queensland over a 5-year period	37,491 episodes of care (31,223 distinct patients state-wide)

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Beat Schmutz	Tri Phan, <b>Kevin Tetsworth</b>	Variation in femoral morphology and its effects on implant design and implant fit in Asian populations	Use of data from existing databases – does not involve patient recruitment
Kirsten Vallmuur	<b>Susanna Cramb, Victoria McCreanor</b> , Thom Saunders, <b>Michael Schuetz</b>	Developing the Queensland Injury Atlas: An interactive platform for clinical and policy decision making	595,604 admitted patient episodes of acute care state-wide linked to hospital costs
Beat Schmutz	<b>Nicole Milham, Thomas Cooper, Edward Hsu, Anthony Lynham</b> , Dietmar Hutmacher	Differences in orbital volumes generated from MRI-based 3D models of the fractured bony orbit with a virtually positioned pre-bent fan plate in situ compared to CT based models	Use of data from existing databases – does not involve patient recruitment
Beat Schmutz	Hiro Minehara, <b>Chun Yuen, Yohan Schmutz-Leong, Aaron Kurti, Michael Schuetz</b>	Location of tibial nail entry point relative to patellar tendon with patellar centring knee alignment	Use of data from existing databases – does not involve patient recruitment
Beat Schmutz	Husain Tabassum, Paige Little, Andrew Fielding, Andreas Petersik, Heiko Gottschling, Manuel Schroeder	Virtual Automated Anatomical 3D Alignment of Bone Fragments – Solving the Fracture Puzzle	Use of data from existing databases – does not involve patient recruitment
Beat Schmutz	Marco Zucchet, Cristiano Pizzamiglio	Femur Morphometric Analysis	Use of data from existing databases – does not involve patient recruitment
Michael Schuetz	Prasad Yarlagadda, Kirsten Spann, <b>Jason Roberts</b> , Alka Jaggessar, Phong Tran, Adam Irwin, <b>Silvia Manzanero, Esther Jacobson</b>	Nanoscale manufacturing platform to combat pandemics like COVID-19	Not human research – does not involve patient recruitment
Frances Williamson	<b>Victoria McCreanor</b> , Zephania Tyack, <b>Martin Wullschleger, Jacelle Warren, Michael Handy</b> , Steven McPhail	Value-based trauma care: understanding the cost, effect and implementation of an innovative specialist-led multidisciplinary trauma admitting service	Quantitative: 7,883 Trauma Service patients Qualitative: 10 clinical staff and 5 consumers
Ashish Wadhawan	<b>Michael Schuetz, Kevin Tetsworth, Beat Schmutz</b> , Pierrick Bourgeat, Jurgen Fripp	Development of an Artificial Intelligence screening system to identify patients requiring a CT scan following distal radius fractures	525 x-rays from RBWH patients
Gary Mitchell	Claire Bertenshaw, <b>Kirsten Vallmuur, Cate Cameron</b> , Robert Eley, <b>Victoria McCreanor</b> , Andrew McKinlay	DINED: Delivery related Injuries in the ED; a prospective chart review of injuries occurring in meal delivery drivers on motorcycles, scooters and bicycles.	22
Genevieve Westacott	<b>Panos Barlas, Beat Schmutz, Michael Schuetz</b> , Marlien Varnfield, Christian Redd, David Silvera	Intelligent Connected Medical Devices	Methodological study – does not involve patient recruitment

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Beat Schmutz</b>	Padden Jones, Hiro Minehara	Effect of age, ethnicity, and sex on the anatomical fitting of the LCP Distal Femur plate	Use of data from existing databases – does not involve patient recruitment
<b>William Steadman</b>	<b>Michael Schuetz, Beat Schmutz</b> , Andrej Trampuz, <b>Kevin Tetsworth</b>	Surgical treatment of prosthet-ic joint infection & local therapy	0
<b>Michael Schuetz</b>	<b>Shahera Banu, Kirsten Vallmuur, Genevieve Westacott, Frances Williamson</b>	Injury-related compartment syndrome data analysis and education	Use of data from existing databases – does not involve patient recruitment
<b>William Steadman</b>	<b>Paul Chapman, Michael Schuetz, Beat Schmutz, Kevin Tetsworth, Bonnie Woods</b> , Uwe Dulleck, <b>Jason Brown, Shannon Dias, Brett Droder, Arpita Das</b> , Phillip Andrews	Design and development of a gamified app to improve patient engagement and compliance with treatment plan	0
<b>Alejandro Melendez-Calderon</b>	Sandy Brauer, Paul Hodges, Trevor Russell, Sivakumar Balasubramanian, Chelsea Dobbins, Robyn Lamont, Kate Regnault, Jonathan Hadwen	Open-source eHealth platform for generalised data collection	Methodological study – does not involve patient recruitment

### Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Adam Mahoney	<b>Michael Reade, Kirsten Vallmuur, Cate Cameron</b> , Kerrie Mengerson	The spatial epidemiology of trauma in Qld	0
<b>Anthony Holley</b>	<b>Brett Droder, Jeremy Cohen, Jeffrey Lipman, Michael Reade, Kirsten Vallmuur</b>	The development of an Australasian burns critical care registry	0
Andrew Foster	<b>Kevin Tetsworth, Michael Schuetz</b> , Ross Crawford, Anjali T Jaiprakash, <b>Shahera Banu, David Paterson</b>	Antibiotic-loaded polymethyl methacrylate bone cement intramedullary nails in the treatment of fracture-related infection	0

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Craig Winter</b> , Fatima Nasrallah	Stephen Rose, <b>Alan Coulthard</b> , Geoff Osborne, Paul Nichols, Naomi Wray, Anjali Henders, Leanne Wallace, Megan Campbell, Jason Ross, Warwick Locke, <b>Amelia Livermore</b> , <b>Therese Starr</b> , <b>Melissa Lassig-Smith</b> , <b>Janine Stuart</b> , <b>Cheryl Fourie</b> , <b>Judith Bellapart</b> , <b>Patrick Donnelly</b> , <b>Timothy Whyte</b> , Javier Urriola, <b>Paul Thomas</b> , <b>Cliff Pollard</b> , Katie McMahon, <b>Gary Mitchell</b> , Eduardo Miguel Apellaniz, <b>Liam Maclachlan</b> , Dana Bradford – Project funded by JTI	An MRI approach to investigate blood-brain barrier dysfunction in TBI and SAH patients as a predictor of patient outcome	10
<b>Gary Mitchell</b>	<b>Cliff Pollard</b> , Fatima Nasrallah, <b>Michael O’Sullivan</b> , Jason Ross, <b>Louise Cullen</b> , <b>Jack Taylor</b> , <b>Nathan Brown</b> , Warwick Locke – Project funded by JTI	The sensitivity and specificity of brain-origin circulating cell free DNA (ccfDNA) for the diagnosis of concussion and prediction of intracranial injuries	0
<b>Christopher Futter</b>	<b>Alvin Obed</b> , Paul Schlosser, Penelope Sanderson, Christine Woods, <b>Kerstin Wyssusek</b> – Project funded by JTI	The use of Head-Mounted Displays (HMDs) to detect patient deterioration in a simulated trauma setting	0
Rebecca Mitchell	<b>Cate Cameron</b> , Reidar Lystad, Olav Nielssen, Anne McMaugh, Geoff Herkes, Carolyn Schniering, Tien-Ming Hng	Impact of chronic health conditions and injury on school performance and health outcomes in New South Wales, Australia	Data from over 22,000 injury hospitalisations
<b>Elizabeth Vujcich</b>	<b>Jason Brown</b> , <b>Michelle Donovan</b> , <b>Noah Betar</b> – Project funded by JTI	ELATE - Early versus Late Ablative CO2 Fractional Laser Treatment Evaluation	8
<b>Andrea Mc Kittrick</b>	<b>Michelle Donovan</b> , <b>Amber Jones</b> , <b>Jason Brown</b> , <b>Elizabeth Vujcich</b> , <b>Sue Laracy</b> , <b>Jennifer Strong</b> – Project funded by JTI	ELEVATE – Feasibility, acceptability and safety of vacuum therapy on burn scar outcomes	11
<b>Christopher Futter</b>	<b>George Pang</b> , <b>Mark Trembath</b> , <b>Kerstin Wyssusek</b> , <b>Christine Woods</b> – Project funded by JTI	3D Printed Thoracic Epidural Trainer and a novel approach to ultrasound guided epidural insertion	0
Fatima Nasrallah	David Reutens, Shekhar Chandra, James Walsham, Trevor Russell, Sandeep Bhuta, Jason Ross, <b>Craig Winter</b> , Siva Senthuran, <b>Judith Bellapart</b> , ..., <b>Cliff Pollard</b> , <b>Jacelle Warren</b> , <b>Victoria McCreanor</b>	PREDICT-TBI: PREdiction and Diagnosis using Imaging and Clinical biomarkers Trial in Traumatic Brain Injury	18
Luke Visscher	Anjali Prakash, Ross Crawford, <b>Michael Schuetz</b> , <b>Beat Schmutz</b>	Can statistical shape modelling of population variation in bony anatomy be used to improve orthopaedic surgery outcomes in terms of implant design and surgical planning compared to the standard	n.a.
<b>Jennifer Paratz</b>	<b>Cate Cameron</b> , <b>Jacelle Warren</b>	Incidence and cause of mortality in burns survivors	0
<b>Ruth Barker</b>	<b>Jesani Catchpoole</b> , David Eager, Lisa Sharwood	A longitudinal study of domestic trampoline-related injuries	n.a.

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Martha Druery	<b>Cate Cameron, Jacelle Warren</b> , Michael Waller, Danielle Ford, <b>Arpita Das</b> , Xylyss Lyon, Julia Wood	Factors affecting psychosocial and physical outcomes after major burn injuries in adults	Data from 274 patients from the Professor Stuart Pegg Adult Burns Centre
Jane Nikles	Amy Johnston, Mieke van Driel, <b>Cate Cameron</b> , Carrie Ritchie, Rachel Elphinston, <b>Jacelle Warren</b> , Michele Sterling, Chris Freeman, Nigel Armfield, Sigfried Perez, Kirsten Strudwick, Petina Hodges, Paul Stankunas, Andrew Bermingham, Tasha Power, Norm Good, Jin Yoon	Patterns of prescription opioid use following ED presentation for minor road traffic crash injury: long-term community follow-up using data linkage	0
Reidar Lystad	Lorna Peters, Melissa Johnstone, Louise Ellis, Rebecca Mitchell, Jeffrey Braithwaite, Viviana Wuthrich, Janaki Amin, <b>Cate Cameron</b>	Macquarie MINDS: Monitoring of Injury and psychosocial health outcomes, career trajectories and continuing education, LiveD experiences and Social connectedness	0
<b>Stephen Butler</b>	<b>Trevor Gervais, Michael Schuetz</b> , Katie McMahon, <b>Michael O'Sullivan, Robert Henderson</b> , Nyoman Kurniawan, Jin Jin, <b>James Powell, Esther Jacobson</b>	Use of advanced magnetic resonance imaging to diagnose brachial plexus injuries and inform surgical intervention	2
Chiara Santomauro	Mia McLanders, <b>Cliff Pollard, Sarah Pearce</b> , Drew Rae, Penelope Sanderson	Improving emergency trauma care for rural, regional and remote Queenslanders	Participants are medical students
Simon Platt	<b>Beat Schmutz</b> , James Wheeler, Samuel Morgan, Yohan Schmutz-Leong, Benjamin Huang	A volumetric analysis of the posterior malleolus segment in supination external rotation type 4 ankle fractures	Use of data from existing databases – does not involve patient recruitment
Terra Bredy	Freyr Patterson, Celeste Glasgow – Project funded by JTI	Enhancing occupational performance in orthopaedic trauma patients with distal radial fractures	
Moe Thandar Wynn	Arthur ter Hofstede, Robert Andrews, <b>Kirsten Vallmuur</b> , Emma Bosley, Stephen Rashford, Clinton Gibbs, <b>Michael Schuetz, Martin Wullschleger</b>	Road trauma: modelling the patient journey from pre-hospital triage to outcome using process mining	n.a.
<b>Marie-Luise Wille</b>	Dietmar Hutmacher, Sinduja Suresh, Mohit Chhaya, Navid Khani, Markus Laubach, Boris Holzapfel, Michael Wagels, Paige Little, <b>Beat Schmutz, Michael Schuetz</b>	Patient-specific pelvic and acetabular fracture classification using Artificial Intelligence	Use of data from existing databases – does not involve patient recruitment
Belinda Dow	<b>Justin Kenardy</b> , Debbie Long, Grace Scott, Alexandra De Young – Project funded by JTI	Feasibility of an early intervention to prevent persistent traumatic stress reactions in young children admitted to intensive care	Recruitment at Qld Children's Hospital
Bronwyn Griffin	Alexandra De Young, Roy Kimble, Kate Trenowth – Project funded by JTI	Co-design and implementation pilot of a post trauma electronic paediatric psychosocial screen	Recruitment at Qld Children's Hospital



Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Dylan Flaws</b>	<b>Nicole Brigg</b> , Vivienne Tippett – Project funded by JTI	UR-TOPIC Understanding Recovery and Tracking Outcomes of Post Intensive Care	0
<b>Dylan Flaws</b>	Adrian Barnett, John Fraser, Jiville Latu, Mahesh Ramanan, Alexis Tabah, Vivienne Tippett, Oystein Tronstad, Sue Patterson – Project funded by JTI	Tracking Outcomes Post Intensive Care (TOPIC)	227 patients across Metro North hospitals
Clinton Gibbs	<b>Jacelle Warren, Kirsten Vallmuur, Susanna Cramb</b> , Adam Rolley, Alan Woodley, <b>Gary Mitchell</b> , Angela Watson, Rex Parsons, Christopher Hayden	iTRAQI - Applications of a novel neurosurgical service accessibility index to improve emergency care of people sustaining a road trauma-related TBI in Queensland	0
<b>Shaun O’Leary</b>	Nadine Foster, <b>Gary Mitchell, Tanya Smyth, Jacelle Warren</b> , Tracy Comans, Gustavo Machado, <b>Panos Barlas, Michelle Cottrell, Janelle Heine</b> , William See	Reducing Inappropriate Medications for low back pain in the Emergency department (RIME): a controlled interrupted time-series implementation study	0
Mark Elcock	Clinton Gibbs, <b>Kirsten Vallmuur, Jacelle Warren, Brett Droder, Shahera Banu</b> , Jahnavi Burnham	Developing and implementing a framework for evaluating the impact of the COVID-19 pandemic on Queensland’s aero-medical retrieval service net-work operation, performance, and outcomes to inform future preparedness	0
Samantha Borg	<b>Cate Cameron, Victoria McCreanor</b> , Steven McPhail	Prevalence, health service encounters and economic burdens associated with opioid use in adult spinal cord injury populations	0
Benjamin Powell	Andrew Staib, Allan McKillop, Mark Edwards, <b>Susanna Cramb</b>	Predicting in-flight hypotension in aeromedical trauma patients	0
Grant Christey	<b>Jacelle Warren</b> , Cameron Palmer, Maxine Burrell, <b>Kirsten Vallmuur</b>	Development of a standardised minimum dataset for low severity trauma patients in trauma registry collections in Australia and Aotearoa New Zealand	Methodological study – does not involve patient recruitment

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

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Victoria McCreanor</b>	<b>Kirsten Vallmuur</b> , Geoffrey Binge, Emma Bosley, Kerriane Watt, M Allen, <b>Susanna Cramb, Shannon Dias, Genevieve Westacott</b>	Research co-production with First Nations Australians: informing emergency and injury-related health services research with Aboriginal and Torres Strait Islander perspectives: Phase 1	0

## Research Publications

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Michael Schuetz	<a href="https://orcid.org/0000-0003-2808-0631">https://orcid.org/0000-0003-2808-0631</a>
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**Journal Articles (RBWH staff in bold)**

Alonso JM, **Lipman J**, Shekar K. A novel barrier device and method for protection against airborne pathogens during endotracheal intubation. *Eur J Anaesthesiol.* 2022;39(11):900-3. <https://doi.org/10.1097/EJA.0000000000001731>

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Barnett A, Page K, Dyer C, **Cramb S.** Meta-research: justifying career disruption in funding applications, a survey of Australian researchers. *Elife.* 2022;11. <https://dx.doi.org/10.7554/eLife.76123>

Bertenshaw C, Mitchell G, McKinlay A, **Cameron C, Vallmuur K, Smyth T, Witts M.** DINED (Delivery-related INjuries in the Emergency Department) part 2: A chart review of risk factors and injuries affecting food delivery riders. *Emerg Med Australas.* 2022. <https://doi.org/10.1111/1742-6723.13976>

Boot W, **Foster AL,** Guillaume O, Eglin D, Schmid T, D'Este M, Zeiter S, Richards RG, Moriarty TF. An Antibiotic-Loaded Hydrogel Demonstrates Efficacy as Prophylaxis and Treatment in a Large Animal Model of Orthopaedic Device-Related Infection. *Front. Cell Infect Microbiol.* 2022;12. <https://doi.org/10.3389/fcimb.2022.826392>

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**Cameron CM,** Lystad RP, McMaugh A, Mitchell RJ. Hospital service use following an injury hospitalisation for young males and females in a population-level matched retrospective cohort study. *Injury.* 2022. <https://doi.org/10.1016/j.injury.2022.06.021>

**Cameron CM, McCreanor V,** Shibl R, **Smyth T,** Proper M, **Warren J, Vallmuur K,** Bradford N, Carter H, Graves N, Loveday B. Community Opioid Dispensing After Injury (CODI): Protocol for a Population-Based Data Linkage Study. *JMIR Res Protoc.* 2022;11(4). <https://doi.org/10.2196/36357>

**Cameron CM,** Vuong K, McWhinney B, Zournazi A, **Manzanero S, Warren J, Mitchell G, McCreanor V, Vallmuur K,** et al. Prevalence of alcohol consumption in emergency presentations: Novel approach using two biomarkers, ethanol and phosphatidylethanol. *Drug Alcohol Rev.* 2022. <https://doi.org/10.1111/dar.13534>

**Cameron CM,** Eley R, Judge C, O'Neill R, **Handy M.** Did attending P.A.R.T.Y. change youth perceptions? Results from 148 Queensland schools participating in the Prevent Alcohol and Risk-Related Trauma in Youth Program, 2018-2019. *Inj Prev.* 2022;28(3):218-24. <http://dx.doi.org/10.1136/injuryprev-2021-044222>

Cameron JK, Aitken J, Reid A, Mengersen K, **Cramb S,** Preston P, Armstrong B, Baade P. Geographic distribution of malignant mesothelioma incidence and survival in Australia. *Lung Cancer.* 2022;167:17-24. <https://doi.org/10.1016/j.lungcan.2022.03.017>

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**Catchpoole J,** Nanda G, **Vallmuur K, Nand G,** Lehto M. Application of a Machine Learning-based Decision Support Tool to Improve an Injury Surveillance System Workflow. *Appl Clin Inform.* 2022. <https://doi.org/10.1055/a-1863-7176>

**Catchpoole J,** Nanda G, **Vallmuur K, Nand G,** Lehto M. Application of a Machine Learning-Based Decision Support Tool to Improve an Injury Surveillance System Workflow. *Appl Clin Inform.* 2022;13(03):700-10. <https://doi.org/10.1055/a-1863-7176>

Chandran D, Park S, **Barker R,** Burns H. Management of oesophageal impaction of button batteries in Queensland. *ANZ J Surg.* 2022. <https://doi.org/10.1111/ans.17638>

Chapman K, Norwood M, Shirota C, **Palipana D,** Kendall E. An undignified disaster reality for Australians with disability. *Aust Health Rev.* 2022;46(6):710-2. <https://doi.org/10.1071/AH22212>

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Dumidu HM, Attanayake AB, Barnett A, Burton NW, Brown WJ, **Cramb SM.** Diabetes and physical activity: A prospective cohort study. *PLoS One.* 2022;17(10):e0276761. <https://doi.org/10.1371/journal.pone.0276761>

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Farkas A, Oikonomou K, Ghanbar M, Villasurda P, Varghese J, **Lipman J**, Sassine J, Ranganathan D, Roberts JA. Population Pharmacokinetics of Intraperitoneal Gentamicin and the Impact of Varying Dwell Times on Pharmacodynamic Target Attainment in Patients with Acute Peritonitis Undergoing Peritoneal Dialysis. *Antimicrob. Agents Chemother.* 2022;66(2). <https://doi.org/10.1128/AAC.01679-21>

Guerra Valero YC, Dorofaeff T, Coulthard MG, Sparkes L, **Lipman J**, Wallis SC, Roberts JA, Parker SL. Optimal dosing of cefotaxime and desacetylcefotaxime for critically ill paediatric patients. Can we use microsampling? *medRxiv.* 2022. <https://doi.org/10.1101/2022.03.11.22272285>

Hasan MM, Fatima Y, Cleary A, McDaid L, Munir et al (inc. Dias S). Geographical variations in the prevalence of traditional and cyberbullying and its additive role in psychological and somatic health complaints among adolescents in 38 European countries. *J Psychosom Res.* 2022;164:111103. <https://doi.org/10.1016/j.jpsychores.2022.111103>

Heathcote K, Devlin A, McKie E, Cameron P, Earnest A, Morgan G, Gardiner B, Campbell D, **Wullschlegler M**, **Warren J**. Rural and Urban patterns of severe injuries and hospital mortality in Australia: An analysis of the Australia New Zealand Trauma Registry: 2015-2019. *Injury.* 2022;53(6):1893-1903. <https://doi.org/10.1016/j.injury.2022.03.044>

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## Book Chapters (RBWH staff in bold)

Nanda G, **Vallmuur K**, **Catchpoole J**, Lehto MR. 2023. A Bayesian Network-Based Semi-automated Injury Classification System. In: Duffy VG, Lehto M, Yih Y, Proctor RW (eds) *Human-Automation Interaction. Automation, Collaboration, & E-Services*, vol 10. Springer, Cham. [https://doi.org/10.1007/978-3-031-10780-1\\_31](https://doi.org/10.1007/978-3-031-10780-1_31).

## Keynote or Plenary Lectures given in 2022

Date	Title
20/02/2022	<b>Foster A.</b> Single-stage revision of MRSA orthopedic device-related infection in sheep with an antibiotic-loaded hydrogel. AOA QLD Branch Annual Scientific Meeting 2022. Bill Crawford Award for the best basic science registrar's paper.
23/03/2022	<b>Cameron C.</b> The power of data: Prevalence and patterns of substance use in Queensland using novel data collection on alcohol, opioids and trauma. Webinar: invited speaker. Turning Point, Victoria. Virtual.
3/05/2022	<b>Schuetz M.</b> How to establish quality trauma care in a tertiary facility. Keynote speaker. Royal Australian College of Surgeons Annual Scientific Congress 2022. Brisbane.
3/05/2022	<b>Schuetz M.</b> Orthopaedic Trauma. Session chair. Royal Australian College of Surgeons Annual Scientific Congress 2022. Brisbane.
5/05/2022	<b>Pollard C.</b> Robots, drones, AI and telepresent surgeons. Session chair. Royal Australian College of Surgeons Annual Scientific Congress 2022. Brisbane.
24/05/2022	<b>Foster A.</b> Antibiotic hydrogel demonstrates preclinical efficacy for the prevention of infection in Orthopaedic surgery. Royal Australian College of Surgeons Annual Scientific Congress 2022. Damian McMahon Trauma Paper Prize.
28/05/2022	<b>Foster A.</b> Preclinical evaluation of antibiotic hydrogel for single stage revision of fracture related infection. 5th AO Trauma Asia Pacific Scientific Conference. Paper Merit Award.
2-5/09/2022	<b>Pearce S.</b> Organising Committee member. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
2-5/09/2022	<b>Pearce S, Schuetz M.</b> Scientific Committee members. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
2/09/2022	<b>Warren J.</b> Mental health, psychosocial and allied health in trauma care. Session chair. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
2/09/2022	<b>Pearce S.</b> Major incidents and mass casualty events. Session chair. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
2/09/2022	<b>Schuetz M.</b> Free Papers 2. Session chair. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
2/09/2022	<b>Schuetz M.</b> Advocacy, career pathways and succession planning for trauma specialists. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
3/09/2022	<b>Muller M.</b> Trauma education and training. Trauma 2022 (Australasian Trauma Society) Conference. Brisbane
28/11/2022	<b>Smyth T.</b> E-Scooters: keeping communities safe. Workshop host. Safety 2022, the 14th World Conference on Injury Prevention and Safety Promotion. Adelaide