



RESEARCH SERVICES

RESEARCH EXECUTIVE DIRECTOR REPORT



Merrilyn Banks
Executive Director
Research Services

Research at the Royal continues to grow as demonstrated in this review of the outcomes from 2019. There were 476 staff that identified as having a research role at RBWH, leading close to 700 individual research projects and collaborating in another 500 research projects. Over 300 students undertaking research projects at an honours, masters or doctorate level were supervised, and 16 staff completed their PhDs!

Our researchers received \$40 million for conducting research in 2019. Over 900 research articles were published in peer reviewed journals and our researchers presented over 1000 oral or poster presentations at national and international conferences.

Research Services is committed to working with our clinician researchers to continue to further grow research capacity and capability through making research processes easier and improving access to resources to conduct research. The RBWH Research Council is made up of key Service Line and individual researchers who provide advice on improving research at the Royal.

RBWH RESEARCH COUNCIL



Back row (L-R): Emma Raymond (*Research Services*), Sunil Lakhani (*Pathology Qld*), Gordon McGurk (*HREC*), Leah Hoppe (*Research Services*), Jye Smith (*Nuc.Med*), Marita Prior (*Med. Imaging*), Ian Parker (*Allied Health*), Robert Tindle (*Research Advisor*), Niall Higgins (*Mental Health*), Nicole Marsh (*Nursing*)

Front row (L-R): Louise Cullen (*Emergency Medicine*), Leonie Callaway (*Women's and Newborn*), Merrilyn Banks (*Research Services – Chair*), Victoria Eley (*Anaesthetics*), Helen Healy (*Renal Medicine*)

Absent: Jeff Lipman, David Cavallucci, David Paterson, Adrienne Young, Tara McCurdie, Katie Foxcroft, Steven Lane, Therese Starr, Kevin Laupland, Michael Schuetz, Callum Tear, Kaelah Bosanquet, Rebekah Steele

RESEARCH ETHICS & GOVERNANCE

The RBWH Human Research Ethics Committee (HREC) is one of 50 HRECs in Australia whose processes have been certified by the National Health and Medical Research Council to review in a wide range of research categories. These categories include clinical trials, interventional and qualitative research. The HREC can also review in the categories of research involving First Nations Peoples; Data Linkage; and paediatric research, by virtue of having or having access to the required expertise.

The HREC has around 35 members from a variety of backgrounds whose diverse expertise allows a rigorous yet practical review of applications. The HREC is constantly improving its review processes and is currently trialing a dynamic review process which will minimise the number of comments that need to be considered post-meeting. The Committee uses research expertise from within the RBWH to assist with reviewing low risk applications, thereby building the expertise and capacity of hospital researchers.

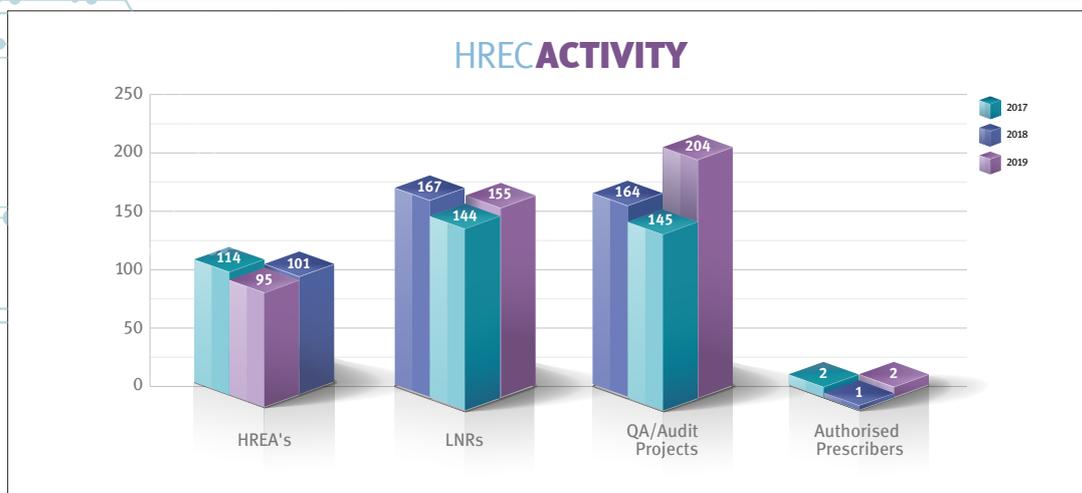
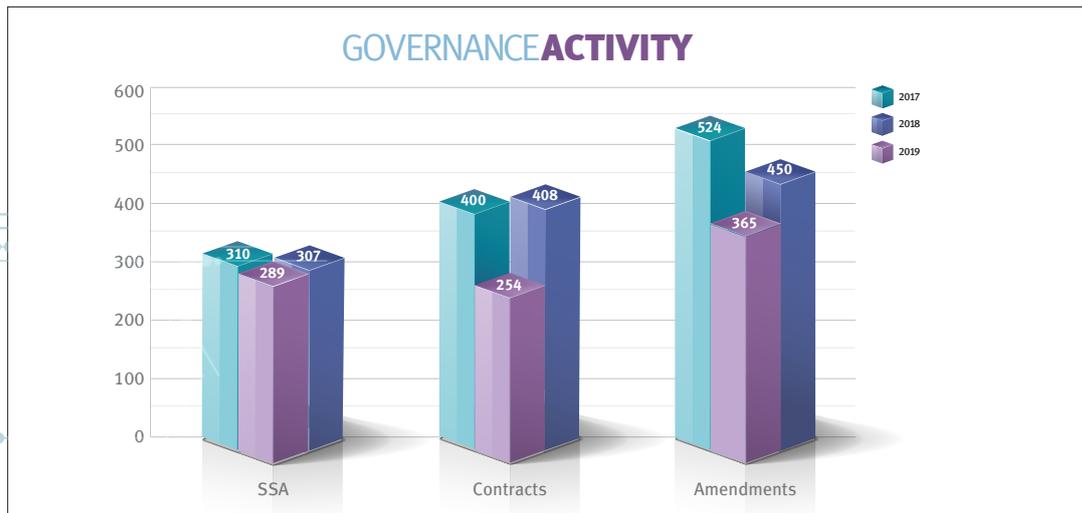
The mean approval times are well within the timeframe of 30 days which is accepted round Australia as the gold standard. Further changes to processes will decrease this time further. The HREC welcomes input into how to make processes more efficient to meet the needs of patients, participants in research and researchers.

HREC Members for 2019

Name	Role	Name	Role
Dr Gordon McGurk	Chairperson	A/Prof Jeremy Cohen	Practitioner
Ms Lorelle Whittaker	Layperson	A/Prof Glen Kennedy	Practitioner
Ms Lauren Milner	Layperson	Dr Akwasi Amoako	Practitioner
Mrs Lorna Heaslop	Layperson – <i>Retired Practitioner</i>	Dr Thangeswaran Rudra	Practitioner
Ms Glenys Frederiksen	Layperson	Ms Erika Vardanega	Research Nurse – <i>Clinical Trial Coordinator</i>
Mr John McDonnell	Layperson	Ms Ngaire Latch	NUM, Sexual Health and HIV Service
Mr Sumit Desai	Layperson	Most Rev William Morris	Religious Representative
Dr Kylie Wall	Speech Pathologist	Rev/Dr Mervyn Lander	Religious Representative
Prof Pauline Ford	Dentist	Mr Shane Evans	Alternate Lawyer
Ms Okgi Sargent	Registered Nurse	Ms Sonja Read	Alternate Lawyer
Adj A/Prof Angela White	Clinical Psychologist	Mr Edward Hooper	Alternate Lawyer
Ms Patricia Cabrera	Lawyer	Ms Nicole Morgan	Alternate Lawyer
Ms Champika Pattullo	Pharmacist and Researcher	Ms Kristi Geddes	Alternate Lawyer
Ms Emma Savage	Researcher	Ms Cara Black	Lawyer
Ms Kate Lingard	Researcher	Ms Lisa Pomery	IT Expert
Dr Rodney Cusack	Researcher	Dr Peter Glazebrook	Science Advisor

Research governance is the process whereby institutions ensure that research conducted under their auspices are properly accounted for and governed. At the Royal Brisbane and Women's Hospital we review nearly 300 site specific assessment applications each year. Due to the breadth and depth of the research conducted at our institution, our governance reviews are often large, complex, and involve multiple institutions.

Our team includes a full-time Research Governance Manager, 0.5 FTE Research Support Officer and full-time Administration Officer. We support research by facilitating research agreements with collaborators, providing one-on-one research governance advice, as well as offer research ethics and governance clinics where we provide advice to researchers about ethics and governance requirements. We encourage parallel submission for research ethics and governance applications and work closely with the Ethics team and researchers to ensure timely processing and approval timeframes.



RESEARCH SERVICE TEAM



Left-Right: Emma Raymond (*Business Manager*), Tayler Griffin (*Administration Officer, HREC*), Rebekah Steel (*Research Governance Manager*), Ann-Maree Gordon (*Coordinator, HREC*), Mamta Tanwar (*Assistant Coordinator, HREC*), Monique Johnson (*Administration Officer, RGO*), Merrilyn Banks (*Executive Director, Research*), Therese Starr (*Research Coordinator*), Janani Balakrishnan (*Research Support Officer*), Leah Hoppe (*Executive Support Officer*)

Absent: Professor Jeffrey Lipman (*Research Ambassador*), Gordon McGurk (*Chairperson HREC*), Marita Prior (*Research Coordinator*)

RBWH & RBWH FOUNDATION RESEARCH ADVISORY COMMITTEE

The 2019 Membership included:

Prof Gerard Byrne – Chair	Internal	Dr Rachel Walker	External
Adjunct Professor Merrillyn Banks	Internal	Prof Claire Rickard	External
Adjunct Associate Prof Ian Coombes	Internal	Prof Joan Webster	External
Prof Sandra Capra	External	Prof Helen Healy	Internal
Prof Grant Ramm	External	Prof Jeff Lipman	Internal
Prof Robert Ware	External	Prof Frank Gardiner	External
Prof David Paterson	Internal / External		

In 2019 the RBWH received an astounding \$2,400,000.00 towards scholarships, project grants and fellowships, including \$1,500,000.00 received via the Private Practice Trust fund and \$900,000.00 from the RBWH Foundation.

Scholarships are awarded on a competitive basis to clinicians undertaking a research higher degree and are awarded for three years with renewals dependant on successful progress. In 2019, 14 new and 19 renewal scholarships were awarded.

Project grant funding of up to \$40,000 was awarded to ten early career researchers and 15 experience researchers after a competitive grant application process that had over 140 applications. Three fellowships of \$50,000 for two years were also awarded to researchers who recently completed their PhD's.

RBWH Foundation Robert and Janelle Bird Post-Doctoral Fellows (2019-2020):

Name	Title	Summary
 Elise Button	IDENTIFY Study Identifying people with a haematological malignancy who are at risk of deteriorating and dying	People with haematological malignancies often experience suboptimal care near the end of life due to an unpredictable illness trajectory. This research will help us to understand who is at risk of dying and explore the provision of best-practice care near the end of life. A prospective prognostic study will validate previously developed clinical indicators that identify risk of deteriorating and dying in people with a haematological malignancy.
 Jill Campbell	Towards improved understanding of incontinence in the acute care setting; A multisite exploratory study	The research program will provide foundation data to address gaps in understanding the burden and predictors of incontinence, hospital-acquired incontinence and incontinence-associated complications within the hospital setting. In addition, the research program will explore the continence care experience of older inpatients. The results of these studies will inform a larger multicomponent intervention trial with the aim of advancing the provision of gold standard continence care in the hospital setting.
 Victoria Eley	Improving the accuracy of perioperative bloodpressure monitoring in obese patients	Standard rectangular blood pressure cuffs are the wrong size and shape for obese patients. Use of these cuffs can provide inaccurate measurements and compromises the perioperative care of obese patients. The ClearSight™ finger cuff avoids the problems of arm shape but has not been tested in obese patients. The equipment requires validation in obese patients prior to clinical use. The projects undertaken during this Fellowship aim to validate the ClearSight™ finger cuff in obese pregnant and non-pregnant patients. Translation into clinical practice will improve the perioperative care of obese patients who make up an increasing proportion of surgical patients at the RBWH. By providing funding for these two projects, The Robert and Janelle Bird Post-Doctoral Fellowship was instrumental in facilitating A/Prof Eley being awarded \$100 000 from the Australian and New Zealand College of Anaesthetists in the form of an Academic Enhancement Grant, to further expand this program of research.

HERSTON STATE OF THE ART HEALTHCARE SYMPOSIUM

The annual healthcare symposium was in its 28th year and was an opportunity to showcase the facilities strengths in both research and innovation. It was a time to strengthen partnerships and reinforcing the commitment to provide a wealth of opportunities for physicians, nurses, health professionals, researchers and students. 2019 saw the symposium work closely with our academic and research partners, The University of Queensland, Queensland University of Technology, QIMR Berghofer Medical Research Institute and Griffith University. The RBWH Foundation also played a huge part, not only with financial support, but also providing the opportunity to liaise with RBWH consumers. The vision for 2019 Symposium was to showcase the facilities and potential of Herston as a Campus as we move into the future.

The Symposium was a huge success, with over 3000 registrations over the four days. It showcased the advancements and innovations of technology and how it could assist in health care.

As a novel way of presenting all the posters were an electronic format, with abstract Q&A sessions and orals presented via the online portal ZOOM with the ability to ask questions via Slido. A record breaking 194 abstracts were submitted with 28 selected for online oral presentations accompanying its ePoster. These were designed to showcase just some of the research projects that have been underway across the campus and highlight the advancements of which both the Herston Campus and our partners are making. Social media was also utilised for the event, with promotion occurring on both Facebook and Twitter as well as through the RBWH/Metro-North Communications Team.

A final new achievement was through a Digital signage that was placed throughout the hospital displaying the ePosters and broadcasting the online component of the program.

This year seven awards were given to staff for the following categories:

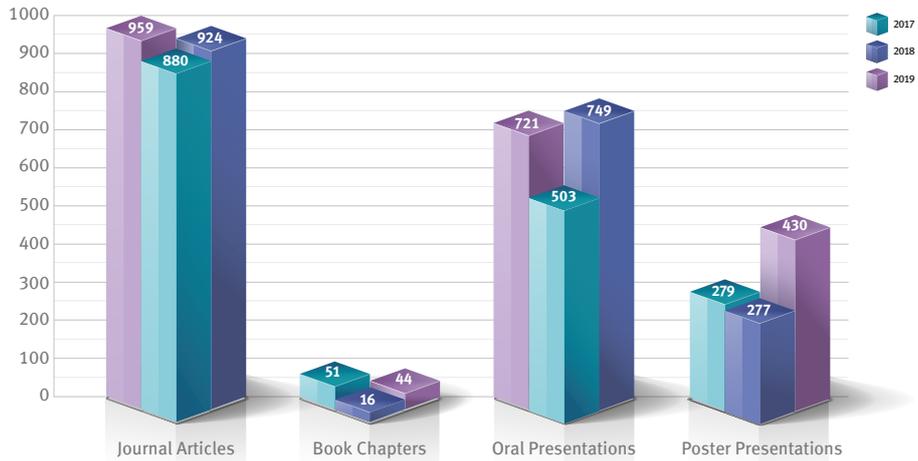
- **RBWH Foundation Best overall** – *Dr Andrew Redmond*: Penicillin allergy need not be forever
- **Discovery and Innovation Research Award** – *Suzanne Parker*: Translating innovation in microsampling into a clinical pharmacokinetic study of vancomycin in critically ill patients
- **The Professor Lawrie Powell AC Early Career Research Award** – *Martha Druery*: Health-Related Quality of Life outcomes post-major burn injuries in adults – a longitudinal exploratory study
- **Health Practitioners Research Award** – *Anna Edwards*: Nutrition outcomes post implantation of a pre-treatment model of care for patients with head and neck cancer receiving chemoradiotherapy.
- **Dr Stephen Morrison Clinical Research Award** – *Cathy Liu*: Gestational age at diagnosis of asymptomatic short cervix and preterm birth risk
- **Nursing Research Award** – *Dr Nicole Gavin*: Estimating Prevalence of Impaired Skin surrounding Devices in cancer care: the preliminary results of a prospective study
- **The Professor William Egerton Award for Medical Research** – *Maggie Keys*: The volume of polyethylene terephthalate plastic – PET – accumulated in one day of surgical operations at RBWH: a pilot audit.

SYMPOSIUM 2019

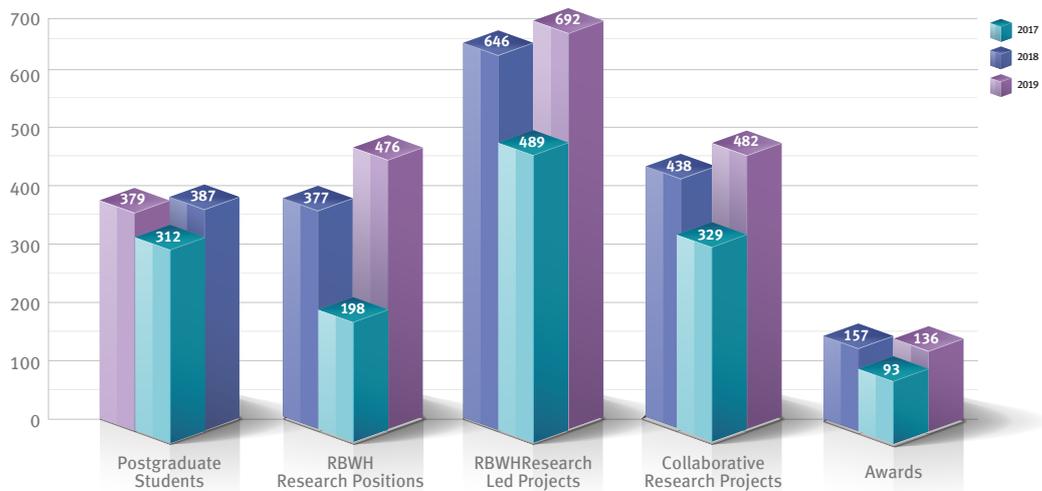


RBWH RESEARCH OUTPUT

PUBLICATIONS



RESEARCH ACTIVITY



PUBLICATIONS/PRESENTATIONS SUMMARY TABLE 2019

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Invited/Oral	Posters
ALLIED HEALTH PROFESSIONALS				
Centre for Allied Health Research	2	0	4	1
Department of Nutrition and Dietetics	20	1	28	17
Department of Occupational Therapy	7	0	8	5
Department of Physiotherapy	20	0	13	6
Department of Psychology	1	0	0	0
Department of Rehabilitation Engineering, Orthotics and Prosthetics	0	0	0	2
Department of Social Work	4	0	4	1
Department of Speech Pathology and Audiology	10	0	9	6
CANCER CARE SERVICES				
Allied Health Professions	9	0	18	13
Cancer Nursing Professorial Precinct	15	0	21	11
Haematology and Bone Marrow Transplant	31	0	29	8
Haemophilia Centre	2	0	1	5
Medical Oncology	51	0	20	49
Radiation Oncology	34	0	47	13
CRITICAL CARE AND CLINICAL SUPPORT SERVICES				
Emergency and Trauma Centre	25	0	7	3
Genetic Health Queensland	29	1	31	7
Hyperbaric Medicine Services	0	0	0	1
Intensive Care Services	61	0	18	0
Professor Tess Craymond Multidisciplinary Pain Centre	4	0	1	0
Skin Integrity	6	8	4	1
INTERNAL MEDICINE SERVICES				
Department of Cardiology	33	1	51	9
Department of Clinical Immunology and Allergy	0	0	0	0
Department of Clinical Pharmacology	8	0	11	6
Department of Endocrinology and Diabetes	23	1	3	4
Department of Gastroenterology and Hepatology	32	2	18	14
Department of Infectious Diseases	44	0	11	10
Internal Medicine Research Unit	18	5	15	2
Kidney Health Service	53	5	42	40
Neurology – Epilepsy	21	0	2	0
Neurology – Motor Neurone Disease	24	1	4	3
Neurology – Stroke	12	0	8	0
Nuclear Medicine Department	8	0	13	0
Palliative and Supportive Care	2	0	5	0
Pharmacy	70	0	40	41
Department of Rheumatology	5	0	0	0

PUBLICATIONS/PRESENTATIONS SUMMARY TABLE 2019 (CONT)

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Invited / Oral	Posters
INTERNAL MEDICINE SERVICES <i>(cont)</i>				
QLD State-wide Antimicrobial Stewardship	2	0	1	0
Department of Thoracic Medicine	11	5	4	2
MEDICAL IMAGING				
Medical Imaging	12	6	34	13
MEDICAL SERVICES				
Quality, Innovation & Patient Safety	2	0	0	0
MENTAL HEALTH SERVICES				
Metro North Mental Health Services	69	2	47	6
NURSING AND MIDWIFERY SERVICES				
Nursing & Midwifery Research Centre	31	1	16	12
RBWH RESEARCH SERVICES				
Herston Imaging Research Facility	26	0	8	10
Jamieson Trauma Institute	24	0	41	10
Centre for Palliative Care Research and Education	30	2	23	7
SURGICAL AND PERIOPERATIVE SERVICES				
Department of Anaesthesia and Perioperative Medicine /Research Interest in Anaesthesia (RIGA)	28	2	48	14
Department of General Surgery – Unit 1 Breast /Endocrine	3	0	1	0
Department of General Surgery – Unit 2 Hepato-Pancreatic Biliary (HPB)	1	0	9	0
Department of General Surgery – Unit 3 Colorectal	14	1	10	5
Department of General Surgery – Unit 4 Upper Gastrointestinal /Bariatric	3	0	5	6
Department of General Surgery – Unit 5 Acute Surgical Unit (ASU)	0	0	0	2
Department of Ophthalmology	8	0	22	3
Department of Oral & Maxillofacial Surgery	10	0	7	0
Department of Orthopaedic Surgery	15	2	82	0
Department of Otolaryngology, Head and Neck Surgery (<i>Ear, Nose and Throat</i>)	7	0	11	0
Department of Plastic and Reconstructive Surgery	0	0	4	0
Department of Urology	41	0	2	4
Department of Vascular Surgery	6	0	6	7
Kenneth G Jamieson, Department of Neurosurgery	10	0	5	3
Professor Stuart Pegg Burns Centre	0	2	17	0
Trauma Service	0	0	5	1
WOMEN'S AND NEWBORN SERVICES				
Grantley Stable Neonatal Unit	8	0	7	9
Obstetrics and Gynaecology	28	0	8	44
Obstetric Medicine	12	0	15	24
Perinatal Research Centre	11	0	16	10
Queensland Centre for Gynaecological Cancer	7	0	6	1

THE CENTRE FOR PALLIATIVE CARE RESEARCH & EDUCATION



Patsy Yates
Distinguished Professor
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 2019:

The Clinical Research Program Leader Prof Janet Hardy was successful in obtaining funding in 2018 for a world-first clinical trial "*To evaluate benefits of medicinal cannabinoids for symptom relief in cancer patients receiving palliative care*". The multi-centre trial funded by the landmark Medical Research Future Fund is progressing well in 2019, with medicinal cannabinoids trials open and recruiting well, across 5 sites in Queensland. CPCRE staff have continued research projects funded by National Health and Medical Research Council (NHMRC), Australian Research Council (ARC), Mater Medical Research Institute (MMRI), Department of Health (DOH), Cancer Australia, Cancer Council NSW, and the Australian Government. Research projects are multi-disciplinary and are across institutions, and results have been published in national and international peer reviewed publications. CPCRE staff hold appointments on state, national and international Palliative Care/Oncological and Nursing, Medical and Indigenous 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 and Workforce Development Programs. The Centre disseminates pertinent palliative care education and research information to health professionals via: the CPCRE Website, CPCRE Newsletter (quarterly), CPCRE Calendar (biannually), Monthly E-Bulletins, the Annual Research Conference and the Annual Update Symposium (topic rotates three yearly between general medicine, oncology and supportive care); the Annual Master Class 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.

Supervised Post-Graduate Research Students

Name <i>(RBWH staff in bold)</i>	Current Studies <i>(e.g. PhD, Masters etc.)</i> University <i>(duration)</i>	Research Project Title	Supervisors <i>(RBWH staff in bold)</i>
Vanessa Brunelli	PhD, QUT (2013-2019)	Development of a model of engagement designed to enhance specialist cancer nurse abilities to support people living with lung cancer in self-management	Patsy Yates , Carol Windsor
Doreen Tapsall	Professional Doctorate, QUT (2011-2019)	Factors influencing Nurses engagement in continuing professional development in cancer nursing	Patsy Yates , Kimberly Alexander
Alison Bowers	PhD, QUT (2016-2020)	Paediatric life-limiting conditions: prevalence and palliative care needs	Patsy Yates , Raymond Chan
Rae Blades	Masters by Research, QUT (2016-2020)	The prevention and treatment of radiation dermatitis in patients with head and neck cancer using StrataXRT, is more cost effective than standard care during and post radiotherapy	Patsy Yates , Raymond Chan, Steven McPhail
Cara Cabilan	Masters by Research, QUT (2014-2019)	The physical activity, sedentary behaviour, functional status, and quality of life of colorectal cancer patients within six months after curative treatment	Kimberly Alexander, Patsy Yates , Sonia Hines
Piyada Chaisri	PhD, QUT (2018-2022)	Health related quality of life in children with cancer in Thailand	Patsy Yates , Natalie Bradford
Dianne Legge	Masters by Research, QUT (2015-2019)	Supportive care needs of people diagnosed with low-grade glioma (LGG) in the 3 years post diagnosis	Patsy Yates , Danette Langbecker
Robyn Matthews	Masters by Research, QUT (2016-2021)	The preparedness of novice cancer nurses in delivering end-of-life care in the acute oncology hospital setting	Patsy Yates , Elise Button, Raymond Chan
Carla Thamm	PhD, QUT (2012-2021)	An investigation of how sociocultural factors influence health care professionals' and patients' experience of head and neck cancer and its treatment	Patsy Yates , Sandie McCarthy
Alisha Wintour	Masters by Research, QUT (2016-2020)	Evaluation of an information pamphlet for HPV positive oropharyngeal cancer patients	Patsy Yates , Kimberly Alexander
Cynthia Akuoko	PhD, QUT (2017-2021)	Achieving health services and supportive care needs of women with advanced breast cancer in Ghana	Patsy Yates , Shirley Chambers
Wendy O'Dea	Masters of Philosophy, QUT (2018-2022)	What is the preparedness of cancer nurses caring for patients receiving immunotherapy	Raymond Chan, Patsy Yates
Theodora Ogle	PhD, QUT (2017-2023)	Self-initiated comfort strategies for chemotherapy-induced peripheral neuropathy	Kim Alexander, Patsy Yates , Chris Miaskowski
Clare Quaglia	Masters of Philosophy, QUT (2018-2022)	The use of comprehensive smart phone applications to improve continuity of care and quality of life in patients undergoing treatment for cancer	Kimberly Alexander, Patsy Yates
Porawan Witwanukool	PhD, QUT (2017-2021)	Implementing evidence based physical activity and exercise guidelines by oncology nurses in Thailand	Patsy Yates , Raymond Chan
Saroeun Ven	Masters of Philosophy, QUT (2019-2023)	Unmet needs of informal carers of people living with life-limiting illness and receiving palliative care	Shirley Chambers, Patsy Yates , Jason Mills
Alana Delaforce	PhD, University of Newcastle (2018-2020)	A theoretical analysis of the barriers and facilitators to implementing patient blood management guidelines: a mixed methods restricted review	Jed Duff, Judy Munday, Janet Hardy
Thomas Dilana	PhD, University of Queensland (2018-2020)	Patient attitudes towards medicinal cannabis	Janet Hardy , Rebecca Olson, Phillip Good

RBWH Research Staff with research roles, positions or appointments: e.g. Coordinators, Fellow, Adjunct and Honorary appointments

Name <i>(RBWH Staff in bold)</i>	Type of Position	Funding Source <i>(operational/external/in-kind)</i>	Research Program	Affiliated University/ies
John Haberecht	Visiting Fellow	In kind	Palliative Care	Queensland University of Technology (2016-current)
Patsy Yates	Honorary Fellow	In kind	Faculty of Business	University of Wollongong (2019-current)

Current RBWH Research Group / Department Led Research Activity

RBWH Research Group / Department Led Researchers <i>(RBWH staff in bold)</i>	Collaborative Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Hardy, J., Yates, P	Hardy, J. , Good, P., Lintzeris, N., Martin, J., Yates, P. , Chye, R., Haywood, A., Olsen, R	Medicinal cannabinoids to relieve symptom burden in the palliative care of patients with advanced cancer
Yates, P	Yates, P. , Mitchell, G., Currow, D., Eagar, K., Edwards, H., Gardner, G., Willmott, L., Bonner, A., Clark, R., Tieman, J	Centre for Research Excellence in End of Life Care
Yates, P	Yates, P. , Carter, R	TrueNTH Solutions: an integrated multi-component intervention to improve the lives of men with prostate cancer in Australia
Yates, P	Yates, P. , 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

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Led Researchers	RBWH Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Danby, S., Ekberg, S., Rendle-Short, J., Yates, P. , Herbert, A., Bradford, N., Bluebond-Langner, M	Yates, P	Extraordinary yet mundane talk: children navigating palliative care
Bradford, N., Yates, P. , Chan, R. and Tjondronegoro, D.	Yates, P	RESPONse: Remote Symptom Management in Paediatric Oncology
Juraskova, I., Butow, P., Laidsaar-Powell, R., Boyle, F., Yates, P. , Schofield, P., Kay, J. and Costa, D	Yates, P	Empowering the clinician-patient-carer TRIO: RCT of novel online education modules to facilitate effective family carer involvement in oncology
Hoy, W., Healy, H., Connelly, L., Mitchell, G., Panaretto, K., Endre, Z., Coombes, J., Gobe, G., Bonner, A., Fassett, R., White, B., Douglas, C. , Nelson, C., Leon, D., Waugh, D., Kulkarni, H., Tan, K.-S., Brown, M., Jose, M., Yates, P	Yates, P	Chronic Kidney Disease Centre for Research Excellence

Research Grants

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Hardy, J. , Good, P., Lintzeris, N., Martin, J., Yates, P. , 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	The Commonwealth of Australia, Department of Health, Medical Research Future Fund	\$1,363,040	\$356,000	2018-2021
Danby, S., Ekberg, S., Rendle-Short, J., Yates, P. , 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	\$588,592	\$154,434	2018-2021
Bradford, N., Yates, P. , Chan, R., and Tjondronegoro, D	Centre for Palliative Care Research and Education	RESPONse: Remote Symptom Management in Paediatric Oncology	Children's Health Foundation Queensland	\$255,370	\$78,609	2018-2020
Juraskova, I., Butow, P., Laidsaar-Powell, R., Boyle, F., Yates, P. , Schofield, P., Kay, J. and Costa, D	Centre for Palliative Care Research and Education	Empowering the clinician-patient-carer TRIO: RCT of novel online education modules to facilitate effective family carer involvement in oncology	Cancer Australia and Cancer Council NSW	\$593,202	\$197,065	2018-2020

Research Grants (cont)

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Yates, P. , Mitchell, G., Currow, D., Eagar, K., Edwards, H., Gardner, G., Willmott, L., Bonner, A., Clark, R., Tieman, J	Centre for Palliative Care Research and Education	Centre for Research Excellence in End of Life Care	National Health and Medical Research Council	\$2,495,543	\$0.00	2013-2019
Hoy, W., Healy, H., Connelly, L., Mitchell, G., Panaretto, K., Endre, Z., Coombes, J., Gobe, G., Bonner, A., Fassett, R., White, B., Douglas, C. , Nelson, C., Leon, D., Waugh, D., Kulkarni, H., Tan, K.-S., Brown, M., Jose, M., Yates, P	Centre for Palliative Care Research and Education	Chronic Kidney Disease Centre for Research Excellence	NHMRC CRE in Health Services	\$2,496,981	\$23,454	2014-2019
Yates, P. , Carter, R	Centre for Palliative Care Research and Education	TrueNTH Solutions: an integrated multi-component intervention to improve the lives of men with prostate cancer in Australia	The Movember Group–True NTH	\$1,365,755	\$41,818	2014-2019
Yates, P. , Alexander, K., Miaskowski, C., Chan, R., McCarthy, A., McPhail, S., Wyld, D., Skerman, H	Centre for Palliative Care Research and Education	A sequential multiple assignment randomized trial (SMART) of nursing interventions to reduce pain associated with chemotherapy induced peripheral neuropathy	National Health and Medical Research Council	\$713,418	\$209,990	2017-2021
Hardy, J., Yates, P. , Miakowski, C., Good, P., Skerman, S	Centre for Palliative Care Research and Education	Assessing the influence of genetic variation on symptom clusters in men with castrate resistant prostate cancer	Mater Medical Research Institute Seeding Grant	\$20,000	In kind	2015-2020
Hardy, J. , Good, P., Olsen, R	Centre for Palliative Care Research and Education	Talking about death: A study into palliative care communication	Mater Medical Research Institute Seeding Grant	\$19,320	In kind	2016-2020
Good, P., Sullivan, K., Woodward, N, Hardy, J	Centre for Palliative Care Research and Education	An open label pilot study of oral water-soluble contrast (Gastrografin) in addition to conservative management for the resolution of malignant bowel obstruction in adult patients	Mater Medical Research Institute Seeding Grant	\$20,000	In kind	2015-2020
Hardy, J. , Olsen, R., Good, P	Centre for Palliative Care Research and Education	A qualitative study of cancer patients' perceptions and attitudes toward use of medicinal cannabinoids in palliative care.	Mater Medical Research Institute Seeding Grant	\$19,496	\$7,496	2017-2020
Good, P., Hardy, J	Centre for Palliative Care Research and Education	Assessing physical activity as an outcome of pain management in patients with advanced cancer	Mater Medical Research Institute Seeding Grant	\$20,000	In kind	2017-2020
Cross, J., Good, P., Hardy, J. , Martin, J., Galettis, P., Zeng, L	Centre for Palliative Care Research and Education	Exploring potential anti-inflammatory effects of medicinal cannabis	Mater Medical Research Institute Seeding Grant	\$20,000	\$5,000	2018-2020
Richard, E., Mitchell, G., Nikles, J., Good, P., Senior, H., Steadman, K., Hardy, J	Centre for Palliative Care Research and Education	Oral pilocarpine tablets for xerostomia	Mater Medical Research Institute Seeding Grant	\$19,947	\$9,947	2018-2020
Good, P., Hardy, J. , Philip, J., Weil, J., Crawford, G., McNeil, R., Yates, P	Centre for Palliative Care Research and Education	A randomised, controlled, double blind study of ondansetron versus olanzapine versus haloperidol in patients with cancer and nausea not related to anticancer therapy. A pilot study (Nausea 4 study)	University of Technology Sydney	\$19,947	\$9,947	2018-2020
Hardy, J	Centre for Palliative Care Research and Education	Research into prostate cancer	Mater Medical Research, Bill Siganto Award	\$10,000	In kind	2018-2020

Research Grants *(cont)*

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Hardy, J. , Kindl, K., Tapuni, A., Kingi, N., Good, P., Prasad, S	Centre for Palliative Care Research and Education	The prevalence of QTc prolongation in patients with cancer	Mater Palliative Care Research Fund	Student Project	In kind	2014-2019
Good, P., Hardy, J. , Sullivan, K., Symris, W., Woodward, N	Centre for Palliative Care Research and Education	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	Mater Medical Research Institute Seeding Grant	\$19,230	\$5,000	2015-2020
Hardy, J. , Pinkerton, E., Russell, E., Kindl, K., Good, P	Centre for Palliative Care Research and Education	Quality use of medicine: The use of oral corticosteroids in patients with advanced cancer	Mater Palliative Care Research Fund	Student Project	In kind	2016-2019
Chan, R., Yates, P. , 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). (APP1170519)	NHMRC Partnership Project	\$1,444,032	\$68,980	2019-2024

2019 Research Publications

Journal Articles

- Ekberg, S., Danby, S., Rendle-Short, J., Herbert, A., Bradford, N. & **Yates, P.** Discussing death: making end of life implicit or explicit in paediatric palliative care consultations. *Patient Education and Counseling*, (2019), 102(2), 198-206
- Button, E., Gavin, N., Chan, R., Connell, S., Butler, J. & **Yates, P.** Harnessing the power of clinician judgement. Identifying risk of deteriorating and dying in people with a haematological malignancy: A Delphi study. *Journal of Advanced Nursing*, (2019), 75(1), 161-174
- Button, E., Gavin, N., Chan, R., Chambers, S., Butler, J. & **Yates, P.** Clinical indicators that identify risk of deteriorating and dying in people with a hematological malignancy: a case-control study with multivariable analysis. *Journal of Palliative Medicine*, (2019), 21(12), 1729-1740
- Tindle, D., Windsor, C. & **Yates, P.** Centralizing temporality in adolescent and young adult cancer survivorship. *Qualitative Health Research*, (2019), 29(2), 173-183
- Chan, R., Gordon, L., Tan, C., Chan, A., Bradford, N., **Yates, P.**, Agbejule, O. & Miaskowski, C. Relationships between financial toxicity and symptom burden in cancer survivors: A systematic review. *Journal of Pain and Symptom Management*, (2019), 57(3), 646-660
- Hudson, A.P., Spooner, A.J., Booth, N., Penny, R.A., Gordon, L.G., Downer, T.-R., **Yates, P.**, Henderson, R., Bradford, N., Conway, A., 'Donnell, C., Geary, A. & Chan, R. Qualitative insights of patients and carers under the care of nurse navigators. *Collegian*, (2019), 26(1), 110-117
- Spooner, A., Booth, N., Downer, T.-R., Gordon, L., Hudson, A., Bradford, N., O'Donnell, C., Geary, A., Henderson, R., Franks, C., Conway, A., **Yates, P.** & Chan, R. Advanced practice profiles and work activities of nurse navigators: An early-stage evaluation. *Collegian*, (2019), 26(1), 103-109
- Gordon, L.G., Spooner, A.J., Booth, N., Downer, T.-R., Hudson, A., **Yates, P.**, Geary, A., O'Donnell, C. & Chan, R. Do nurse navigators bring about fewer patient hospitalisations? *Journal of Health Organization and Management*, (2019), 33(1), 51-62
- Northfield, S., Button, E., Wyld, D., Gavin, N., Nasato, G. & **Yates, P.** Taking care of our own: A narrative review of cancer care services-led models of care providing emergent care to patients with cancer. *European Journal of Oncology Nursing*, (2019), 40, 85-97
- Shahid, S., Ekberg, S., Holloway, M., Jacka, C., **Yates, P.**, Garvey, G. & Thompson, S. Experiential learning to increase palliative care competence among the Indigenous workforce: an Australian experience. *BMJ Supportive & Palliative Care*, (2019), 9, 158-163
- Beatty, L., Kemp, E., Coll, J., Turner, J., Butow, P., Milne, D., **Yates, P.**, Lambert, S., Wootten, A., Yip, D. & Koczwara, B. Finding My Way: results of a multicentre RCT evaluating a web-based self-guided psychosocial intervention for newly diagnosed cancer survivors. *Supportive Care in Cancer*, (2019), 27, 2533-2544
- Mitchell, G., Willmott, L., White, P., Piper, D., Currow, D. & **Yates, P.** A perfect storm: fear of litigation for end of life care. *Medical Journal of Australia*, (2019), 210(10), 441.e1
- Bradford, N., Chambers, S., Hudson, A., Jauncey-Cooke, J., Penny, R., Windsor, C. & **Yates, P.** Evaluation frameworks in health services: An integrative review of use, attributes and elements. *Journal of Clinical Nursing*, (2019), 28(13-14), 2486-2498
- Conway, A., Donnell, C. & **Yates, P.** The effectiveness of the nurse care coordinator role on patient-reported and health service outcomes: A systematic review. *Evaluation and the Health Professions*, (2019), 42(3), 263-296
- Hardy, J.**, Skerman, H., Good, P., Philip, J., Currow, D., Mitchell, G., **Yates, P.** A randomized, double-blind controlled trial of methotrimeprazine versus haloperidol in palliative care patients with cancer-related nausea. *BMJ Open*, (2019);9: e029942. DOI:10.1136/bmjopen-2019-029942

Journal Articles (cont)

- Ni, X., Chan, R., **Yates, P.**, Hu, W., Huang, X. & Lou, Y. The effects of Tai Chi on quality of life of cancer survivors: a systematic review and meta-analysis. *Supportive Care in Cancer*, (2019), 27(10), 3701-3716
- Chan, R., Blades, R., Jones, L., Downer, T.-R., Peet, S., button, E., Wyld, D., McPhail, S., Doolan, M. & **Yates, P.** A single-blind, randomised controlled trial of StrataXRT₂ – A silicone based film-forming gel dressing for prophylaxis and management of radiation dermatitis in patients with head and neck cancer. *Radiotherapy and Oncology*, (2019), 139, 72-79
- Xing, W., So, W.K.W., Choi, K.C., Wong, C.L., Tong, M., Choy, Y., Molassiotis, A., **Yates, P.** & Chan, R.J. Translation and psychometric testing of Cancer Survivors' Unmet Needs (Chinese Version). *Asia Pacific Journal of Clinical Oncology*, (2019), 15(5), e142-e146
- Turner, J., **Yates, P.**, Kenny, L., Gordon, L., Burmeister, B., Hughes, B., McCarthy, A., Perry, C., Chan, R., Paviour, A., Skerman, H., Batstone, M. & Mackenzie, L. The ENHANCES study: a randomized controlled trial of a nurse-led survivorship intervention for patients treated for head and neck cancer. *Supportive Care in Cancer*, (2019), 27(12), 4627-4637
- Poudel, A., Berry, R., McCarthy, A., Walpole, E., **Yates, P.** & Nissen, L. Medication use in older, terminally ill cancer patients: Are all medications appropriate? A longitudinal audit. *Palliative Medicine*, (2019), 33(9), 1232-123
- Huang, Y.-L., **Yates, P.**, Thorberg, F.A. & Wu, C.-J.J. Adults' perspectives on cultural, social and professional support on end-of-life preferences. *Collegian*, (2019), 26(6), 621-628
- Good, P., Haywood, A., Gogna, G., Martin, J., **Yates P.**, Greer, R., **Hardy, J.** 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). *BMC Palliative Care*, (2019), 18(110). DOI:10.1186/s12904-019-0494-6
- McCaffrey, N., Flint, T., Kaambwa, B., Fazekas, B., Rowett, D., Currow, D., **Hardy, J.**, Agar, M., Quinn, S., & Eckermann, S. Economic evaluation of the randomised double-blind, placebo-controlled study of subcutaneous ketamine in the management of chronic cancer pain. *Palliative Medicine*, (2019); 33(1), 74-81
- Haywood, A., Duc, J., Good, P., Khan, S., Rickett, K., Vayne-Bossert, P., **Hardy, J.** Systemic corticosteroids for the management of cancer-related breathlessness (dyspnoea) in adults. *Cochrane Database of Systematic Reviews*, (2019), Issue 2. Art. No.: CD012704. DOI: 10.1002/14651858.CD012704.pub
- King, M., Agar, M., Currow, D., **Hardy, J.**, Fazekas, B., McCaffrey, N. Assessing quality of life in palliative care settings: head-to-head comparison of four patient-reported outcome measures (EORTC QLQ-C15-PAL, FACIT-Pal, FACIT-Pal-14, FACT-G7)". *Supportive Care in Cancer*, (2019), Apr 16. DOI: 10.1007/s00520-019-04754-9. [Epub ahead of print]
- Alqabandi, N., Haywood, A., Kindl, K., Khan, S., Good, P., **Hardy, J.** Managing diabetes at the end of life – a retrospective chart audit of two health providers in Queensland, Australia. *Progress in Palliative Care*, (2019), 27(2), 51-57, DOI: 10.1080/09699260.2019.1611721
- Delaforce, A., Moore, D., Duff, J., Munday, J., **Hardy, J.** Assessing transfusion practice in elective surgical patients: a baseline audit. *ISBT Science Series*, (2019); 0:1-8 Available from: <https://onlinelibrary-wiley-com.ezp01.library.qut.edu.au/DOI/full/10.1111/voxs.12496>
- Pinkerton, E., Good, P., Kindl, K., Richard, R., Fischer, A., **Hardy, J.** Quality use of medicines: oral corticosteroids in advanced cancer. *Palliative Medicine*, (2019), Research letter 2019: 33(10),1325-1326. Aug 5:269216319866647. DOI: 10.1177/0269216319866647
- Good, P., Greer, R., Huggett, G., **Hardy, J.** An open-label pilot study testing the feasibility of assessing total symptom burden in trials of cannabinoid medications in palliative care. *Journal of Palliative Medicine*, (2019), Dec 3. DOI: 10.1089/jpm.2019.0540. [Epub ahead of print] PMID:31800354
- Hardy, J.**, Bundock, D., Cross, J., Gibbons, K., Pinkerton, R., Kindl, K., Good, P., Philip, J. Prevalence of QTc prolongation in patients with advanced cancer receiving palliative care – a cause for concern? *Journal of Pain and Symptom Management*, (2019) Dec 19. pii: S0885-3924(19)31061-9. DOI: 10.1016/j.jpainsymman.2019.12.356. [Epub ahead of print].

Book Chapters / Letters

- Matsuoka, H., Agar, M., Vandersman, Z., Good, P., Brown, L., **Hardy, J.**, Weil, J., Currow, D. Harms from haloperidol for symptom management in palliative care; a post hoc pooled analysis of three randomised controlled studies and two consecutive cohort studies. *Journal of Pain and Symptom Management* 2019. May 20. pii: S0885-3924(19)30244-1. DOI: 10.1016/j.jpainsymman.2019.05.004. [Epub ahead of print]. 2019;58(3); e6-e8. (Research Letter)
- Yates, P.** Cancer. In Brown, D., Edwards, H., Buckley, T. & Aitken, R. (Eds.) *Lewis's Medical-Surgical Nursing: Assessment and Management of Clinical Problems* (5th Ed.), (2019). Elsevier Australia, Sydney, pp. 274-312.

2019 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speakers

- Yates, P.** Achieving quality palliative care for all. Canberra Health Annual Research Meeting (CHARM 2019), Canberra, Australia, 31st July 2019
- Yates, P.** National Palliative Care Projects: Palliative Care Education and Training Collaborative (PCC4U and PEPA). Oceanic Palliative Care Conference, Perth, Australia, 11th September 2019
- Yates, P.** National Palliative Care Projects: National Specialist Palliative Care and Advance Care Planning Advisory Services – ELDAC. Oceanic Palliative Care Conference, Perth, Australia, 11th September 2019
- Yates, P.** Building nursing's capacity in cancer control: the important leadership role of the International Society of Nurses in Cancer Care. 12th International Conference on Cancer Care, Maputo, Mozambique, South Africa, 8th November 2019
- Yates, P.** Prostate cancer: latest advances in treatment for early prostate cancer. 2019 COSA Annual Scientific Meeting, Adelaide, Australia, 12th November 2019
- Yates, P.** Palliative care outcomes are effective: but hospital symptoms are superior. PCOC Outcomes & Benchmarking Conference, Sydney, Australia, 20th November 2019

Invited Speakers (cont)

7. **Yates, P.** Improving patient experiences of cancer care. Brisbane Cancer Conference, Brisbane, Australia, 29th November 2019
8. **Hardy, J.** Top 10 tips for medicinal cannabis. General Medicine Update Symposium, Centre for Palliative Care Research and Education, Royal Brisbane and Women's Hospital, Brisbane, Australia, 29th March 2019
9. **Hardy, J.** Advance care planning in the era of high risk anaesthesia. PA Anaesthesia Conference, Translational Research Institute, Princess Alexandra Hospital, Brisbane, Australia, 12th October 2019
10. **Hardy, J.** Cancer pain management, what works and what doesn't? Faculty Pain Medicine Annual Conference, The Byron Resort, Byron Bay, Australia, 18th October 2019
11. **Hardy, J.** Medicinal cannabis – what is the role in palliative care? Faculty Pain Medicine Annual Conference, The Byron Resort, Byron Bay, Australia, 18th October 2019.

Oral Presentations

1. **Yates, P.** Transforming end-of-life care for older Australians: building workforce capacity through ELDAC. 15th National Rural Health Conference, Hobart, Tasmania, 26th March 2019
2. **Yates, P.** Lessons from the field: global nursing leadership in cancer control. International Council of Nurses (ICN) Congress 2019, Singapore, Singapore, 28th June 2019
3. **Yates, P.** Developing the evidence base to strengthen nursing services: The benefits of academic-health service-policy partnerships. ACN National Nursing Forum, Hobart, Tasmania, 23rd August 2019
4. Bradford, N., Chan, R. & **Yates, P.** The veil of cancer symptoms in children: symptoms we know about are not the same as the ones that cause distress. MASCC/ISOO Annual Meeting, San Francisco, USA, 21st June 2019
5. Gavin, N., Button, E., Smith, M., Hayes, T., Leutenegger, J., Glynn, T., Percival, V., Wong, L., Wessling, C. & **Yates, P.** Developing a nursing research internship. Cancer Nurses Society of Australia 22nd Annual Congress, Melbourne, Australia, 21st June 2019
6. Ogle, T., Alexander, K., **Yates, P.** & Miaskowski, C. A systematic review of the effectiveness of self-initiated interventions to decrease pain and sensory disturbances associated with peripheral neuropathy. TCNSA 22nd Annual Congress, Melbourne, Australia, 21st June 2019
7. Chan, R., Blades, R., Jones, L., Downer, T.-R., Peet, S., Button, E., Wyld, D., McPhail, S., Doolan, M. & **Yates, P.** A single-blind, randomised controlled trial of StrataXRT[®] – a silicone-based film-forming gel dressing for prophylaxis and management of radiation dermatitis in patient with head and neck cancer. CNSA 22nd Annual Congress, Melbourne, Australia, 22nd June 2019
8. Bradford, N., Cashion, C., Chan, R., Walker, R., Herbert, A. & **Yates, P.** Integrating patient reported outcomes with digital solutions to empower children and families to self-manage complex health conditions. 2nd Asia Pacific Conference on Integrated Care, Melbourne, Australia, 11th November 2019
9. Delaforce, A., Duff, J., Munday, J., & **Hardy, J.** Assessing transfusion practice in elective surgical patients: a baseline audit. ACORN – Australian College of Perioperative Nurses Conference 2019, Townsville, Australia, 2nd-4th May 2019
10. McCaffrey, N., Agar, M., Currow, D., **Hardy, J.**, Fazekas, B., King, M. "Assessing Quality of Life in People Receiving Palliative Care: Empirical Comparison of Four Questionnaires (EORTC QLQ-C15-PAL, FACT-G7, FACIT-Pal, FACIT-Pal-14). 16th World Congress of the European Association for Palliative Care, Berlin, Germany, 23rd-25th May 2019
11. Delaforce, A., Munday, J., Duff, J., **Hardy, J.**, Moore, D. Assessing transfusion practice in elective surgical patients: a baseline audit to identify opportunities for improvement. Blood 2019: combined Annual Scientific Meeting of the Haematology Society of Australia & New Zealand, Australian & New Zealand Society of Blood Transfusion and Thrombosis and Haemostasis Society of Australia & New Zealand, Perth, Australia, 20th-23rd October 2019
12. Delaforce, A., Duff, J., Munday, J. & **Hardy, J.**, Assessing transfusion practice in elective surgical patients: a baseline audit. Annual University of Newcastle Research Week, Newcastle, Australia, 12th-18th August 2019.

Poster Presentations

1. Bradford, N.K., Chan, R., Cashion, C., Walker, R. & **Yates, P.** RESPONSE: Adaption and validation of a Patient Reported Outcome Measure for Australian Children and Adolescents with Cancer. Cancer Survivorship Conference, Sydney, Australia, 28th-29th March 2019
2. Chan, R., Blades, R., Jones, L. & **Yates, P.** A single-blind, randomized controlled trial of a silicone-based film-forming gel dressing for prophylaxis and management of radiation dermatitis in patient with head and neck cancer. Oncology Nursing Society's 44th Annual Congress, Anaheim, USA, 13th April 2019
3. Blades, R., Chan, R., **Yates, P.** & McPhail, S. Cost-effectiveness of StrataXRT[®] versus Sorbolene for radiodermatitis in head and neck cancer patients: a trial-based economic evaluation. Cancer Nurses Society of Australia 22nd Annual Congress, Melbourne, Australia, 20th-22nd June 2019
4. **Yates, P.**, Rusnac, N., Rosenberg, J., Clifton, K., Brodie, M., Gavin, J., Harrison, D. & Moore, R. Improving palliative care and advance care planning in aged care – early findings of ELDAC working together audit data. Oceanic Palliative Care Conference, Perth, Australia, 10th-13th September 2019
5. Gavin, N., Smith, M., Hayes, T., Leutenegger, J., Glynn, T., Williams, D., Percival, V., Wong, L., Wessling, C., Watling, A., Roberts, N. & **Yates, P.** Developing a nursing research internship. Herston State of the Art Healthcare Symposium, Herston, Australia, 9th-12th September 2019
6. Lah, M.C., Good, P., Huggett, G., **Hardy, J.** Medicinal Cannabinoids for Symptom Relief in Advanced Cancer Patients – Feasibility Study. Australian Society for Breast Disease 12th Scientific Meeting, RACV Royal Pines Resort, Gold Coast, Australia, 10th-12th October 2019
7. Delaforce, A., Munday, J., Duff, J., **Hardy, J.** Assessing transfusion practice in elective surgical patients: a baseline audit to identify opportunities for improvement. Blood 2019: combined Annual Scientific Meeting of the Haematology Society of Australia & New Zealand, Australian & New Zealand Society of Blood Transfusion and Thrombosis and Haemostasis Society of Australia & New Zealand, Perth Convention and Exhibition Centre, Perth, Australia, 20th-23rd October 2019.

Other communications and outputs:

Published Abstracts

Ranse, K., Delaney, L., Ranse, J., Coyer, F. & **Yates, P.** End-of-life care in postgraduate critical care nurse curricula: An evaluation of current content informing practice. *Australian Critical Care*, (2019), 32, S1-S18

McCaffrey, N., Agar, M., Currow, D., **Hardy, J.**, Fazekas, B., King, M. Assessing Quality of Life in People Receiving Palliative Care: Empirical Comparison of Four Questionnaires (EORTC QLQ-C15-PAL, FACT-G7, FACIT-Pal, FACIT-Pal-14). 16th World Congress of the European Association for Palliative Care, Berlin, Germany, 23rd-25th May 2019

Delaforce, A., Duff, J., Munday, J., & **Hardy, J.** Assessing transfusion practice in elective surgical patients: a baseline audit. ACORN – Australian College of Perioperative Nurses Conference 2019, Townsville, Australia, 2nd-4th May 2019

Delaforce, A., Munday, J., Duff, J., **Hardy, J.**, Moore, D. Assessing transfusion practice in elective surgical patients: a baseline audit. Blood 2019: combined Annual Scientific Meeting of the Haematology Society of Australia & New Zealand, Australian & New Zealand Society of Blood Transfusion and Thrombosis and Haemostasis Society of Australia & New Zealand, Perth, Australia, 20th-23rd October 2019

Delaforce, A., Duff, J., Munday, J. & **Hardy, J.**, Assessing transfusion practice in elective surgical patients: a baseline audit. Accepted for oral presentation at the annual University of Newcastle Research Week, Newcastle, Australia, 12th-18th August 2019.

Workshops / Other Presentations

Yates, P. Designing a research project. Emergency Medicine Foundation Research 101 Workshop, Brisbane, Australia, 12th March 2019

Yates, P. ELDAC: Improving palliative care and advance care planning for older Australians. Pre-Conference Workshop, Oceanic Palliative Care Conference, Perth, Australia, 10th September 2019

Yates, P. Creating real improvements for people affected by cancer: The essential role of nursing research. Nursing Research Forum, Memorial Sloan Kettering Cancer Center, New York, USA, 15th April 2019

Yates, P. Panel member. World Health Assembly Side Event, Beyond the headlines – what will it take to address the growing cancer burden? Geneva, Switzerland, 21st May 2019

Yates, P. Navigating the journey from diagnosis to after treatment. 59th PAH Health Symposium, Princess Alexandra Hospital, Brisbane, Australia, 1st August 2019

Yates, P. Dying Well – PCWA Public Forum, Perth, Australia, 9th September 2019

Yates, P. Achieving personalised health care: The role of nurses. The 1st Nanjing Medical University/QUT Nursing Research Symposium, Nanjing, China, 19th October 2019

Yates, P. The Future of Cancer Care Coordination – What does the evidence say? Cancer Care Coordinator Development Day, Mater Health Services, Brisbane, Australia, 25th October 2019

Yates, P. Building systems that respond to what matters most for older Australians at end of life. Joint luncheon of the Parliamentary Friends of Palliative Care and the Parliamentary Friends of Dementia, Canberra, Australia, 28th November 2019

Hardy, J. Nausea RCTs – what are the results and what have we learnt from them? UTS Concept Development Workshop, Jim Douglas Boardroom, St Vincent's Private Hospital, Brisbane, Australia, 1st March 2019

Hardy, J. Top 10 tips for medicinal cannabis – what have we learnt to date? Palliative Care Interest Group Dinner, Victoria Park Function Centre, Herston, Australia, 16th April 2019

Hardy, J. Medicinal cannabis – top 10 tips or what we have learnt so far. Mater Multi-disciplinary Education Session, Mater Adult Hospital, Brisbane, Australia, May 2019

Hardy, J. Opioid update. GP Education Evening, St Vincent's Private Hospital, Brisbane, Australia, 30th July 2019.

Non-Refereed Publications

White, B., Willmott, L., **Yates, P.**, Then, S.-N., Neller, P. & Feeney, R. End of Life Law for Clinicians: new national training. *MJA InSight*, 4th February 2019. (Editorial)

Button, E., Bolton, M., Chan, R., Chambers, S., Butler, J. & **Yates, P.** Editorial. A palliative care model and conceptual approach suited to clinical malignant haematology. *Palliative Medicine*, (2019), 33(5), 483-485.

HERSTON IMAGING RESEARCH FACILITY

The Herston Imaging Research Facility (HIRF) is a dedicated facility for human imaging research on the RBWH campus. The facility houses one of only four combined PET and MR scanners in Australia, as well as a 3T Prisma MRI scanner and a PET/CT scanner, along with supporting infrastructure. HIRF is operated as a unit of RBWH, using RBWH radiographers and nuclear medicine technologists to operate the scanners. Being a stand-alone facility separate to the clinical radiology and nuclear medicine departments, HIRF offers greater access and booking certainty to imaging scanners than is possible in a busy clinical environment. As well as offering a pleasant environment for research participants, HIRF reduces the research load on clinical scanners, reducing wait-list times.

HIRF is an alliance of four partners: Queensland University of Technology, University of Queensland, Metro North Hospital and Health Service, and Queensland Institute of Medical Research-Berghofer. Researchers from all of the partners, as well as external institutions, collaborate on imaging research at HIRF. It is involved in multi-centre national and international trials, commercial work and clinical trials. HIRF also collaborates closely with the radiopharmaceutical laboratory of the nuclear medicine department at RBWH to make available a wide variety of PET tracers for researchers to use at HIRF.

Highlights of our research from 2019 include:

This year HIRF has made significant contributions to a large number of projects, producing high quality outputs. The research projects are focused on a variety of questions – such as more accurate diagnoses, better patient monitoring and therapy outcomes. The researchers work with a broad range of participants, from 6 to 86+ years old. Fostering these strong collaborative relationships with the partners and other external research institutes means that the quality of research and research productivity from HIRF will only grow over 2020.

During 2019 we had 67 research projects, among them were:

Abbvie: A Randomized, Double-Blind, Placebo-Controlled Multiple Dose Study to Assess Efficacy, Safety, Tolerability, and Pharmacokinetics of ABBV-8E12 in Progressive Supranuclear Palsy.

ATA188-MS-101: An Open-Label Phase 1 Study to Evaluate the Safety of ATA188 in Subjects with Progressive and Relapsing-Remitting Multiple Sclerosis.

BeClear Speech Dysarthria: An intensive speech treatment for adults with non-progressive dysarthria.

Beigene 304: An International, Phase 3, Open-label, Randomized Study of BGB-3111 Compared with Bendamustine plus Rituximab in Patients with Previously Untreated Chronic Lymphocytic Leukemia or Small Lymphocytic Lymphoma.

BIOFAB: Skin Burns and Trauma Program – Medical imaging of the external ear towards 3D models for ear reconstruction.

CEST: A multi-centre trial investigating imaging technologies as measures of knee and hip cartilage composition in patients.

CF-LUNG: MRI for automated paediatric cystic fibrosis treatment response assessment.

Chronic Pain: The Central Neurobiological and Immunological Effects of Exercise in Individuals with Chronic.

Neck Pain Consult II: Predicting Surgery-induced Neurological Deficits using CONSULT tractography software.

CXCR4-Pancreatic Cancer: A study to look at a new way of detecting the spread of pancreas cancer.

CXCR4-Rectal Cancer: A pilot study of CXCR-4 PET scanning in operable rectal cancer.

DBS Impulsivity: Impulsivity and caregiver burden after deep brain stimulation for Parkinson's disease.

Defocus: Exploring the retinal response to defocus using fMRI – The brain's response to blurred images.

Echo – Acerta Pharma: A phase 3, randomised, double-blind, placebo-controlled, multicentre study of Bendamustine and Rituximab alone versus in combination with Acalabrutinib (ACP-196) in subjects with previously untreated mantle cell lymphoma.

ENVPWI: A language study of healthy participants into environmental sounds in picture-word interference.

FunDemental: Functional MRI in Delirium Pilot Study.

Ga-68-DOTATATE: Pilot project to compare Ga-68-DOTATATE clinical PET-CT with dynamic liver PET, 'diagnostic MRI' and simultaneous PET-MRI to assess well differentiated neuroendocrine tumour (NET) with liver metastases.

Ga-68-PSMA Colorectal Cancer: Evaluation of the use of Positron Emission Tomography using gallium-labelled [⁶⁸Ga] PSMA ligand in the detection of Metastatic Colorectal Cancer – A Pilot Study.

GE-180 PET in GVHD: Pilot study of ¹⁸FGE180PET to assess acute gastrointestinal graft versus host disease.

HABIT-ILE: A randomized trial of hand arm bimanual intensive training including lower extremity training for children with bilateral cerebral palsy.

KB004: A Phase I safety and biomaging trial of KB004 in patients with glioblastoma {ONJ2017-002}.

LYRA: Sanofi Phase II trial of LYR-210 in Adult subjects with chronic sinusitis.

Malaria: *Functional nuclear medicine imaging in subpatent malaria: a pilot study* Memory or Neurobiological markers for dementia: Neurobiology-informed diagnostic toolkit for Neurodegenerative Disease.

MicroResonance: *Early Psychosis:* Neuroinflammation and Neurodegeneration from prodrome to FEP using multi-modal MRI.

MINERAL: Magnetic Resonance Imaging and Quantitative Susceptibility Mapping (MRI-QSM) of brain iron to identify Chemotherapy-Associated Neurocognitive Impairment (CANI) in Acute Myeloid Leukaemia (AML).

Multiple Myeloma: Pilot study of ⁶⁸Ga-Pentixafor positron emission tomography (PET) imaging in multiple myeloma.

OCD: Effects of focal non-invasive brain stimulation on network dynamics and symptoms of Obsessive-Compulsive Disorder.

Paediatric A-T: The assessment of the respiratory aspects of ataxia-telangiectasia.

PD-MCI: Markers and mechanisms of mild cognitive impairment (MCI) in Parkinson's disease (PD).

Perineural Spread: Utility of High-Resolution MRI in Evaluating Perineural Spread in Head and Neck Cancers.

PERSPECTIVE LCZ696/Entresto: A multicenter, randomized, double-blind, active-controlled study to evaluate the effects of LCZ696 compared to valsartan on cognitive function in patients with chronic heart failure and preserved ejection fraction.

PETAL: Improving the precision of clinical staging of the axilla.

PISA: Prospective Imaging Study of Ageing: Genes, Brain and Behaviour.

PLIMATH: A multi-centre Phase II study to determine the response kinetics, safety and efficacy of pembrolizumab as frontline treatment of patients with Hodgkin Lymphoma considered unsuitable for ABVD.

PREBO-6: Prediction of childhood Brain Outcomes in infants born preterm using neonatal MRI and concurrent clinical biomarkers.

Predict CP: Implementation of comprehensive surveillance to Predict outcomes for children with Cerebral Palsy.

Supervised Post-Graduate Research Students

Name <i>(RBWH staff in bold)</i>	Current Studies <i>(e.g. PhD, Masters etc.)</i> University <i>(duration)</i>	Research Project Title	Supervisors <i>(RBWH staff in bold)</i>
Jessica Bugeja	PhD, UQ (2018-2021)	Imaging Technologies to Measure Cartilage Structure and Composition CEST	Shekhar Chandra (UQ), Jurgen Fripp (CSIRO), Craig Engstrom (UQ)
Tahleesa Cuda	PhD, UQ	⁶⁸ Ga-PMSA Colorectal Cancer	Andrew Stevenson, David Clark, Paul Thomas, Andrew Riddell, John Hooper, Simon Puttick (CSIRO)
Bjorn Burgher	PhD Student	Early Psychosis: neuroinflammation and Neurodegeneration from prodrome to FEP using multi-modal MRI	Michael Breakspear (QIMR), James Scott
Ji Hyun (Julia) Yang	PhD, UQ (2015-2019)	Markers and mechanisms of mild cognitive impairment (MCI) in Parkinson's disease (PD)	Nadeeka Dissanayaka, Katie McMahon (HIRF/QUT), Gerard Byrne
Caitlin Hall	PhD UQ (2018-2021)	Effects of focal non-invasive brain stimulation on network dynamics and symptoms of Obsessive-Compulsive Disorder	Luca Cocchi (QIMR), Graham Radford-Smith, Anton Lord (QIMR)
Arash Arabshahi	PhD UQ (2018-2021)	Effects of focal non-invasive brain stimulation on network dynamics and symptoms of Obsessive-Compulsive Disorder	Luca Cocchi (QIMR), James Roberts (QIMR)
Dr Ashleigh Scott	PhD, University of QLD (2017-2021)	Pilot study of ¹⁸ FGE180PET to assess acute gastrointestinal graft versus host disease	Glen Kennedy, Siok-Keen Tey
Dr Philip Mosley	PhD QIMR Berghofer MRI	Impulsivity and caregiver burden after deep brain stimulation for Parkinson's disease	Prof Michael Breakspear (QIMR)
Maureen Ross	PhD, QUT (2018-expected 2021)	Medical imaging of the external ear towards 3D models for ear reconstruction	Mia Woodruff (QUT), Mark Allenby (QUT), Sean Powell (QUT), Edward Ren (QUT)

Current RBWH Research Group / Department Led Research Activity

RBWH Research Group / Department Led Researchers <i>(RBWH staff in bold)</i>	Collaborative Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Dr Matthew Burge	Paul Thomas, Melissa Eastgate, David Wyld, Nicholas O'Rourke, David Cavallucci, Richard Bryant	CXCR4-Pancreatic Cancer
Dr Matthew Burge	Paul Thomas, Melissa Eastgate, David Wyld, Andrew Stevenson, David Clark	CXCR4-Rectal Cancer
Dr Po-Ling Inglis	Zernie Lwin (PCH), Paul Thomas	KB004
Dr Jason Butler	Dr Cameron Curley, Dr Simon Durrant, Dr Kirk Morris, Dr Elando Subramoniapillai, Tey, Dr Nicholas Weber and Dr Glen Kennedy	PLIMATH
Dr Kowsi Murugappan	A/Prof Paul Thomas, Professor Owen Ung, Dr Ben Green, Cr Clement Wong, Professor Liz Kenny; A/Prof Karin Steinke, Colleen Niland (UQ), Professor Sunil Lakhani (UQ)	PETAL
Ryan Sommerville	Charles Lin, Jennifer Gillespie, Paul Thomas, Brett Hughes, Gishan Ratnayake, Jason Papacostas, Touraj Taheri, Maria Sathi, Markus Barth (UQ), Steffan Bollmann (UQ), Chris Oosthuizen (Mater Hospital), Catherine Barnett (PAH), Ashvini Abeysekara (SCUH), Matthew Fielder (SCUH)	Perineural Spread
Dr Nadeeka Dissanayaka	Ms Ji Hyun (Julia) Yang (UQCCR), Prof Gerard Byrne (RBWH; UQCCR), A/Prof David Copland (UQCCR), A/Prof John O'Sullivan (RBWH; UQCCR), A/Prof Katie McMahon (QUT, HIRF), Prof Nancy Pachana (UQCCR), Prof Peter Silburn (QBI), Prof George Mellick (Griffith University), Ms Tiffany Au (UQCCR), Dana Pourzinal (UQCCR), Elana Forbes (UQCCR)	PD-MCI
Nick Weber	Samuel Kyle, Paul Thomas, Glen Kennedy, Caitlin Thiru	Multiple Myeloma
Bjorn Burgher	Nikitas Koussis (QIMR), Genevieve Whybird (QIMR), Michael Breakspear (QIMR), James Scott	Microresonance
Anders Cervin		LYRA
Ashleigh Scott	Glen Kennedy, Siok-Keen Tey, David Pattison, Paul Thomas	GE-180 PET in GVHD
Jason Butler	Haem Staff – Dr's Curley, Durrant, Morris, Pillai, Tey, Weber and Kennedy	Echo – Acerta Pharma

Current RBWH Research Group / Department Led Research Activity (cont)

RBWH Research Group / Department Led Researchers <i>(RBWH staff in bold)</i>	Collaborative Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Ashleigh Scott	Glen Kennedy , Katie McMahon (<i>HIRF, QUT</i>), Olivier Salvado (<i>CSIRO</i>), Ada Lo, ZKate Thompson	MINERAL
Nicholas Weber	Haem Staff – Dr’s Curley, Durrant, Morris, Pillai, Tey, Weber and Kennedy	Beigene 304
Manoj Bhatt	David Pattison, David Wyld Matthew Burge , Rahul Ladwa (<i>PAH</i>), Peter Garcia, Kevin Lee, Samuel Kyle, Jye Smith , Steven Rose (<i>CSIRO</i>)	Ga ⁶⁸ -DOTATATE

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Led Researchers	RBWH Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Kaye Petherick, Judith McLean, Lowanna Dunn, Deborah Anderson, Cynthia Cliff, Marisha McAuliffe (<i>QUT</i>)	Alison Alexander, Gillian Nasato, Michael Smith, Ian Drake, Jodie Stewart, Glen Kennedy	Cancer Care Information Portal for Cancer Patients in Brisbane’s Metro North Area
Stuart Crozier (<i>UQ</i>), Jurgen Fripp (<i>CSIRO</i>), Craig Engstrom (<i>UQ</i>), Ales Neubert (<i>CSIRO</i>), Shekhar Chandra (<i>UQ</i>)		Imaging Technologies to Measure Cartilage Structure and Composition CEST
John Woodford (<i>QIMR</i>)	James McCarthy (<i>RBWH, QIMR</i>), Paul Thomas, Jennie Roberts , Ashley Gillman (<i>CSIRO</i>), Stephen Rose (<i>CSIRO</i>)	Malaria
Sarah Ward and Michael Breakspear (<i>QIMR</i>)	Eamonn Eeles (<i>RBWH, PCH</i>), Robert Adam, Kana Appadurai, Shanthi Kanagaraja, Elizabeth Waldie, Madeleine Cameron, Suzie Thistlethwaite	FunDemental
Greig de Zubicaray (<i>QUT</i>), Sonia Brownsett (<i>QUT</i>), Matteo Mascelloni (<i>QUT</i>),	Katie McMahon (<i>HIRF, QUT</i>)	ENVPWI
Lee Reid (<i>CSIRO</i>), Jurgen Fripp (<i>CSIRO</i>)	Marita Prior, Lindy Jeffree, Alan Coulthard	CONSULT II
Maureen Ross (<i>QUT</i>), Mia Woodruff (<i>QUT</i>), Sean Powell (<i>QUT</i>), Mark Allenby (<i>QUT</i>), Andy Pandey (<i>QUT</i>), Davide Fontassa (<i>QUT</i>)	Katie McMahon (<i>HIRF/QUT</i>), Clare Berry, Maya Aghajanyan	BIOFAB
Deborah Theodoros (<i>UQ</i>), Brooke-Mai Whelan (<i>UQ</i>), Elizabeth Cardell (<i>Griffith</i>), Emma Finch (<i>UQ</i>), Adam Vogel (<i>Uni of Melbourne</i>), Stacie Park (<i>ACU</i>), Louise Cahill (<i>UQ</i>), David Copland (<i>UQ</i>), Alan Coulthard (<i>UQ</i>), Megan McAuliffe (<i>University of Canterbury</i>)	Katie Mc Mahon (<i>HIRF/QUT</i>), Anna Farrell	BeClear
Professor Michael Pender (<i>UQ</i>)	Dr Zara Ioannides, Dr A Swayne , Nanette Douglas, Gem Mackenroth and Kaye Hooper	ATA188-MS-101

Research Awards and Achievements

Recipient <i>(RBWH staff in bold)</i>	Award	Event
Dr Joanne George	Lions Dunning-Orlich NHMRC New Investigator Award 2019	Highest ranked NHMRC New Investigator Project grant in the Faculty of Medicine, UQ
Bjorn Burger and the Metro-North early psychosis service	Clinical Research Team Award	Metro-North Research Excellence Awards 2019
Dr Leanne Sakzewski	UQ Foundation Research Excellence Award	Research Week, The University of Queensland
Dr Philip Mosley	Australian Society for Medical Research Postgraduate Medal 2018	ASMR Awards
Dr Philip Mosley	American Society for Stereotactic and Functional Neurosurgery Best Abstract	ASSFN Biennial Meeting, Denver, 2018
Dr Philip Mosley	Parkinson’s QLD HDR Travel Award	World Parkinson Congress, Kyoto, Japan, 2019

Research Grants

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Matthew Burge; Vicki Whitehall	Medical Oncology, cancer care services	Molecular Subtyping of KRAS Mutant Colon Cancers to Inform Clinical Decision Making	Tour de Cure	\$100,000.00	\$100,000.00	2019
Janette Vardy, Matthew Burge	Medical Oncology, cancer care services	CHALLENGE: Colon Health and Life Long Exercise ChaNGE.	NHMRC	\$1.121million	\$224,378.20	2019-2023
Matthew Burge	Medical Oncology, cancer care services	MONARCC study	AMGEN	\$650,000.00	\$216,666.67	2019-2021
Dr Joanne George, Dr Alex Pagnozzi, Dr Samudragupta Bora	Queensland Cerebral Palsy and Rehabilitation Research Centre, CSIRO, Mater-UQ	Prediction of childhood Brain Outcomes in infants born preterm using neonatal MRI and concurrent clinical biomarkers - PREBO-6	NHMRC	\$831,700.36	\$148,463.78	2019-2023
Riddell A	RBWH Colorectal Research Unit	Targeted Radionuclide Therapy for Metastatic Lower Gastrointestinal Tumours	Redcliffe Private Practice Fund	\$10,000.00	\$10,000.00	2019
Boyd R, Davies P, Ziviani J, Trost S, Barber L, Ware R, Rose S, Whittingham K, Whitty J, Bell K	Queensland Cerebral Palsy and Rehabilitation Research Centre (UQ), Griffith, CSIRO, Children's Health Queensland	PREDICT outcomes to inform services for children with cerebral palsy	NHMRC	\$774,450.00	\$59,932.00	2014-2020
Ryan Sommerville, Jennifer Gillespie	Head and Neck Cancer Multidisciplinary Team	Utility of High-Resolution MRI in Evaluating Perineural Spread in Head and Neck Cancers	Royal Brisbane and Women's Hospital Foundation Diamond Care Grant	\$31,200.00	\$31,200.00	2019
Dr Leanne Sakzewski, Prof Roslyn Boyd, Prof Yannick Bleyenheuft, Prof Iona Novak, Prof Catherine Elliott, Dr Catherine Morgan, Dr Kerstin Pannek	Queensland Cerebral Palsy and Rehabilitation Research Centre (UQ), Université catholique de Louvain, USyd, Curtin Uni, U Aukland, CSIRO	HABIT-ILE: A randomised trial of Hand Arm Bimanual Intensive Training Including Lower Extremity training for children with bilateral cerebral palsy	NHMRC	\$1,100,902.90	\$299,707.00	2018-2021
Dr Philip Mosley	QIMR Berghofer MRI	Brain Networks Predicting Impulsivity after Subthalamic Deep Brain Stimulation for Parkinson's Disease	Advance Queensland	\$522,000.00	\$180,000.00	2016-2019
Rutger de Zoete, Jeff Coombes, Michele Sterling	UQ	The Central Neurobiological Effects of Exercise in Individuals with Chronic Pain	UQ HABS	\$32,000.00	\$32,000.00	2019
Claire Wainwright; Dr David Reid; Scott Bell, Emmanuelle Fantino, Abdullah A Tarique; Tony Kettle, Nina Dickerhof, Jason Dowling, Andrew Paproki, Tim Rosenow, Andrew Butler	CSIRO, CHRC, TPCH, QCH, CFFR, Telethon Kids Institute	Early life origins of CF lung disease	Cystic Fibrosis Foundation	\$2.3million	\$556,574.00	2019-2021
Manoj Bhatt	Department of Nuclear Medicine, RBWH	Pilot project to assess liver metastases by comparing noel, dynamic and static functional imaging and also morphological imaging with standard of care in HQO Grade I and Grade II Neuroendocrine tumours (NET)	2016 RBWH HIRF Seed Funding Grant	\$38,500.00	\$24,700.00	2018-2019

2019 Research Publications

Journal Articles

1. B Lee, L Lipton, J Cohen, J Tie, A A Javed, L Li, D Goldstein, **M Burge**, P Cooray, A Nagrial, N C Tebbutt, B Thomson, M Nikfarjam, M Harris, A Haydon, B Lawrence, D W M Tai, K Simons, A M Lennon, C L Wolfgang, C Tomasetti, N Papadopoulos, K W Kinzler, B Vogelstein, P Gibbs, Circulating tumor DNA as a potential marker of adjuvant chemotherapy benefit following surgery for localized pancreatic cancer, *Annals of Oncology* mdz200, <https://doi.org/10.1093/annonc/mdz200>
2. Christine Semira; Hui-Li Wong, **Matthew Burge** et al. Chemotherapy and biologic use in routine management of metastatic colorectal cancer: is clinical practice following the evidence? *Internal Medicine Journal* 49 (2019) 446-54
3. Tie J, Cohen JD, Wang Y, **M Burge** et al. Serial circulating tumour DNA analysis during multimodality treatment of locally advanced rectal cancer: a prospective biomarker study. *Gut* 2019; 68:663-671
4. Shehara Mendis, Sophie Beck, Belinda Lee, Margaret Lee, Rachel Wong, Suzanne Kosmider Jeremy Shapiro Desmond Yip, Simone Steel, Louise Nott Ross Jennens, Lara Lipton, **Matthew Burge**, Kathryn Field, Sumitra Ananda, Hui-Li Wong, Peter Gibbs. Right versus left sided metastatic colorectal cancer: Teasing out clinicopathologic drivers of disparity in survival. *Asia-Pac J Clin Oncol.* 2019;1-8
5. **Matthew Burge**, Timothy Price, Christos S. Karapetis. First Line Therapy for Metastatic Colorectal Cancer: Current Perspectives and Future Directions. *Asia-Pac J Clin Oncol.* 2019; 15:3-14
6. Christine Semira, Ben Tran, **Matthew Burge**, Lara Lipton, Peter Gibbs et al. Chemotherapy and biologic use in the routine management of metastatic colorectal cancer in Australia: is clinical practice following the evidence? *Internal medicine Journal.* 49(4): 446-454, 2019
7. Cuda T, Riddell A, Lyons N, Rose S, **Wyld D, Clark D, Stevenson A**, Hooper J, Puttick S, **Thomas P**. Quantifying 68Ga-PSMA-11 Uptake in Metastatic Colorectal Cancer: A Prospective PET Imaging Pilot Study (currently under review with *Journal Nuclear Medicine*)
8. LJ Heame, DP Birney, L Cocchi, JB Mattingley. The Latin Square Task as a Measure of Relational Reasoning. *European Journal of Psychological Assessment*
9. A Kottaram, LA Johnston, L Cocchi, EP Ganella, I Everall, C Pantelis, ... Brain network dynamics in schizophrenia: Reduced dynamism of the default mode network. *Human brain mapping* 40 (7), 2212-2228
10. Cash RFH, Cocchi L, Anderson R, Rogachov A, Kucyi A, Barnett AJ, Zalesky A, Fitzgerald PB. A multivariate neuroimaging biomarker of individual outcome to transcranial magnetic stimulation in depression. *Hum Brain Mapp.* 2019 Jul 22. doi: 10.1002/hbm.24725
11. Cash RFH, Zalesky A, Thomson RH, Tian Y, Cocchi L, Fitzgerald PB. Subgenual Functional Connectivity Predicts Antidepressant Treatment Response to Transcranial Magnetic Stimulation: Independent Validation and Evaluation of Personalization. *Biol Psychiatry.* 2019 Jul 15;86(2): e5-e7. doi: 10.1016/j.biopsych.2018.12.002
12. Di Biase MA, Cropley VL, Cocchi L, Fornito A, Calamante F, Ganella EP, Pantelis C, Zalesky A. Linking Cortical and Connectional Pathology in Schizophrenia. *Schizophr Bull.* 2019 Jun 18;45(4):911-923. doi: 10.1093/schbul/sby121
13. Ren Y, Nguyen VT, Sonkusare S, Lv J, Pang T, Guo L, Eickhoff SB, Breakspear M, Guo CC. Effective connectivity of the anterior hippocampus predicts recollection confidence during natural memory retrieval. *Nature communications.* 2018 Nov 19;9(1):4875
14. Douglas RG, Psaltis AJ, Rimmer J, Kuruvilla T, **Cervin A**, Kuang Y. Phase 1 clinical study to assess the safety of a novel drug delivery system providing long-term topical steroid therapy for chronic rhinosinusitis. *Int Forum Allergy Rhinol.* 2019 Apr;9(4): 378-387. doi:10.1002/alr.22288. Epub 2019 Jan 15
15. Bachert C, Han JK, Desrosiers M... **Cervin AU**, ...Mannent LP. Efficacy and safety of dupilumab in patients with severe chronic rhinosinusitis with nasal polyps (LIBERTY NP SINUS-24 and LIBERTY NP SINUS-52): results from two multicentre, randomised, double-blind, placebo-controlled, parallel-group phase 3 trials. *Lancet.* Accepted
16. Burgess A, Boyd RN, Ziviani J, Chatfield MD, Ware RS, Sakzewski L. Stability of the Manual Ability Classification System in young children with cerebral palsy. *Developmental Medicine & Child Neurology* 2019, 61(7): 798-804. doi: 10.1111/dmcn.14143
17. Reedman S, Boyd RN, Trost SG, Elliott C, Sakzewski L. Efficacy of Participation-focused therapy on performance of physical activity participation goals and habitual physical activity in children with cerebral palsy: A randomized controlled trial. *Archives of Physical Medicine and Rehabilitation* 2019, 100(4):676-686. doi: 10.1016/j.apmr.2018.11.012
18. Sakzewski L, Sicola E, Verhage CH, Sgandurra G, Eliasson AC. Development of hand function in the first year of life of infants with unilateral cerebral palsy. *Developmental Medicine & Child Neurology* 2019, 61(5):563-569. doi: 10.1111/dmcn.14091
19. Campbell M, Ziviani J, Stocker C, Khan A, Sakzewski L. Neuromotor performance in infants before and after early open-heart surgery and risk factors for delayed development at six months of age. *Cardiology in the Young* 2019, 29(2):110. doi: 10.1017/S1047951118001622
20. Burgess A, Ziviani J, Ware RS, Boyd RN, Sakzewski L. Self-care in children with cerebral palsy and its relationship to manual ability: A longitudinal study. *Developmental Medicine & Child Neurology* 2019 61(5):570-578. doi: 10.1111/dmcn.14049
21. Mosley, P.E., Marsh, R., Perry, A., Coyne, T. & Silburn, P. (2018) Persistence of mania after cessation of stimulation following subthalamic deep brain stimulation for Parkinson's disease. *Journal of Neuropsychiatry and Clinical Neurosciences.* 30: 246-249
22. Mosley, P.E., Breakspear, M., Coyne, T., Silburn, P. & Smith, D. (2018) Caregiver burden and caregiver appraisal of psychiatric symptoms are not modified by subthalamic deep brain stimulation for Parkinson's disease. *Nature Parkinson's Disease.* 4: 12
23. Mosley, P.E., Smith, D., Coyne, T., Silburn, P., Breakspear, M. & Perry, A. (2018) The site of stimulation moderates neuropsychiatric symptoms after subthalamic deep brain stimulation for Parkinson's disease. *NeuroImage: Clinical.* 18: 996-1006
24. Mosley, P.E., Robinson, K., Coyne, T., Silburn, P., Breakspear, M. & Carter, A. (2019) A qualitative analysis of neuropsychiatric symptoms after subthalamic deep brain stimulation for Parkinson's disease. *Neuroethics.* Published online ahead of print
25. Paliwal, S., Mosley, P.E.*, Breakspear, M., Coyne, T., Silburn, P., Aponte, E. & Stephan, K. (2019) Subjective estimates of uncertainty and volatility during gambling predict impulsivity after subthalamic deep brain stimulation for Parkinson's disease. *Scientific Reports.* In press. *Co-first author

Journal Articles (cont)

26. Mosley, P.E., Paliwal, S., Robinson, K., Coyne, T., Silburn, P., Tittgemeyer, M., Stephan, K., Breakspear, M. & Perry, A. (2019) The structural connectivity of discrete networks underlies impulsivity and gambling in Parkinson's. Brain. In press.

Conference Publication (reviewed)

1. Tie J, Cohen J, Wang Y, Li L, Lee M, Wong R, Kosmider S, Wong H-L, Lee B, **Burge ME**, Tip D, Karapetis CS, Price TJ, Tebbut NC, Haydon AM, Tomasetti C, Papadopoulos N, Kinzler KW, Vogelstein B, Gibbs P. A pooled analysis of multicentre cohort studies of post-surgery circulated tumour DNA (ctDNA) in early stage colorectal cancer. J Cinc Oncol, 2019 (suppl, abstr 3518)
2. Mendis SR, Lee B, Lee M, Wong R, Kosmider S, Shapiro JD, Yip D, Steel SA, Nott LM, Jennens R, Lipton LR, **Burge ME**, Field KM, Ananda S, Beck S, Wong H-L, Gibbs P. J Cinc Oncol, 2019 (suppl, abstr 623).

2019 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speakers

1. Paproki A., Dowling J, **Wainwright C**, Rose S, Invited speaker and panelist at the 2019 international cystic fibrosis workshop organized by Vertex Pharmaceuticals: “Innovative medical image informatics for improved clinical management of cystic fibrosis”
2. **Dissanayaka N**, fMRI Markers for Mild Cognitive Impairment in Parkinson's disease. Parkinson's Disease Neuroimaging Symposium, Las Vegas, USA July 2019
3. **Dissanayaka N**, Yang J, fMRI Markers for Mild Cognitive Impairment in Parkinson's disease. Department of Neurology Research Seminar Series, August 2019
4. Sakzewski L. Unmasking the black box of participation-focused therapy for children with cerebral palsy. European Academy of Childhood Disability, Paris, France, March 2019
5. Paproki A., Dowling J, Wainwright C, Rose S, invited speaker and panelist at the 2019 international cystic fibrosis workshop organized by Vertex Pharmaceuticals: “Innovative medical image informatics for improved clinical management of cystic fibrosis”.

Oral Presentations

1. Abeysekara A, **Sommerville R**, Lin C, Taheri T, **Sommerville J**. “Head and Neck Cancer with Perineural Spread: Pre-Operative MRI Compared with Histopathology Assessment of Zonal Classification”. Australian and New Zealand Head and Neck Cancer Society (ANZHNC), September 2019
2. Sakzewski L, Verhage C, Sicola E, Eliasson AC. Development of hand function during the first year of life in children with unilateral cerebral palsy. American Academy of Cerebral Palsy and Developmental Medicine, 9-13 October 2018, Cincinnati USA. Developmental Medicine & Child Neurology 2018, 60(S3):65-6
3. Mosley PE, Neurosurgery for psychiatric disorders: an update, RANZCP Congress, Cairns, Australia, 2019.

Poster Presentations

1. Wong H-L, **Burge M** et al, Understanding variation in treatment sequences and outcomes in metastatic colorectal cancer. AGITG ASM 2019
2. Kumari S, **Burge M** et al. Outcomes following resection of colorectal cancer liver metastases in the older patient. AGITG ASM 2019
3. Wong H-L, **Burge M** et al, A pooled analysis of multicentre cohort studies of post-surgery circulating tumour DNA in early stage colorectal cancer. AGITG ASM 2019
4. Collens S, Ahearn E, Kuchal A, **Pritchard W**, **Whitehall V**, **Eastgate M**, **Wyld D**, **Burge M**. Trends in RAS testing in metastatic colorectal cancer cases in a real-world cohort study. AGITG ASM 2019
5. Chong C, Jalali A, Wong H, Loft M, Wrong R, Lee M, Gately L, Shapiro JD, Kosmider S, Tie J, Ananda S, Ma B, **Burge M**, Jennens R, Tran B, Lee B, Lim L, Dean A, Nott L, Gibbs P. Evolution of RAS mutation analysis in Australasian patients with metastatic colorectal cancer. AGITG ASM 2019
6. Cuda T, Riddell A, Lyons N, Rose S, **Wyld D**, **Clark D**, **Stevenson A**, Hooper J, Puttick S, **Thomas P**. Quantifying ⁶⁸Ga-PSMA-11 Uptake in Metastatic Colorectal Cancer: A Prospective PET Imaging Pilot Study. Australia and New Zealand Society of Nuclear Medicine, Annual Scientific Meeting
7. Abeysekara A, Fielder M, **Sommerville J**, **Thomas P**, Lin C, Al Najjar A, Barth M, **Sommerville R**. “Utility of Ultra High-Resolution MRI in Evaluating Perineural Spread in Head and Neck Cancers”. The Australian Society of Otolaryngology Head and Neck Surgery (ASOHSN), March 2019
8. Yang JH, **McMahon KL**, Copland DA, Byrne GJ, Mitchell LK, O'Sullivan JD, Dissanayaka NNW. *Identifying altered resting-state network in Parkinson's disease with mild cognitive impairment*. 23rd Annual Meeting of the Organisation for Human Brain Mapping, June 2019
9. Mosley PE, Structural connectivity and impulsivity after deep brain stimulation for Parkinson's disease, World Parkinson Congress, Kyoto Japan, 2019
10. Paproki A. et al. “Paediatric lung imaging – a new paradigm for cystic fibrosis management” – AEHRC colloquium abstract.

Other communications and outputs:

PAEDIATRIC A-T

The project (and MR images) has been presented at the bi-annual Ataxia-Telangiectasia clinic organized by Claire Wainwright (Queensland Children's Hospital). The images received positive from respiratory clinicians involved in AT research. The MRI protocol could be crucial in diagnosing lung disease in children with AT (manifested as anomalies similar to Cystic Fibrosis) given that these immunocompromised patients cannot get imaged using CT imaging. The results from the project have also been included in a report provided to the AT society.

HABIT-ILE: 10 News feature of HABIT-ILE (31/06/2019). <https://www.facebook.com/watch/?v=1205603096268506>.

ENVPWI: A DAAD grant application was submitted (outcome not yet known) which builds on the results of this study.



Back: Michael O'Sullivan (*HIRF Director*), Peta Gray (*HIRF Operations Manager*), Clare Berry (*HIRF Radiographer*), Katie McMahon (*HIRF Deputy-Director*), Kunal Oojorah (*Radiographer*)

Front: Hilarie Richards (*HIRF Administration Officer*), Tracey Burke (*Radiographer*)

JAMIESON TRAUMA INSTITUTE



Professor Michael Schuetz
Director

Jamieson Trauma Institute

The Jamieson Trauma Institute (JTI) is named after one of the country's most renowned and respected medical minds, Dr Kenneth Grant Jamieson. JTI's mission is to advance trauma care across Queensland and Australia through a collaboration of service and research partners and the integration of trauma services. While contributing to national and international evidence, the institute plays a key role in identification and implementation of solutions to the unique trauma issues facing Queensland.

JTI is supported by a joint funding venture between Metro North HHS and the Motor Accident Insurance Commission (MAIC) and is under the directorship of Professor Michael Schuetz. The institute is dedicated to increasing clinician-driven research and being co-located with a research-active teaching hospital is key to enhancing interactions with clinician researchers and fostering strong collaborative research partnerships. As an internationally recognised trauma and burns hospital, with strong ties to the Australian Defence Force (ADF) and with extensive research and education capacity, RBWH is a perfect fit for JTI, and will be fundamental to furthering trauma research and improvement.

Contributing to JTI's systems capability are representatives and honorary positions from Queensland University of Technology, The University of Queensland (UQ), Monash University, Royal Australian College of Surgeons, ADF UQ Military Medicine and Metro South HHS. JTI also has ongoing collaborations with Queensland Brain Institute (UQ), Herston Biofabrication Institute, the Herston Imaging Research Facility, rehabilitation services, research centres and our main funding partners, Metro North HHS (MNHHS) and MAIC.

In its second year, 2019 has seen the expansion of JTI capability with new staffing appointments and extensive collaborations resulting in a strategic research program aimed to deliver tangible outcomes. Priorities for JTI research are quality and data analytics, injury prevention, clinical trials, innovation, diagnostics, virtual and augmented reality, rehabilitation and outcome measurement, all with a focus on translation, education and training to improve patient care. This year, JTI established a new theme, Quality of Patient Care and Processes, with the goal of enhancing the efficiency of trauma management through research and innovation.

The Trauma Data Warehouse project, which aims to enable research to improve the care and outcomes of injured patients in Queensland, gained momentum this year thanks to JTI's key leadership roles. The data and analytics unit progressed research on linked trauma data, and presented analysis of trauma trends, costs and outcomes at several conferences and to key stakeholders. JTI researchers were involved in 27 collaborative clinical research projects, with 15 new initiatives in 2019 and four project completions. JTI has provided seed funding to 11 collaborative projects that will lay the groundwork for strong and ongoing collaborations with MNHHS, university and industry partners from 2020.

JTI is now delivering tangible clinical and policy benefits. The institute has established itself as the key contact for trauma-related Queensland Health Ministerial requests and briefings. It has also supported six federal government submissions using research and data to support safety regulatory initiatives related to quad bikes, personal mobility devices, such as e-scooters, and consumer products, and contributed to a literature review and consultation process to inform the National Injury Prevention Strategy development. Furthermore, research conducted at JTI has delivered a set of recommendations on pre-hospital retrieval processes for road trauma patients in Queensland.

JTI will continue to generate the evidence to support improvements in trauma care through engagement with our partners, stakeholders, end-users and patients.

JAMIESON TRAUMA INSTITUTE (CONT)

JTI THEMES:

- New: Quality of Care and Processes
- Data Quality and Analytics
- Diagnostics and Innovation
- Rehabilitation and Outcome Measurement
- Virtual Trauma Centre
- Clinical Trials
- Education and Training
- Injury Prevention.

Research highlights:

The Jamieson Trauma Institute (JTI) brings together multiple university, health service and industry partners to advance trauma prevention, research, systems, and clinical management with the goal to deliver optimal care for people who suffer a traumatic injury. The team includes experts in data analytics, injury epidemiology, rehabilitation, biostatistics and health economics, to develop a research program spanning the whole continuum of trauma care.

In 2019, its second year of activity, JTI continued to build momentum through partnerships, increased service capability and strategic planning. This year JTI's research program delivered a total of 24 peer-reviewed journal articles and several conference presentations. JTI continued to support the Trauma Data Warehouse development project, whose purpose is to integrate data across the continuum of trauma care in Queensland to facilitate system-level audits and support state-wide trauma quality improvement, inform trauma and injury prevention policy, and enable research to improve the care and outcomes of injured patients in Queensland. JTI trauma data analytics team continued accumulating and analysing linked trauma data to enable investigation of trauma trends, patterns, burden, costs, and outcomes. The team has forged a strong collaborative relationship with the Queensland Health Statistical Services Branch through various research projects. The Statistical Services Branch now regularly engages JTI to respond to all trauma-related Queensland Health Ministerial Requests and Briefings. Furthermore, the JTI trauma data analytics team were involved in four federal government submissions utilising research and data to support regulatory initiatives to improve the safety of quad bikes, personal mobility devices and consumer products. They also contributed to a literature review and consultation process to inform the National Injury Prevention Strategy development, led by the George Institute.

JTI has made significant advances in the research of traumatic brain injury (TBI), with two new projects and funding obtained for a third project commencing in 2020. Progress has also been made towards the initiation of a multicentre research project aimed at predicting patient outcomes after TBI, with promising discussions across research institutions and four major Queensland hospitals. Participation in the federal government's new Mission TBI (National TBI Committee) is key for the alignment of JTI's TBI program to national priorities. International activities include a multinational research grant awarded by the prestigious AO Foundation (world leaders in musculoskeletal surgical innovation), which will aim to improve worldwide trauma care systems through guidelines and advocacy. The establishment of the new Quality of Patient Care and Processes theme articulates JTI's engagement with research end users and service consumers.

A priority of the JTI has been seeking external funding and funding partners, with a total of nine successful research grant applications totalling \$8.8 million for use from 2020, and a JTI position funded by Clinical Excellence Queensland. JTI has provided seed funding to eleven collaborative projects that will lay the groundwork for further collaborations with MNHHS, university and industry partners in years to come.

Supervised Post-Graduate Research Students

Name <i>(RBWH staff in bold)</i>	Current Studies <i>(e.g. PhD, Masters etc.)</i> University <i>(duration)</i>	Research Project Title	Supervisors <i>(RBWH staff in bold)</i>
Adam Mahoney	PhD, UQ (2018-current)	The spatial epidemiology of trauma in Queensland	Michael Reade, Kirsten, Vallmuur, Cate Cameron, Kerrie Mengerson
Martha Druery	PhD, UQ (2014-current)	Psychosocial outcomes post-major burn injuries in adults – a longitudinal exploratory study	Jeff Lipman, Peter Newcombe, Cate Cameron
Erin Pitt	PhD, GU (2013-2019)	Early childhood food consumption and dietary patterns: the influence of socio-economic and demographic factors and the food environment	Tracy Comans, Cate Cameron, Lukar Thornton, Danielle Gallegos
Catherine Niven	PhD, QUT (2017-current)	Evaluating consumer product safety regulator responses to hazardous child products in Australia and USA to inform health and safety policies and improve the safety of Australian children	Kirsten Vallmuur, Ben Matthews
Kim Vuong	PhD, QUT (2015-2019)	Quads and Kids: Understanding parents' knowledge, attitudes and beliefs about safety and risks	Angela Watson, Ioni Lewis, Kirsten Vallmuur
Caroline Gillespie	PhD, QUT (2015-current)	Influencing Safety in Supply Chains: Challenges and Opportunities for Businesses	Kirsten Vallmuur, Narelle Haworth, Darren Wishart
Anthony Holley	PhD, UQ (2018-current)	Observational studies of critical care practice in the management of severe burns patients in Australia and New Zealand	Michael Reade, Jeremy Cohen, Jeff Lipman
Elissa Milford	PhD, UQ (2014-2019)	Effects on the glycocalyx of resuscitation with immunomodulatory drugs and cryopreserved blood products in preclinical and clinical trauma	Michael Reade, John-Paul Tung
Andrew Flint	PhD, Monash (2017-current)	Retrospective analysis of the effect of platelet transfusion on infection complications in critical illness	Michael Reade, Zoe McQuilten, Elizabeth Wood
Gabriela Simonova	PhD, UQ (2016-2019)	Effect of storage conditions and duration on the clinical effect of platelet and red blood cell transfusion	Michael Reade, John-Paul Tung, Melinda Dean
Phillipa Johnson	M Psych, JCUS (2018-2019)	Understanding the maternal mental health continuum	Maria Hennessy
Yi Ren Tan	M Psych, JCUS (2018-2019)	Understanding wellbeing in Singapore	Maria Hennessy, Peter Chew
Divyot Kaur	M Psych, JCUS (2018-current)	Comprehensive assessment of wellbeing in Australia	Maria Hennessy
Claire Moffatt	PhD, JCUA (2016-2019)	The development of a novel positive health framework to improve the understanding of recovery after chronic subdural haematoma	Maria Hennessy, Nerina Caltabiano, Laurence Marshman
Paul Lee-Archer	PhD, UQ (2019-current)	A randomised controlled trial of dexmedetomidine to lessen postoperative agitation in children undergoing elective surgery or radiology	Michael Reade

RBWH Research Staff with research roles, positions or appointments: e.g. Coordinators, Fellow, Adjunct and Honorary appointments

Name <i>(RBWH Staff in bold)</i>	Type of Position	FTE	Funding Source <i>(operational/ external/in-kind)</i>	Research Program	Affiliated University/ies
Michael Schuetz	Director, Chair of Trauma	0.5	External	Innovations, Diagnostics and Translation	QUT
Cate Cameron	Principal Research Fellow, Adjunct Associate Professor	0.6	Operational	Injury Prevention and Epidemiology	QUT
Maria Hennessy	Principal Research Fellow, Associate Professor in Clinical Psychology	1.0	Operational	Rehabilitation and Outcome Measurement	JCUS
David Douglas	Chair, Rehabilitation Medicine, Adjunct Associate Professor	0.5	Operational	Rehabilitation and Outcome Measurement	UQ

RBWH Research Staff with research roles, positions or appointments e.g. Coordinators, etc (cont)

Name <i>(RBWH Staff in bold)</i>	Type of Position	FTE	Funding Source <i>(operational/ external/in-kind)</i>	Research Program	Affiliated University/ies
Victoria McCreanor	Senior Researcher <i>(Health Economist)</i>	0.9	Operational	Quality and Data Analytics	QUT
Jacelle Warren	Statistical Analyst	0.8	Operational	Quality and Data Analytics	
Michael Reade	Clinical Representative <i>(Australian Defence Force)</i> , Professor of Military Medicine	0.1	Operational	Clinical Trials	UQ
Carl Lisec	Clinical Representative <i>(Burns and Trauma)</i> , Senior Lecturer	0.1	Operational	Burns and Trauma	UQ
Jason Brown	Clinical Representative <i>(Burns and Trauma)</i>	0.1	Operational	Burns and Trauma	
Paul Thomas	Clinical Representative <i>(Diagnostics)</i> , Associate Professor	0.25	Operational	Innovations, Diagnostics and Translation	UQ
Kevin Tetsworth	Clinical Representative <i>(Orthopaedics)</i> Adjunct Associate Professor	0.1	Operational	Orthopaedic Trauma	UQ
Beat Schmutz	Principal Research Fellow	0.5	Operational	Innovations, Diagnostics and Translation	QUT
Silvia Manzanero	Research Coordinator	1.0	Operational	n.a.	nil

Honorary Positions: e.g. Non-RBWH staff with research appointments at RBWH

Name	Position	FTE	Research Program	Affiliated University/ies
Cliff Pollard	Honorary Clinical Representative, Adjunct Associate Professor	Part-Time	Virtual Trauma Centre (VTC): Augmented Reality and Virtual Reality in Trauma Care	UQ
Kirsten Vallmuur	Honorary Principal Research Fellow, MAIC Principal Research Fellow	0.5	Quality and Data Analytics	QUT
Mark Midwinter	Honorary Clinical Representative, Professor of Clinical Anatomy	Part-Time	Virtual Trauma Centre (VTC): Augmented Reality and Virtual Reality in Trauma Care	UQ

Current RBWH Research Group / Department Led Research Activity

RBWH Research Group / Department Led Researchers <i>(RBWH staff in bold)</i>	Collaborative Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Maria Hennessy	Dion Lo <i>(JCU)</i> , Monique Kirk <i>(JCU)</i> , Laurence Marshman <i>(JCU, TTH)</i>	Use of positive psychology interventions to improve mental health outcomes after mild to moderate TBI
Maria Hennessy	Dion Lo <i>(JCU)</i> , Monique Kirk <i>(JCU)</i> , Laurence Marshman <i>(JCU, TTH)</i>	Evaluating the needs of people who have experienced TBI in regional areas
Maria Hennessy	Karen Sullivan <i>(QUT)</i> , Heidi Zeeman <i>(Griffith)</i> , Gary Mitchell <i>(ETC)</i> , Craig Winter <i>(Neurosurgery)</i> , Victoria McCreanor <i>(TI)</i> , Jacelle Warren <i>(TI)</i>	Positive health outcomes after traumatic brain injury
Maria Hennessy	Karen Sullivan <i>(QUT)</i> , Shaun Chandler <i>(QUT)</i>	Evaluating the needs of people who have experienced TBI in regional areas
Maria Hennessy	Michael Schuetz <i>(TI)</i> , Karen Sullivan <i>(QUT)</i> , Erwin Boettinger <i>(HPI, Germany)</i> , Roberto Dillon <i>(JCU)</i> , Jason McMillen <i>(Neurosurgery)</i>	Digital health markers to predict emergence from PTA
Maria Hennessy	Laurence Marshman <i>(JCU, TTH)</i> , Jessica McLellan <i>(JCU)</i> , Lorryn Delle Baite <i>(UQ)</i>	Influence of opioids on PTA assessment
Maria Hennessy	Laurence Marshman <i>(JCU, TTH)</i> , Lorryn Delle Baite <i>(UQ)</i>	Novel cognitive and behavioural assessment of PTA
Maria Hennessy	Cate Cameron <i>(TI)</i> , Victoria McCreanor <i>(TI)</i> , Jacelle Warren <i>(TI)</i> , Kirsten Vallmuur <i>(TI)</i>	Epidemiology of traumatic brain injury in Queensland

Current RBWH Research Group / Department Led Research Activity *(cont)*

RBWH Research Group / Department Led Researchers <i>(RBWH staff in bold)</i>	Collaborative Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Kirsten Vallmuur	Matthew Hope <i>(PAH)</i> , Ben Beck <i>(Monash)</i> , Victoria McCreanor <i>(JT)</i> , Gary Mitchell <i>(ETC)</i> , Rob Eley <i>(PAH)</i> , Shefta Huda <i>(Logan)</i> , Cate Cameron <i>(JT)</i> , Jacelle Warren <i>(JT)</i>	Personal mobility device injuries: observational study using data from Brisbane
Cate Cameron	Jacobus Ungerer <i>(Pathology)</i> , Kirsten Vallmuur <i>(JT)</i> , Jacelle Warren <i>(JT)</i> , Victoria McCreanor <i>(JT)</i> , Cliff Pollard <i>(JT)</i> , Michael Schuetz <i>(JT)</i> , Tegwen Howell <i>(Consultant)</i> , Gary Mitchell <i>(ETC)</i>	Alcohol and injury: Prevalence study at RBWH ED
Cate Cameron	Bill Loveday <i>(MRQ)</i> , Kirsten Vallmuur <i>(JT)</i> , Victoria McCreanor <i>(JT)</i> , Melanie Proper <i>(MDPC)</i> , Jacelle Warren <i>(JT)</i> , Cliff Pollard <i>(JT)</i> , Nick Graves <i>(QUT)</i>	Prevalence and impact of opioid use pre- and post-trauma in Queensland: population-based data linkage study
Cate Cameron	Matthew Hope <i>(PAH)</i> , Victoria McCreanor <i>(JT)</i> , Jacelle Warren <i>(JT)</i> , Kirsten Vallmuur <i>(JT)</i> , Kevin Tetworth <i>(JT)</i> , Cliff Pollard <i>(JT)</i>	The burden and cost of pelvic and lower extremity orthopaedic injuries from land transport crashes in Queensland
Cate Cameron	Jacelle Warren <i>(JT)</i> , Michael Muller <i>(Burns)</i> , Michael Rudd <i>(Trauma Service)</i>	Epidemiology of burns patients admitted to the state-wide Adults Burns Service in Queensland: A 10year review
Kirsten Vallmuur	Angela Watson <i>(QUT)</i> , Paul Taylor <i>(MAIC)</i> , Victoria McCreanor <i>(JT)</i> , Cate Cameron <i>(JT)</i> , Jacelle Warren <i>(JT)</i>	An examination of the quality of injury data and patterns, trends and burden of injury for informing establishment of a statewide trauma data warehouse
Kirsten Vallmuur	Angela Watson <i>(QUT)</i> , Chris Uber <i>(UQ)</i> , Belinda Gabbe <i>(Monash)</i> , James Harrison <i>(Flinders)</i> , Son Ngheim <i>(Griffith)</i> , Cate Cameron <i>(JT)</i> , Jacelle Warren <i>(JT)</i> , Victoria McCreanor <i>(JT)</i>	Evaluation of ICD-10-AM based injury severity estimation models
Kirsten Vallmuur	Angela Watson <i>(QUT)</i> , Paul Taylor <i>(MAIC)</i> , Michael Clacher <i>(QLD Treasury)</i> , Sebastian Bielen <i>(OIR)</i> , Andrew Currie <i>(WorkCover)</i> , Cate Cameron <i>(JT)</i> , Jacelle Warren <i>(JT)</i> , Victoria McCreanor <i>(JT)</i>	Feasibility, requirements, and value of data linkage of motor vehicle accident compensation, workers compensation and health data in Queensland
Cate Cameron	Maura Desmond <i>(P.A.R.T.Y.)</i> , Michael Rudd <i>(Trauma Service)</i> , Cliff Pollard <i>(JT)</i> , Kerriane Watt <i>(ICU)</i>	A retrospective analysis of data collected from the P.A.R.T.Y. (Prevent Alcohol and Risk-Related Trauma in Youth) program 2010-2018
Michael Reade	Denese Marks <i>(Red Cross)</i> , Laurence Weinberg <i>(Austin Health)</i> , David Irving <i>(Red Cross)</i> , Zoe McQuilten <i>(Monash)</i> , Craig French <i>(Uni Melb)</i> , Alistair Royle <i>(RMH)</i> , Paul Bannon <i>(RPA)</i> , Lacey Johnson <i>(Red Cross)</i> , David Gattas <i>(USyd)</i>	A phase III multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding (The Cryopreserved vs. Liquid Platelets trial: CLIP-II)
Victoria McCreanor	Christopher Smith <i>(Physiotherapy)</i> , Greg Kneebone <i>(oapl)</i> , Jerry van de Pol <i>(Orthopaedics)</i> , Mark Cruickshank <i>(Physiotherapy)</i> , Michael Schuetz , Peter Slattery <i>(Rehabilitation Engineering)</i> , Stefan Geiselbrechtinger <i>(OPED)</i> , Venerina Johnston <i>(UQ)</i>	Streamlining aftercare for ankle fractures using digital innovation

Collaborative Research Activity involving RBWH Research Group / Department

Collaborative Led Researchers	RBWH Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Robert Andrews <i>(QUT)</i>	Moe Thandar Wynn <i>(QUT)</i> , Kirsten Vallmuur <i>(JT)</i> , Arthur ter Hofstede <i>(QUT)</i> , Stephen Rashford <i>(QAS)</i> , Emma Bosley <i>(QAS)</i> , Mark Elcock <i>(RSQ)</i>	Identifying pre-hospital retrieval processes for road trauma patients in Queensland
Deborah Theodoros <i>(UQ)</i> , Louise Cahill <i>(UQ)</i>	Jacelle Warren <i>(JT)</i> , Cate Cameron <i>(JT)</i> , Kirsten Vallmuur <i>(JT)</i>	Distribution and type of inpatient allied health services provided to patients following road traffic crashes across Queensland
David Liu <i>(UQ)</i>	Jason Pincus <i>(ICU)</i> , Elizabeth Hallt <i>(RBWH)</i> , Michael Reade <i>(JT)</i>	Clonidine at Low dosage postoperatively to Nocturnally Enhance Sleep (CLONES) phase II pilot trial
Stephen Bernard <i>(Monash)</i>	Michael Reade <i>(JT)</i> , Biswadev Mitra <i>(Monash)</i> , Russell Gruen <i>(ANU)</i> , Dashiel Gantner <i>(Alfred)</i> , Brian Burns <i>(USyd)</i> , Zsolt Balogh <i>(Uni Newcastle)</i>	Pre-hospital anti-fibrinolytics for traumatic coagulopathy and haemorrhage-2 (The PATCH2 Study)

Collaborative Research Activity involving RBWH Research Group / Department (cont)

Collaborative Led Researchers	RBWH Researchers and Others <i>(RBWH staff in bold)</i>	Research Project Title
Gary Mitchell (ETC)	Cliff Pollard (JTI), Fatima Nasrallah (UQ), Michael O'Sullivan (UQ), Jason Ross (CSIRO), Louise Cullen (ETC), Jack Taylor (ETC), Nathan Brown (ETC)	The sensitivity and specificity of brain-origin circulating cell free DNA (ccfDNA) for the diagnosis of concussion and prediction of intracranial injuries
Peter Slattery <i>(Rehab Engineering)</i>	David Douglas (JTI), Silvia Manzanero (JTI), Oliver Mason (Rehab Engineering), Gunjeet Minhas (Pain Service), Sean Powell (QUT), David Forrestal (QUT), Jacob Skewes (QUT), Mia Woodruff (QUT), Carey Bayliss (MSHHS Spinal Outreach Team), Lucy Maugham (MSHHS Spinal Outreach team), Shailendra Maharaj (QCH), Kristen Morris (Medical Aids Subsidy Scheme)	Personalised 3D printed reactive cushions for pressure wound management
Mathilde Desselle (QUT)	Paul Gray (Pain Service), Elizabeth Vujcich (Burns), Jason Brown (Burns)	Virtual Reality for Burn/Trauma Care
Ashish Wadhawan (Orthopaedics)	Michael Schuetz (JTI), Kevin Tetsworth (JTI), Beat Schmutz (JTI), Pierrick Bourgeat (CSIRO), Jurgen Fripp (CSIRO)	Development of an Artificial Intelligence screening system to identify patients requiring a CT scan following distal radius fractures

Research Awards and Achievements

Recipient <i>(RBWH staff in bold)</i>	Award	Event
Milford EM, Reade MC (JTI)	Felicity Hawker Prize for the best presentation by an Advanced Trainee of the College of Intensive Care Medicine of Australia and New Zealand for "Characterisation of the prolonged time course of syndecan-1 blood concentration as a marker of the endotheliopathy of trauma: a pilot cohort study."	College of Intensive Care Medicine of Australia and New Zealand Annual Scientific Meeting, Cairns, 2019

Research Grants

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Cameron CM , Loveday B, Vallmuur K , Graves N, Proper M, Warren J , Bradford N, Carter H, Pollard C	JTI, Multidisciplinary Pain Centre	Opioid use in Queensland trauma patients: population-based data linkage study	RBWH and RBWH Foundation	\$36,809	\$36,809	2019
Mitchell R, Cameron CM	JTI	Impact of chronic health conditions and injury on school performance and health outcomes of children: pilot study	Philanthropic Funds	\$77,639	\$77,639	2019
Patel B, Rudd M, Pollard C	JTI, Trauma Service	Management of Splenic Injuries in Queensland: Retrospective trend analysis over 5 years and one-year prospective evaluation of clinical practice guideline implementation	2019 MAIC-RCS Trauma Scholarship	\$66,000	\$66,000	2019
Hunter K, Keay L, Lukaszyk C, Brown J, Clapham K, Curtis K, Ivers R, Cullen P, Vallmuur K , Scott D, Mitchell R	JTI	National Injury Prevention Strategy – Literature Review	Australian Government – Department of Health	\$131,756	\$131,756	2019
Brown J , Zephania Tyack, Steven McPhail, Michelle Donovan	JTI, Burns	Feasibility, acceptability, costs and preliminary effects of an innovative ablative fractional CO2 laser service for people with burns scars	RBWH and RBWH Foundation	\$39,944	\$39,944	2019
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	ICU, JTI	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	\$700,000	2019-2024

Research Grants *(cont)*

Investigators <i>(RBWH staff in bold)</i>	RBWH Research Groups / Departments	Project Title	Granting Body	Total of funds awarded	Funds used in 2019	Years
Reade MC , Marks D, Weinberg L, Irving D, McQuilten Z, French C, Royse A, Bannon P, Johnson L, Gattas D	ICU, JTI	A phase III multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding (The Cryopreserved vs. Liquid Platelets trial: CLIP-I)	NHMRC	\$1.8 million	\$450,000	2019-2023
Bernard S, Mitra B, Gruen R, Gantner D, Reade MC , Burns B, Balogh Z	ETC, ICU, JTI	Pre-hospital anti-fibrinolytics for traumatic coagulopathy and haemorrhage-2 (The PATCH2 Study)	NHMRC	\$656,000	\$328,000	2019-2020

2019 Research Publications

Journal Articles

- Andrews R, Wynn MT, **Vallmuur K**, Hofstede AHM, Bosley E, Elcock M. Leveraging Data Quality to Better Prepare for Process Mining: An Approach Illustrated Through Analysing Road Trauma Pre-Hospital Retrieval and Transport Processes in Queensland. *International Journal of Environmental Research and Public Health*. 2019. <https://doi.org/10.3390/ijerphxx010000>
- Butson B, Pearson A, & **Reade MC**. Project Wantok Haus Sik. *Journal of Military and Veterans' Health*. 2019;27(4):67-68
- Curtis K, Gabbe B, Shaban RZ, Nahidi S, Pollard C, **Vallmuur K**, ... Christey G. Priorities for trauma quality improvement and registry use in Australia and New Zealand. *Injury*. 2019. <https://doi:10.1016/j.injury.2019.09.033>
- Dhanani J, Roberts J, **Reade MC**. Nebulized tranexamic acid for hemoptysis associated with submassive pulmonary embolism. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*. 2019. <http://doi.org/10.1089/jamp.2019.1534>
- Frossard L, Jones MWM, Stewart I, Leggat PA, **Schuetz M**, Langton C. Kinetics of lower limb prosthesis: automated detection of vertical loading rate. *Prosthesis*. 2019;1(1)16-28
- Holley AD, Reade MC**, Lipman J, Delaney A, Udy A, Lee R, ... Cohen J. Survey of critical care practice in Australian and New Zealand burn referral centres. *Critical Care and Resuscitation*. 2019;21(4):303-304
- Irving A, Higgins A, Ady B, Bellomo R, Cooper D J, French C, ... McQuilten ZK (inc. **Reade MC**). Fresh Red Cells for Transfusion in Critically Ill Adults: An Economic Evaluation of the Standard Issue Transfusion Versus Fresher Red-Cell Use in Intensive Care (TRANSFUSE) Clinical Trial. *Critical Care Medicine*. 2019;47(7):e572-e579. <https://doi:10.1097/ccm.0000000000003781>
- Karbysheva S, Butini ME, Di Luca M, Winkler T, **Schuetz M**, Trampuz A. Chemical biofilm dislodgement with chelating and reducing agents in comparison to sonication: implications for the diagnosis of implant associated infection. *bioRxiv*. 2019. <https://doi.org/10.1101/604637>
- Milford EM and **Reade MC**. Resuscitation fluid choices to preserve the endothelial glycocalyx. *Critical Care*. 2019. <https://doi.org/10.1186/s13054-019-2369-x>
- Moffatt C, **Hennessey MJ**, Marshman LAG, Manickam A. Long-term health outcomes after chronic subdural haematoma. *Journal of Clinical Neuroscience*. 2019. <https://doi.org/10.1016/j.jocn.2019.04.039>
- Niven CM, Mathews B, Harrison JE, & **Vallmuur K**. Hazardous children's products on the Australian and US market 2011-2017: an empirical analysis of child-related product safety recalls. *Injury Prevention*. 2019. <https://doi:10.1136/injuryprev-2019-043267>
- Reade MC**. Addressing high practice variability in reported management of burns. *Critical Care and Resuscitation*. 2019;21(4):233-235
- Reade MC**. Delirium: one size does not fit all. *Internal Medicine Journal*. 2019;49(12):1469-1471. <https://doi:10.1111/imj.14656>
- Reade MC**. How urgent is an urgent craniotomy in the deployed military context? A retrospective observational study. *Journal of Military and Veterans' Health*. 2019;27(4):48-49
- Reade MC**. Prehospital antibiotics – a narrative review and rationale to change ADF practice. *Journal of Military and Veterans' Health*. 2019;27(4):66
- Reade MC**, Marks DC, Bellomo R, Deans R, Faulke DJ, Fraser JF, Gattas DJ, Holley AD, Irving DO, Johnson L, Pearse BL, Royse AG, Wong J. A randomized, controlled pilot clinical trial of cryopreserved platelets for perioperative surgical bleeding: The CLIP-I trial. *Transfusion*. 2019. <https://doi.org/10.1111/trf.15423>
- Russow G, **Schuetz M**, Berner A. Locking Plate Osteosynthesis. *OP-Journal*. 2019. <https://doi.org/10.1055/a-0755-0171>
- Shehabi Y, Howe BD, Bellomo R, Arabi YM, Bailey M, Bass FE, Kadiman S, MacArthur C, Murray L, **Reade MC**, ... Webb SA. Early Sedation with Dexmedetomidine in Critically Ill Patients. *The New England Journal of Medicine*. 2019;380(26):2506-2517. <https://doi:10.1056/NEJMoa1904710>
- Simonova G, Dean MM, **Reade MC** & Tung J-P. Characterization Of Immunomodulatory Mediators In Conventional And Cryopreserved Sheep Platelet Concentrates. *ISBT Meeting, Basel. Vox Sanguinis*. 2019;114(Suppl 1):226. <https://doi.org/10.1111/vox.12792>

Journal Articles (cont)

20. Simonova G, Dean MM, **Reade MC** & Tung, JP (2019). Characterization of immunomodulatory mediators in sheep packed red blood cells: development of a robust transfusion model. ISBT Meeting, Basel. Vox Sanguinis. 2019;114(Suppl 1):226. <https://doi.org/10.1111/vox.12792>
21. Simonova G, Dean MM, **Reade MC** & Tung J-P (2019). Towards understanding of post-transfusion immunomodulation: sheep immune responses to lipopolysaccharide. ISBT Meeting, Basel. Vox Sanguinis. 2019;114(Suppl 1):226. <https://doi.org/10.1111/vox.12792>
22. Simonova G, Temple F, Johnson L, Marks D, **Reade MC** & Tung J-P, The Storage Mode of Sheep Platelet Concentrates Differentially Affects Microparticle Formation. ISBT Meeting, Basel. Vox Sanguinis. 2019;114 (Suppl 1):111. <https://doi.org/10.1111/vox.12792>
23. Smits E, Brakenridge C, Gane E, **Warren J**, Heron-Delaney M, Kenardy J & Johnston V. Identifying risk of poor physical and mental health recovery following a road traffic crash: An industry-specific screening tool. Accident Analysis & Prevention. 2019;132:105280. <https://doi.org/10.1016/j.aap.2019.105280>
24. Zenzes M, Bortel EL, Fratzl P, Mundlos S, **Schuetz M**, Schmidt H, Duda GN, Witte F, Zaslansky P. Normal trabecular vertebral bone is formed via rapid transformation of mineralized spicules: A high-resolution 3D ex-vivo murine study. Acta Biomaterialia. 2019. <https://doi.org/10.1016/j.actbio.2018.12.050>

2019 Conference Presentations – Invited Speaker, Oral and Poster

Invited Speakers

1. **Schuetz M**. Working together: RACS QTC, STCN, JTI. RBWH Trauma Symposium, Brisbane, 22 February 2019
2. **Reade M**. How a military hospital prepares for a mass casualty event. ISICEM, Brussels, 19-22 March 2019
3. **Reade M**. Is clonidine just as good as dexmedetomidine? ISICEM, Brussels, 19-22 March 2019
4. **Reade M**. Prehospital antibiotic administration. ISICEM, Brussels, 19-22 March 2019
5. **Reade M**. How to get patients to sleep? ISICEM, Brussels, 19-22 March 2019
6. **Reade M**. Nerve agents: saving the patient and protecting the staff. ISICEM, Brussels, 19-22 March 2019
7. **Reade M**. How urgent is an urgent craniotomy? ISICEM, Brussels, 19-22 March 2019
8. **Brown J**. Biofabrication in Burns Treatment. 2019 Herston Biofabrication Institute Conference, Brisbane, 22 March 2019
9. **Tetsworth K**. Biofabrication in Orthopaedics. 2019 Herston Biofabrication Institute Conference, Brisbane, 22 March 2019
10. **Midwinter M**. Augmented Reality and Virtual Reality in Clinical Practice. 2019 Herston Biofabrication Institute Conference, Brisbane, 22 March 2019
11. **Reade M**. Defence Force transfusion innovations. ANZCA ASM, Kuala Lumpur, Malaysia, 1 May 2019
12. **Lisec C**. Trauma Update: Burns. QLD Autumn Symposium, Brisbane, 23 May 2019
13. **Schuetz M**. Improving the clinical outcome of peri-implant infections through multidisciplinary management and clinical guidelines. AOTP Scientific Congress, Taipei, Taiwan, 25 May 2019
14. **Brown J**. Laser for Burns Scar/Novosorb BTM. 6th National Burns Survivors Forum, Sunshine Coast, 30 May 2019
15. **Reade M**. Trials on the horizon. 2019 College of Intensive Care Medicine Annual Scientific Meeting, Cairns, 6-9 June 2019
16. **Reade M**. Blast. 2019 College of Intensive Care Medicine Annual Scientific Meeting, Cairns, 6-9 June 2019
17. **Vallmuur K**. Queensland Trauma Data Warehouse: Reading between the lines. 2019 College of Intensive Care Medicine Annual Scientific Meeting, Cairns, 6 - 9 June 2019
18. **Schuetz M**. Quality of Life, Pain and Mental Health Outcomes. IMPACT 2019, Brisbane. 10 Sep 2019
19. **Reade MC**. Military critical care. World Congress of Intensive Care, Melbourne. 14-18 Oct 2019
20. **Pollard C**, Best D, Faulkner B, Midwinter M, Phillips J, Poyser S, Santamauro C, Shuker M. Using Augmented Reality to improve Point-of-Care Support for Rural Generalists. Rural Medicine Australia 2019, Gold Coast. 26 Oct 2019
21. **Vallmuur K**. The value of linked health data for enhancing CTP scheme insights - Early findings. Rehabilitation Industry Group Meeting, Brisbane. 2 Dec 2019.

Oral Presentations

1. **Brown J** & Black N. Initial Experience and Cost Implications with a Novel Biodegradable Temporising Membrane (BTM) in Major Burns over 40%. JAB Burns Symposium, Maui, 5 February 2019
2. **Brown J** & Black N. Self-Immolation: A 20 Year Experience of Severe Self-Inflicted Burns in a State-Wide, Tertiary, Australian Burns Service. JAB Burns Symposium, Maui, 5 February 2019
3. Andrews R, Wynn M, ter Hofstede A, **Vallmuur K**, Bosley E, Rashford S, Elcock M. Getting There: Evidence-based Decision-making in Road Trauma Pre-hospital Transport and Care in Queensland. WADEM Congress on Disaster and Emergency Medicine, Brisbane, 7-10 May 2019
4. Santamauro C, McCurdie T, **Pollard C**, Shuker M. Exploring the Feasibility of Wearable Technologies to Provide Interactive Telepresence Sub-Specialist Support to Remote Clinicians Treating Patients with Traumatic Injuries. WADEM Congress on Disaster and Emergency Medicine, Brisbane, 7-10 May 2019

Oral Presentations (cont)

5. **Schuetz M.** International Trauma Services. WADEM Congress on Disaster and Emergency Medicine, Brisbane, 7-10 May 2019
6. **Reade M.** Does the Golden Hour Exist? WADEM Congress on Disaster and Emergency Medicine, Brisbane, 7-10 May 2019
7. Milford E, **Reade M.** Characterisation of the prolonged time course of syndecan-1 blood concentration as a marker of the endotheliopathy of trauma: a pilot cohort study. 2019 College of Intensive Care Medicine Annual Scientific Meeting, Cairns, 6-9 June 2019
8. **Reade MC.** Coagulopathy and fibrinolysis in trauma. Australian and New Zealand College of Veterinary Science Annual Scientific Conference, Gold Coast. 5 Jul 2019
9. **Reade MC.** Cryopreserved platelets in trauma. XXVII Congress of the International Society on Thrombosis and Haemostasis, Melbourne. 17 Jul 2019
10. **Reade MC.** Innovations in ADF transfusion practice: frozen platelets, freeze-dried plasma and whole blood. Australian Institute of Medical Scientists (AIMS) and the New Zealand Institute of Medical Laboratory Science (NZIMLS) Annual Scientific Congress, Gold Coast. 17 Sep 2019
11. Patel B, **Pollard C**, Wall D, Bain R, Davies S, Mott N, Grieve J, Rashid M, Ericksen D, Wullschlegler M, Rudd M. Outcomes of Splenic Injuries. Australasian Research Management Society, Adelaide. 17-20 Sep 2019
12. **Reade MC.** Sedation to avoid delirium – possible? World Congress of Intensive Care, Melbourne. 14-18 Oct 2019
13. Smits E, Brakenridge C, Gane E, **Warren J**, Heron-Delaney M, Kenardy J, Johnston V. A tool to identify risk of non-return to work following a road traffic crash: a screening tool. Transform 2019: Physiotherapy Conference, Adelaide, 19 Oct 2019
14. **Vallmuur K.** Responsive surveillance for prevention policy: A case study of the lime scooter trial in Brisbane. 14th Australasian Injury Prevention and Safety Promotion Conference, Brisbane. 25 Nov 2019
15. **Cameron C**, **Vallmuur K**, Tippet V, **Pollard C**, **Schuetz M**. Queensland Injury Prevention Knowledge Hub (QIP-KHub). 14th Australasian Injury Prevention and Safety Promotion Conference, Brisbane. 25-27 Nov 2019
16. **McCreanor V**, Hope M, **Cameron C**, **Warren J**, **Vallmuur K**, **Pollard C**. The burden and cost of pelvic and lower limb orthopaedic injuries from land transport crashes in Queensland. 14th Australasian Injury Prevention and Safety Promotion Conference, Brisbane. 25-27 Nov 2019
17. **McCreanor V**, **Warren J**, **Cameron C**, **Vallmuur K**, **Pollard C**, Hope M. Burden and cost of pelvic and lower limb injuries from road traffic crashes, in Queensland. 11th Health Services and Policy Research Conference, Auckland, NZ. 4-6 Dec 2019
18. **Reade MC.** Optimizing the management of pain, agitation/sedation and delirium throughout the ICU stay. Shaping Critical Care conference, Taipei, Taiwan. 2019
19. Flint A, McQuilten Z, Smith J, Bailey M, **Reade MC.** Predictive model for platelet transfusion in patients with acute haemorrhage. Military Health Services Research Symposium, Orlando, Florida, USA. 2019
20. **Reade MC.** Is the golden hour still relevant on the modern battlefield? United States Central Command Medical Co-operation and Exchange meeting, Tampa, Florida. 2019.

Poster Presentations

1. Devlin M, Williamson F, Wall D, Daelman T, Rudd M, Lipp T, Hamilton A, Handy M, Ross J, Jackman K, Grant K, Pearce S, Smith R, Lewis J, Vohland J, Grant A, Zheng O, Ashurst C, Klan M, Hacking C, Cleland P, **Warren J**, **Cameron C**. Performing the tertiary survey: A comparison of medical officer and trauma nurse. Poster presented at RBWH Trauma Symposium, Brisbane, 22 February 2019
2. Sharpless M, **Reade MC.** How long is too long? Identifying the culprit drug in anaphylaxis by timing of exposure – case report and literature review. ANZCA ASM, Kuala Lumpur, Malaysia, 1 May 2019
3. **Lisec C** & Sivasuthan G. Imaging in the diagnosis of thoracoabdominal penetrating injuries. RACS Scientific Meeting, Bangkok, 6-10 May 2019
4. **Lisec C** & Sivasuthan G. Epidemiology of penetrating thoracoabdominal trauma. RACS Scientific Meeting, Bangkok, 6-10 May 2019
5. **Hennessy M**, Stone K. Understanding the search for meaning in life: relationships with mental health, wellbeing and level of presence. 6th World Congress of Positive Psychology, Melbourne. 18-21 Jul 2019
6. **Warren J**, Theodoros D, **Vallmuur K**, **Cameron C**, Cahill L, Sterling M, Johnston V. Distribution and type of inpatient allied health services for people following road traffic crashes across Queensland – where are the gaps? National Allied Health Conference, Brisbane. 5-8 Aug 2019
7. **McCreanor V**, **Cameron C**, **Warren J**, **Vallmuur K**, **Pollard C**. The burden and cost of injury-related admissions in Queensland. Trauma 2019, Sydney. 4-6 Oct 2019
8. **Reade MC.** PATCH trial. College of Intensive Care Medicine of Australia and New Zealand Annual Scientific Meeting, Cairns. 2019
9. **Reade MC.** Challenges and opportunities in delivering deployable healthcare to the next war. NSW Defence Regional Health Advisory Group Annual Conference, Sydney. 2019
10. **Reade MC**, Bushby T, Davies K, Beresford-Jones P, Palling J, Evans N, Hasse K, Maher G. Prolonged Field Care. Combined Army Health Corps National Conference, Brisbane. 2019.

Other communications and outputs:

GOVERNMENT SUBMISSIONS

Vallmuur K, Hope M, Beck B. Response to ACCC Quad bike safety standard exposure draft. July 2019. Response developed for the ACCC consultation.

Hunter K, Bestman A., Elkington J., Anderst A., Scott D, Cullen P, Mitchell R, Clapham K, Killian J, Curtis K, Beck B, **Vallmuur K**, Lukacszyk C, Ivers RQ, Keay L, Brown J. National Injury Prevention Strategy – Literature Review. July 2019. Report developed for the Australian Government Department of Health.

Niven C, **Vallmuur K**, Barker R, Warren-Wright K, Teerds S, Strachan D, Hope M, Beck B. Collaborative Response to the Consultation Regulatory Impact Statement (CRIS): Improving the Effectiveness of the Consumer Product Safety System. Nov 2019. Response developed for the Australian Competition and Consumer Commission consultation.

Vallmuur K, Hope M, Beck B. Response to NTC Collaborative Response to the Consultation Regulatory Impact Statement (CRIS): Barriers to the safe use of personal mobility devices. Dec 2019. Response developed for the National Transport Commission consultation.

REPORTS

Harrison JE, Watson A, Vallmuur K. A National Approach to Measuring Non-fatal Crash Outcomes. Austroads Research Report AP-R599-19. 2019. <https://austroads.com.au/publications/road-safety/ap-r599-19>.

PARLIAMENTARY BRIEFING NOTES

Six Parliamentary Briefing Notes (hot issues) prepared for Minister for Health for AIHW embargoed reports on:

1. Pedal cyclist deaths and hospitalisations, 1999-00 to 2015-16
2. Injury of Aboriginal and Torres Strait Islander people due to transport 2010-11 to 2014-15
3. Mobility scooter-related injuries and deaths
4. Hospitalised injury and socioeconomic influence in Australia 2015-16
5. Injury mortality and socioeconomic influence in Australia 2016-16
6. Trends in injury deaths Australia 1999-00 to 2016-17.



Left – Right Rachael Brown, Jacelle Warren, Sophie Trenery, Rosalind Wendt, Michael Schuetz, Silvia Manzanero, Cate Cameron, Nathan Valentine, Kirsten Vallmuur, Dihan Aponso, Shehera Banu, Beat Schmutz, Victoria McCreanor, Brett Droder, Lisa Whittaker.