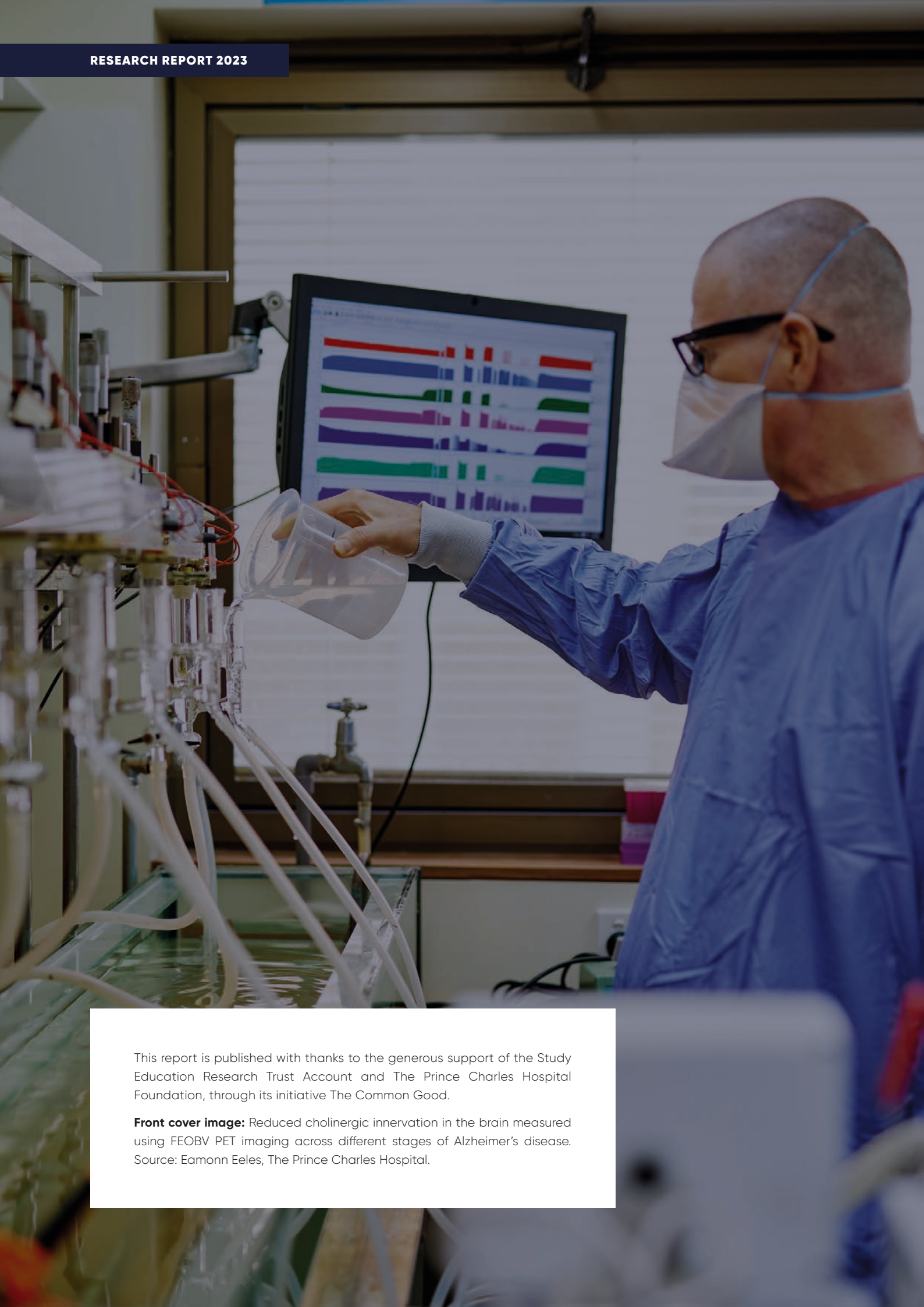


The Prince Charles Hospital

Research Report 2023



This report is published with thanks to the generous support of the Study Education Research Trust Account and The Prince Charles Hospital Foundation, through its initiative The Common Good.

Front cover image: Reduced cholinergic innervation in the brain measured using FEOBV PET imaging across different stages of Alzheimer's disease. Source: Eamonn Eeles, The Prince Charles Hospital.

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Key Statistics

PHDS AWARDED

- Alana Campbell** - Mapping the Natural Recovery of Cognition in Acute Stroke Using Serial Computerised Cognitive Assessment.
- Chanika Alahakoon** - Secondary prevention of diabetic foot disease.
- Lisa Jurak** - Using Proteomics to understand the mechanisms of asthma exacerbations and how macrolides can reduce exacerbations.
- Martin Hajek** - Exploring the relationship between trunk extensor morphology and activation with lower back pain and lower limb injury in sport.

Silver Heinsar - An experimental ovine model of cardiogenic shock comparing the effect of pulsatile- to continuous-flow VA-ECMO (A comprehensive Pre-clinical evaluation of Pulsatile-flow VA-ECMO).

MASTERS AWARDED: 1

HONOURS AWARDED: 5

STUDENTS



- PhD: 62
- Masters: 12
- Honours: 5
- Medical Students: 3

PUBLICATIONS



259 articles and book chapters

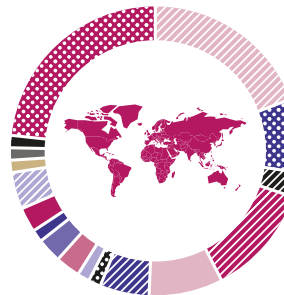
PRESENTATIONS



Australia

- Brisbane: 32
- Adelaide: 19
- Cairns: 6
- Canberra: 1
- Darwin: 2
- Gold Coast: 5
- Hobart: 1
- Melbourne: 13
- Perth: 2
- Sunshine Coast: 5
- Sydney: 5

TOTAL: 91



International

- New Zealand: 17
- Austria: 1
- Brazil: 1
- China: 1
- England: 3
- France: 2
- Hong Kong: 1
- Ireland: 2
- Italy: 2
- Japan: 1
- Jordan: 1
- Netherlands: 4
- Norway: 6
- Singapore: 9
- South Korea: 2
- United States: 6
- Virtual: 14

TOTAL: 59

★ OTHER POINTS OF INTEREST

★ **The Adult and Children's Emergency Research Group** is in a capacity-building stage, aiming to embed research as a core business and a natural extension of day-to-day service provision. They had nine active projects in 2023, with another four confirmed to begin in 2024.

★ **Professor Norman Morris (Allied Health Research Collaborative)** published an updated Cochrane review examining the role of exercise training in Pulmonary Hypertension, which was incorporated into the latest International Guidelines.

★ **The Nursing Research & Practice Development Centre's** pressure injury risk assessment tool for intensive care patients is now available in four languages and is affiliated with the World Federation of Critical Care Nurses.

★ **The Critical Care Research Group** presented findings at the International Society for Heart and Lung Transplantation Meeting, demonstrating that hypothermic machine perfusion can safely keep donated hearts alive outside the body for up to nine hours. Geographically, this is sufficient time to transport a donor heart anywhere within Australia and between Australia and New Zealand.

★ **The Health Services and Outcomes group** is addressing challenges of suboptimal safety and quality of healthcare by evaluating the true incidence of medication-related SAEs in Australia using national data, and developing novel and cost-effective methods for patient safety surveillance and prevention of the SAEs using statistical approaches and artificial intelligence (AI)-driven methods.

★ **Internal Medicine Services**, in collaboration with The Prince Charles Hospital Foundation, unveiled "Charlie's Village" and "Memory Lane" in 2023. Charlie's Village transformed the hospital's specialist dementia care unit's outdoor space to incorporate custom-built familiar facades such as a hair salon, bakery and café, general store, hotel, and post office. Memory Lane aims to encourage people to mobilise and reminisce in the hospital as they walk and look at old pictures of Brisbane and our community.

\$ ACTIVE GRANTS



- Equipment: \$721,366 (5)
- Project & Program Grants: \$9,954,655 (143)
- Capacity Building Grant: \$102,671 (3)
- Education Grant: \$22,911 (2)
- Industry Sponsored: \$1,028,627 (72)
- Scholarships & Fellowships: \$847,446 (21)

▶ **TOTAL: \$12,677,676 (246)**

\$ TCG GRANTS FUNDED



- Equipment: \$1,503,072 (12)
- Project and Program Support: \$1,786,467 (18)
- New Investigator: \$127,180 (13)
- PhD Scholarships: \$289,728 (3)
- Research Fellowships: \$1,150,000 (4)

▶ **TOTAL: \$4,856,447 (50)**

Awards

TPCH Staff Excellence Awards

- **A/Prof Peter Lazzarini**
Researcher of the Year
- **Michael Savage**
Rising Star of Research
- **Hollie Bendotti**
Highly Commended Rising Star of Research
- **Prof John Fraser**
Research Partnerships Award
- **Dr Bishwo Shrestha and Team**
Improving First Nations Health Award
- **Jenna Stonestreet**
Excellence in Performance Award
- **CCRG The Living Heart Project**
Innovation Award
- **Dr Manju Chandrasegaram**
Research Support Award
- **Dr Sara Winter**
Excellence in Integrated Care Award

TPCH Hour of Power Research Presentation Awards

- **Dr Jim Crowhurst**
Richard Slaughter Award for Best Clinical Presentation
- **Margaret Passmore**
Michael Ray Award for Best Basic Science/Translational Presentation
- **Thomas Georgeson**
Paul Zimmerman Award for Best New Investigator Presentation
- **Dr Keibun Liu**
People's Choice Award

Metro North HHS Research Excellence Awards

- **Professor John Fraser**
Researcher of the Year
- **Queensland Lung Transplant Service Research Laboratory**
Discovery and Innovation Award
- **Critical Care Research Group**
Highly Commended, Clinical Research Award
- **Thoracic Research Centre**
Research Implementation Award

- **Dr Mahesh Ramanan**
Research Support Award
- **Hollie Bendotti**
Finalist, Rising Star Award
- **Dr Sara Winter, Dr Tricia Rolls, Dr Irene Szollosi**
Finalists, Consumer Engagement Award
- **Meagan Gough, Kylie Bebel, Sandra Hookins, Amber Jones, Dr Hannah Gullo**
Finalists, Innovation Award

Other

- **Dr Nchafatso Obonyo**
Science Award, African Forty under 40 Award
- **Dr Nchafatso Obonyo**
African Professional of the Year, African Professionals of Australia
- **Dhayananth Kanagarajan**
Best Paper Award, Australian Conference on Computational Mechanics
- **Dr Irene Szollosi**
Best Poster in Sleep and Breathing/Other, Australasian Sleep Association
- **Dr Sara Winter**
Highly Commended, CAHRLI Local Awards Program
- **Trang Dang**
Clinical Trial Prize, Cardiac Society of Australia and New Zealand
- **Lauren Giudicatti**
CSANZ cardiac imaging prize winner, Cardiac Society of Australia and New Zealand
- **Dr Eamonn Eeles**
Best oral presentation, European Delirium Association
- **Prof Ian Yang**
Fellow of the European Respiratory Society (FERS), European Respiratory Society
- **Hollie Bendotti**
Faculty of Medicine Researcher Development Award, University of Queensland
- **Dr Jack Bell**
Adjunct Professor University of Iceland, Fragility Fracture Global Congress Norway
- **Taylor Sing**
Asia-Pacific ISMCS Young Investigator Award, International Society for Mechanical Circulatory Support
- **A/Prof Peter Lazzarini**
International Rising Star Award, International Symposium on the Diabetic Foot
- **A/Prof Peter Lazzarini**
International Best Publication of past four years, International Symposium on the Diabetic Foot
- **Kei Sato**
Best Presenter in Mechanical Circulatory Support, Japanese Society of Circulation Control in Medicine
- **Prof Ian Yang**
Lung Health Legend Award, Lung Foundation Australia
- **Bishwo Shrestha et al.**
Most Outstanding EMCR Oral Presentation Award (Public Health), Queensland Cardiovascular Research Network & Heart Foundation Australia
- **Daniel Sullivan**
Innovation and Sleep Science Communication Award, Sleep Health Foundation
- **Dr Faye Jordan**
2023 Medical Program Teaching Awards, The University of Queensland
- **Prof Ian Yang**
TSANZ 50th Anniversary Medal for Education and Training, Thoracic Society of Australia and New Zealand
- **QLTS Research Laboratory**
Finalist, Eureka Prize for Infectious Diseases Research, Australian Museum Eureka Prizes

Foreword

The commitment to improve outcomes for patients is inspiring.

The Prince Charles Hospital has a proud history of excellence in the delivery of health care, being home to many medical firsts in its 70 years of service to the community. This ability to advance health care practices is supported by research that can be translated into tangible health outcomes for our patients. Productive research requires great commitment and countless hours invested by many people. It is an admirable yet challenging endeavour that takes courage, perseverance and a vision to continually discover and ultimately give others a better quality of life.

In 2023, remarkable milestones were reached, and exciting progress was made across a range of research areas throughout the hospital. These achievements, born from incredible collective efforts, were accomplished while individuals and teams remained responsive to frontline demands. This Research Report proudly showcases some of our research community's most notable accomplishments—many of which are testament to the power of collaboration within the hospital and with universities, institutes, and other hospitals across the nation and the globe.

Allied health professionals were among the hard-working researchers making waves, with Associate Professor Peter Lazzarini recognised as TPCF Researcher of the Year in 2023 for his impactful research into Diabetes Foot Disease and the extent of its burden both nationally and globally, which is shaping care and guidelines. He was also awarded the prestigious 2023 International Rising Star award at the 9th International Symposium on the Diabetic Foot for his work.

At the helm of the Critical Care Research Group is Professor John Fraser, who was named Metro North Health Researcher of the Year 2023. Along with this well-deserved recognition, the group's *COVID-19 Critical Care Consortium* is now widely regarded as the world's largest

COVID-19 ICU database. Their breakthrough Living Heart Project, which extended the viability of donor hearts for transplant, also received an Innovation Award.

Other achievements across TPCF include the unveiling of "Charlie's Village" and "Memory Lane" by Internal Medicine Services, in collaboration with The Prince Charles Hospital Foundation. Both impactful projects encourage patient mobility and offer something to engage with cognitively.

In 2023, there were five PhDs, one Masters and five Honours awarded. We also recognise and celebrate the accomplishments of all our researchers through the publishing of 259 articles and book chapters.

The Prince Charles Hospital Foundation, through its initiative The Common Good, was proud to support and award 38 research grants, including 2 PhD Scholarships, 2 Research Fellowships, 13 New Investigator Grants and 9 Innovation Grants, in addition to providing over \$1.4M of equipment grant funding.

This year, the Foundation approved additional funding for four areas of identified need under the TPCF Research Ecosystem support program. Through that, an Allied Health Research Collaborative Coordinator was created to enhance TPCF Allied Health research capacity, collaboration, and impact. This initiative also supports a program manager role for the Queensland Lung Transplant Service (QLTS) Research Group.

As we reflect on the achievements of 2023, a deep sense of pride fills us. We are continually inspired by the commitment and determination of this talented group of people and excited by the possibilities of what they can achieve. We are also deeply grateful to the many individuals and organisations who, through their philanthropic contributions, public funding, grants and pro-bono work, find deep fulfilment in contributing to something bigger than themselves. It is this generosity that sustains our vital research and paves the way for life-saving breakthroughs.



Christopher Morton
Chair

The Prince Charles
Hospital Foundation



Steve Francia
Chief Executive Officer

The Prince Charles
Hospital Foundation



Tami Photinos
Executive Director

The Prince Charles
Hospital



A/Prof. Michael Nissan
Director of Research

The Prince Charles
Hospital

Adult Congenital Heart Disease Research Group

We aim to explore newer medical, surgical and percutaneous interventions to improve the health outcomes of young adults with congenital heart disease.

HEAD OF THE RESEARCH GROUP

- Darren Walters

RESEARCH GROUP MEMBERS

- Ryan Maxwell
- Abhinay Challa
- Kylie Burns
- Sylvia Chen
- Wendy Chan
- Yong Wee
- Lauren Giudicatti
- Vish Wijesekera

2023 SNAPSHOT

- ★ **Members:** 9
- ★ **Publications:** 5+

MAKING VITAL PROGRESS FOR YOUNG ADULTS WITH CONGENITAL HEART DISEASE

Due to medical advances in previous decades, a greater number of children born with congenital heart disease are now surviving into adulthood. This has led to a very large number of young adults with congenital heart disease making the transition into adult care.

Our research is important as new advances in cardiology are allowing our patients greater access to treatments. For instance, having a percutaneous procedure where traditional surgery was deemed too high risk, or accessing newer medical therapies (like Entresto in systemic right ventricles) that improve cardiac function.

HIGHLIGHTS

In 2023, our projects included the CH Fit Trial 'International prospective randomized registry looking at the impact of exercise in patients with congenital heart disease', as well as the F Fit Trial, which explored exercise training in patients with Fontan circulation. These trials established the importance of exercise training in patients with congenital heart disease.

The results of our work have changed practice in many respects, including rationalising follow-up of patients with Fontan circuits, and the equivalence of Aspirin and Warfarin in preventing Fontan thrombus.

Our research into Entresto in systemic right ventricles produced results indicating the use of Entresto in patients with systemic right ventricles might have benefits with symptoms and right ventricular function.

Notably, the group contributed to multiple significant publications from the ANZ Fontan Registry, and completed a review of outcomes of cardiac transplantation in adults with congenital heart disease in QLD 2019-2023.

COLLABORATORS

The ACHD research group collaborated on publications with the Hepatology Group at TPCH.



During 2023, transplant data provided valuable insight for the heart failure service to benchmark against international standards and guide patient selection and counselling prior to transplant.

Adult's, Children's and Emergency Research Group (ACER)

With the goal of ensuring research becomes part of The Prince Charles Hospital's core business, this collaborative group prioritises staff engagement with research across a range of disciplines.

Lee, Dr Eamonn Eeles, Dr Sarah Fox, Dr Chrys Ranjeev Pulle, Dr Deepak Darshan, Dr Lucy Dakin, Dr Alisa Crouch, Dr Jack Bell, Dr Hannah Gullo and Amber Jones.

2023 SNAPSHOT

- ★ **Members:** 50+
- ★ **Publications:** 10+
- ★ **Ongoing Active projects:** 6
- ★ **Projects completed:** 3

HEAD OF THE RESEARCH GROUP

- Dr Faye Jordan

RESEARCH GROUP MEMBERS

- | | |
|--------------------------|----------------------|
| • Louise Mills | • Leisa Bauer |
| • Dr Alastair Newton | • Meenu Wadhwa |
| • Dr Andrew Spiller | • Dr Ben Symon |
| • Dr Andrew Nicholson | • Dr Angela Berkhout |
| • Eleanor Anderson | • Dr Andrew Holgate |
| • Dr Joe Passantino | • Sheree Rablin |
| • Dr Gavin Fincher | • Dr Ryan Windish |
| • Joshua Wilcox | • Dr Alison Fifoot |
| • Sarah Hazelwood | • Dr Melanie Rule |
| • Dr Neil Grant | • Dr Andrew Doolan |
| • Prof Paul Fulbrook | • Dr Su Ann Yap |
| • Dr Polash Adhikari | • Dr Stephen Fahy |
| • Rachael McCall | • Dr James Harris |
| • Dr Rajeev Jaragula | • Dr Peter Stevenson |
| • Dr Rose Fahy | • Dr Linda Symington |
| • Dr Jess Rerden | • Dr Charles Orr |
| • Dr Jess Cassiello | • Dr Sanjana Sharma |
| • Dr Tigie Tozer | • Nicole Kelly |
| • Dr Tony Legassick | • Skye Drysdale |
| • Dr William See | • Dr Tony LeGassick |
| • Dr David Elliott | • Liselle Lumb |
| • Dr Rajeev Jarugula | • Jennifer Thomes |
| • Virginia Blakely | • Richard Anderson |
| • Louise Spooner-Jackson | • Dr Visai |
| • Andrea Hetherington | • Muruganandah |

Affiliations with TPCH interdepartmental staff: Lauren Atkins, Dr Wendy Chan, Dr Isuri Ranasingher, Dr Maryam Bayat, Dr Kirin Shekar, Barbara Zangerl, Dr Phil Masel, Dr Ian Yang, Dr Stephen Parker, Dr Sarah Steele, Dr Debbie

VITAL, COLLABORATIVE RESEARCH

Clinically relevant and practice-changing research is vital. Without it, we would not be able to deliver excellent, evidence-based clinical care to our patients.

To ensure research becomes a natural extension of day-to-day service provision at The Prince Charles Hospital, our research group is in a capacity-building phase. A truly multidisciplinary group, we pursue collaborations between departments and other health facilities that help us provide the very best treatments and patient care. Within the Emergency Department, our key research focus groups are paediatrics, geriatrics, cardiology, mental health and respiratory cohorts.



It is of utmost importance that research remains integral to our core business so we can continue to deliver patient care that is excellent and evidence based.

HIGHLIGHTS

In 2023, we had nine projects underway in the Emergency Department across both GED and CED. Each of these trials has served to inform evidence-based practice. For example, a collaborative study with the Heart Failure team, the 'Streamlined Pathway for Acute Heart Failure (SPAHF)' initiative has resulted in improved patient outcomes with reduced LOS for patients enrolled on the pathway within Emergency.

During the year, our team was awarded several grants, including a 'Capacity Building Grant' from the Emergency Medicine Foundation to fund secondments for Clinical Research Nurses and a 'Major Innovation Grant' for our project 'Predicting mental health-related emergency department re-presentations and subsequent hospitalisation: Logistic regression modelling of representation within 48 hours, 7-days, and 28-days.'

Advanced Heart Failure Group

The overall aim of our research program is to improve the quality of care for patients with heart failure at every stage of their journey, from diagnosis to treatment.

HEAD OF THE RESEARCH GROUP

- Dr Scott McKenzie

RESEARCH GROUP MEMBERS

- Dr Wendy Chan
- Dr George Javorsky
- Dr Maryam Bayat
- Lauren Atkins
- Haunnah Rheault
- Maricel Roxas
- Estelle Beevors
- Kathryn Stibijl
- Sandra Phillips
- Helen Seale
- Michelle Byard
- Airlie Hogan

2023 SNAPSHOT

- ★ **Members:** 12
- ★ **Clinical Trials and Studies:** 4 +
- ★ **Awards/Grants:** 1 award; 1 grant
- ★ **Media mentions:** 2

RESEARCH ADDRESSING A GLOBAL HEALTH CRISIS

Heart failure is a major global health crisis with high associated morbidity and mortality. As one of the most common causes of hospitalisation and re-hospitalisation, heart failure poses a threat to a person's survival and quality of life and places a significant financial burden on our society.

In this global landscape, there is an urgent clinical need to improve the diagnosis and treatment of heart failure. Our research looks at pathways to improve heart failure management, including ways to improve diagnosis and strategies to prevent hospitalisation, with the aim of benefiting both patients and society at large.

HIGHLIGHTS

This year, our group undertook four key research projects, including 'Development of 'cardiac-specific cell-free DNA quantitation in blood' as a highly sensitive biomarker

to detect heart failure patients most at risk of re-hospitalisation', a project we're working on in conjunction with CVMT and CCRG to explore cs-cfDNA as a potential prognostic marker in heart failure.

This year, we completed our 'Urinary Sodium (UNa)' pilot study, with results presented at ESC-HF 2023 in Prague in the form of a moderated poster by group member Dr Maryam Bayat.

Work also continued on the SPAHF study, with promising results suggesting that the introduction of an acute heart failure pathway could reduce patient time spent in the Emergency Department. However, it must be noted that the overall uptake of the pathway remained low, and further research is required to assess its true impact.

Preliminary results of the study were presented in TPCH's 'Charlie's Week 3MT' and as an oral abstract at the 2023 ACEM in Canberra, where they were well received by audiences.

A retrospective component of the study was also published in 'Emergency Medicine Australasia' during the year, filling the gap in the literature on contemporary management of heart failure in the Emergency Department in Australia.

In collaboration with Cardiology Clinical Research Centre, Dr. McKenzie is the National Lead Investigator for a pivotal phase 3 drug clinical trial in adults with chronic heart failure with reduced ejection fraction and Principal Investigator in 12 other commercially sponsored international Phase 2 and 3 drug and device clinical trials. This is the largest heart failure clinical trials centre in Australia.

Finally, we'd like to congratulate our PhD candidate, Miss Trang Dang, who, under the co-advisory support of Dr Wendy Chan, won the CSANZ 2023 'Clinical Trial Prize' for the study 'Potentially preventable health care costs associated with unplanned 30-day readmissions following hospitalisation for heart failure'. This research provided important insights into costly unplanned readmissions that were potentially preventable.



Our collaboration with TPCH's Emergency Department was significantly strengthened through SPAHF and Urinary Na Randomised Control Trial and will continue over the next 12 months.

Allied Health Research Collaborative (AHRC)

Our aim is to be an internationally recognised Allied Health Research Unit that reduces hospitalisation and improves quality of life for patients.

HEAD OF THE RESEARCH GROUP

- Professor Norman Morris

RESEARCH LEADS

- A/Prof Jack Bell
- A/Prof Peter Lazzarini
- Dr Hannah Gullo
- Dr Glenn Stewart
- Dr James Walsh

2023 SNAPSHOT

- ★ **Members:** 6+
- ★ **Awards:** 7 wins, 5+ finalists
- ★ **Publications:** 40+ peer-reviewed manuscripts
- ★ **Research students (PhD & Masters) supervised:** 30+
- ★ **Research degrees (PhD & Masters) awarded:** 4

Dr Michelle Cottrell and Dr Sara Winter have been appointed as AHRC's new research coordinators. Bringing a wealth of knowledge, they'll help further build our research capacity and collaborations across disciplines and services, and expand AHRC's team into the year ahead.

RESEARCH ENABLING HAPPIER, HEALTHIER LIVES

The overarching aim of our research is to enable people to live healthy, happy and productive lives away from the hospital setting.

To achieve this, our group brings together clinicians from Allied Health, Medicine and Nursing to implement evidence-based research practice. This research is directed at improving both hospital-based and long-term care outcomes.

Our work specifically focuses on improving outcomes for people attending TPCH, while also translating these outcomes to patients both nationally and internationally.

HIGHLIGHTS

During 2023, researchers from our group published over 40 peer-reviewed manuscripts, and were chief investigators on grants that administered over \$1.3M in funding.

The group led projects across a range of clinical settings at TPCH and across the world. This included a program undertaken by A/Prof Jack Bell that focused on the implementation of interdisciplinary nutritional care across a range of clinical settings, as well as a program of research led by Dr Hannah Gullo, examining neurorehabilitation with research themes in cognitive rehabilitation and technology-enhanced care and telehealth.

Several members of the AHRC and TPCH allied health team were recognised in 2023 for their outstanding research contributions, including A/Prof Peter Lazzarini, who was named 'Researcher of the Year' at the TPCH Staff Awards, while Dr Sara Winter received the 'Excellence in Integrated Care' award and Jenna Stonestreet received the 'Excellence in Performance' award.

AHRC members also received well-deserved international recognition, including A/Prof Prof Jack Bell, who was recognised as an adjunct Professor from the University of Iceland, and A/Prof Peter Lazzarini who received both the 'International Rising Star' and the 'Best Publication in the Past 4 Years' awards at the International Symposium on Diabetic Foot.

We congratulate all the award winners and finalists in our group whose transformational work has been celebrated this year.



The work our research group undertakes affects the quality of life of all patients who attend not only TPCH but hospitals in Queensland, Australia and globally.

Anaesthesia Research Group

Our group encourages multidisciplinary, multi-site collaborative projects with a holistic view of perioperative management, resulting in better long-term outcomes for patients undergoing surgery.

HEAD OF THE RESEARCH GROUP

- Dr Usha Gurnathan

RESEARCH GROUP MEMBERS

- A/Prof Ivan Rapchuk
- A/Prof Daniel Mullany
- A/Prof Jonathan Fanning
- Dr Jonathan Mattiske
- Dr Angus Low
- Dr Lenore van der Merwe
- Dr Thar Lwin
- Dr Sonia Vaughn
- Dr Sophie Jayamaha
- Dr Christopher Stonell

2023 SNAPSHOT

- ★ **Members:** 14+
- ★ **Clinical Trials and Studies:** 5+
- ★ **Awards/Grants:** 3
- ★ **Publications:** 18



FILLING THE KNOWLEDGE GAPS

The group's research topics address unexplored areas and investigate knowledge gaps in perioperative care. Our goal is to reduce the number of complications, hospital stays and hospital readmissions, thereby reducing the medical and economic burden of healthcare.

HIGHLIGHTS

Of our group's 18 publications in 2023, work was featured in journals such as the 'Journal of Cancer Research and Clinical Oncology' and the 'Canadian Journal of Anesthesia'.

There were several presentations made around Australia and internationally, including Dr Usha Gurnathan's 'A good beginning makes a good ending: Role of prehabilitation in cardiac surgery' delivered at the '2023 World Critical Care & Anesthesiology Conference' in Singapore.

During the year, our group undertook many projects. These included the analysis of the 'Queensland Difficult Airway Alert Project,' which is being led by group member Dr Jane Elms. Dr Usha Gurnathan is leading several projects examining the epidemiology, pharmacology, and preventative strategies for thromboembolic complications after major lower limb orthopaedic surgery.

Work on projects related to the assessment and optimisation of anaemia prior to cardiac surgery has continued during 2023, and group member Dr Rapchuk is involved in inter-hospital collaborative projects investigating antibiotic prophylaxis in cardiac surgery and the impact of COVID-19 on the anaesthetic workforce.

We're also delighted to welcome Associate Professor Jonathan Fanning to our group. Jonathan brings an impressive academic record and a solid commitment to research to the team.



In addition to research projects, we're initiating several low-risk, quality improvement projects to improve the safety and efficiency of patient care and patient satisfaction with anaesthetic management.

Cardiothoracic Surgery Research Unit

The Cardiothoracic Surgery Research Unit (CTSRU) supports focused interdisciplinary collaborative research projects with the aim of providing leadership in the field of Cardiothoracic Surgery.

IMPROVING OUTCOMES FOR OUR PATIENTS

Our patient cohort is increasingly complex, but technologies are constantly evolving in response.

We strive to develop evidence that guides outcome-driven clinical decision-making while implementing new strategies to optimise patient treatment.

HEAD OF THE RESEARCH GROUP

- Currently vacant. (Dr William Foot, Registrar lead)

REGISTRAR LEAD

- Dr Fiona Doig

RESEARCH GROUP MEMBERS

Consultants

- Dr Andrew Clarke
- Dr Homayoun Jalali
- Dr Dong Kang
- Dr Lachlan Marshall
- Dr Rishendran Naidoo
- Dr Anil Prabhu
- Dr Peter Tesar
- Dr Bruce Thompson
- Dr Livia Williams
- Dr Doug Wall
- Dr Morgan Windsor

Registrars & Clinicians & Support

- Dr Bishwo Shrestha
- Dr Vinod Sharma
- Dr Phillipa Bowers
- Dr Michael Daley
- Dr Sophia Tang
- Dr Lawrence Nair
- Dr Reza Habibi
- Dr Samad Raza
- Dr William Foot
- Dr Natasha Jeenah
- Dr Sigrid Theodore
- Dr Bronwyn Pearse (PhD)
- Ms Susan Smith (Clinical Research Coordinator)
- Ms Donalee O'Brien (Research Nurse)

2023 SNAPSHOT

- ★ **Members:** 28+
- ★ **Clinical Trials and Studies:** 15
- ★ **Awards/Grants:** 2+
- ★ **Publications:** 26

HIGHLIGHTS

The highly respected PEARS (Personalised External Aortic Root Support) program at TPCH has changed the landscape of Aortic Surgery, offering a procedure to prospectively reduce risks in type A Aortic dissection. This year, studies continued including investigating the role of 4D MRI.

The Thoracic surgery sub-group is Queensland's largest and provided a major contribution this year with 7 abstracts and 5 articles published, including reporting on development of the ANZ Lung Cancer Clinical Quality Registry, lung specimen bank, and lung cancer surgery outcomes among Indigenous cohorts, inter-jurisdictional differences and the impact of COVID-19 on lung cancer surgery in Queensland.


Our Pilot Study 'Rheumatic Fever and Rheumatic Heart Disease; Quantum of Public Awareness as a Tool for Primary Prevention of the disease' received accolades including 'Best Public Health EMCR presentation' at the Queensland Cardiovascular Research Network Showcase. The project team was recognised with a TPCH 'Staff Excellence Award for Indigenous Health Services Improvement', and a grant from TPCH Foundation.

Other projects included clinical trials aimed at optimising the application of known therapies, and collaborations with the Physiotherapy and Anaesthetics departments and Infectious Diseases Services.

In all, 26 publications were produced, including 'Determining sex-specific preoperative haemoglobin levels associated with intraoperative red blood cell transfusion in cardiac surgery: a retrospective cohort study' in the esteemed 'British Journal of Anesthesia'.



Our highly multidisciplinary and collaborative research projects focus on being clinically relevant to inspire progress and be a catalyst for surgical advances.



➤ *Currently-available circulatory assist devices typically require several expensive components, and the cost to manufacture is quite high, which often makes it prohibitive for hospitals, particularly in countries where access to healthcare is more limited. By introducing something like an Intra-Ventricular Balloon Pump (IVBP), we hope to be able to reduce the actual cost of the device being used to support the heart and, thus, giving more heart failure patients an affordable treatment option.*

Taylor Sing

FEATURED ARTICLE

Taylor Sing, PhD Candidate, Critical Care Research Group

Durable ventricular assist devices (VADs) are out of reach globally for many patients with severe heart failure, especially in countries with limited access to affordable healthcare. It's a fact that inspired PhD Candidate Taylor Sing to develop a cheaper and more effective alternative.

Taylor, who received a PhD scholarship in 2020 from The Prince Charles Hospital Foundation, has spent the past several years with the Critical Care Research Group's ICETlab developing and testing the efficacy of a cardiac assist device called an Intra-Ventricular Balloon Pump (IVBP). A prototype is being tested in the hopes that the technology could one day provide a low-cost option for short-term circulatory support for patients either waiting for a heart transplant or as they recover naturally.

"We are innovating from a previous balloon pump the Intra-Aortic Balloon Pump - but by putting a device into the ventricle, we anticipate that you'd be able to get a greater increase in cardiac flow and pressure to be able to better support heart failure patients and restore some element of quality of life. This effectively buys the patients time as clinicians try to determine whether a transplant is needed or a more durable, long-term support device. We hope to develop a device that will last up to three months. That's the timeline we are envisioning."

In 2023, Taylor worked on redesigning the IVBP prototype based on the results of a previous preclinical study. This revamp included updating the device's shape and changing the material from silicone to polyurethane which has proved more resilient. The recent work has also focused on improving the implantation method to reduce the risk of catastrophic bleeding.

"We'd conducted an implantation that was less successful, resulting in the balloon tearing. As a result, we decided to redesign the balloon and implantation mechanism to reduce the chances of developing tears," he explained.

Taylor describes 2023 as a year of significant progress for his PhD, particularly in two major areas. Firstly, progress was made with implanting the redesigned balloon pump into a large preclinical model.

"The heart was closed around the balloon, with the sheep stabilising post-insertion and no evidence of mitral valve interaction, arrhythmia or thrombosis. Six hours of support was provided to the animal, demonstrating an increase in cardiac output and pressure."

The second area of significant progress was in conducting blood compatibility studies, which sought to understand whether the balloon pump would induce more blood damage than you would see in a standard heart failure patient and, if so, how much more, and would this be an issue when implanting the device into a patient.

"We developed a pulsatile mock circulatory loop capable of conducting haemocompatibility tests using a single donation of human blood and tested this as part of the study. We managed to showcase that the balloon pump could increase the amount of support to the heart and that the increase in blood damage was proportional to an increase in flow, meaning that the balloon itself does not damage the blood," he said.

Taylor presented his research at the International Society for Mechanical Circulatory Support conference in Dallas at the end of October, where he received the prestigious 2023 Asia Pacific Young Investigator Award for this work - In-vitro haemolysis evaluation of a prototype intra-ventricular balloon pump as short-term mechanical circulatory support.

"It was a massive shock originally; I never anticipated it, but I am incredibly thankful. It felt like real validation of the work I've been doing and that my work was being recognised at an international level," he said.

"I look back on 2023, and I think it's a communal effort. I'm very, very proud, not just of the work that I've done, but of the work of the people around me, from the ICETlab and right across CCRG, The Common Good and everyone else in the TPCH community."

Cardiology Clinical Research Centre (CCRC)

CCRC is the hub of all research activities within the Cardiology Department of TPCH. Our collaborative team of cardiac research experts contribute to the global knowledge bank and rapid evolution of technology that's improving longevity and quality of life for cardiac patients across the world.

HEAD OF THE RESEARCH GROUP

- Medical Lead: Professor Darren Walters

RESEARCH GROUP MEMBERS

Investigators

- Associate Professor Haris Haqqani
- Associate Professor Isuru Ranasinghe
- Dr Scott McKenzie
- Dr Russell Denman
- Professor Gregory Scalia
- Dr Niranjan Gaikwad
- Dr Karl Poon
- Dr Dale Murdoch
- Dr Rustem Dautov
- Dr Robert Horvath
- Dr Maryam Bayat
- Dr Su Hnin Hlaing
- Dr Naim Mridha
- Dr Abhinay Challa
- Haunnah Rheault

Nurse Manager

- Maricel Roxas

Clinical Research Coordinators

- Estelle Beevors
- Bo Janoschka
- Megan Mearns
- Irena Rymar
- Suzanne Spencer
- Kathryn Stibijl
- Sandra Phillips

Administration Officers

- Bernice Enever
- Gabrielle Regazolli

2023 SNAPSHOT

- ★ **Members:** 26+
- ★ **Clinical Trials and Studies:** 50+
- ★ **Awards/Grants:** 2 awards

WORLD-LEADING RESEARCH

CCRC is one of the largest cardiology research centres in Australia. The centre leads the way in the coordination and conduct of international multi-centre clinical trials and investigator-initiated research.

Our centre focuses on six key areas:

- **Interventional Cardiology:** Our interventional cardiology researchers focus on leading-edge, first-in-man Transcatheter Aortic Valve Implantation (TAVI), Transcatheter Mitral Valve, Tricuspid Valve and Mitral Clip Implantation, InterAtrial Shunt device and Percutaneous Coronary Intervention Stent clinical trials. These important trials have paved the way for several devices to be approved by the FDA and TGA for commercial use as part of standard-of-care procedures.
- **Heart Failure:** Our heart failure research program aims to improve the quality of care for patients with heart failure, from diagnosis through treatment including home monitoring devices.
- **Infective Endocarditis:** Our 'Infective Endocarditis Registry and Biobank' is the first of its kind in Australia and will lead to a broad spectrum of future discoveries.
- **Hyperlipidemia, Cardiovascular Disease:** Our research in this area aims to support clinical trials of novel lipid-lowering therapies to minimise the risk of cardiovascular disease and prevention of rehospitalisation, morbidity (heart attack and stroke) and mortality.
- **EP:** Electrophysiologists in our group study the mechanisms of various heart rhythm disturbances with the aim of developing new treatments for these conditions including first-in-man device trials.
- **Echocardiography:** The CATHARSIS Program is the world's largest echocardiography comparative study.

HIGHLIGHTS

In 2023, the CCRC undertook 18 device trials, 15 drug trials, further development of the Infective Endocarditis Biobank, along with several local and international investigator-led research projects investigating diagnostics, and research projects examining clinical remote monitoring devices.



Our research team also maintained a range of Cardiovascular, COVID, Echo, Impella, Transcatheter Aortic Valve Implantation and Mitral Clip registries.

In 2023, the ENCIRCLE Trial achieved a major milestone with the successful implantation of the first two patients in Australia and the Southern Hemisphere. National Coordinating Principal Investigator Dr Dale Murdoch, along with group members Professor Darren Walters, Dr Karl Poon and Dr Christopher Raffel, are involved in the trial, which aims to establish the safety and effectiveness of the SAPIEN M3 (Mitral Valve) System in subjects with Mitral Regurgitation. By the end of 2023, enrolment was completed for this trial, with five patients implanted and all experiencing positive results.



CCRC continues to lead the way in the coordination of cutting-edge, novel and first-in-man cardiology interventional and structural percutaneous device clinical trials and is currently the largest Heart Failure research centre in Australia. CCRC is also proud to provide a platform not only for experienced researchers but also for aspiring and novice researchers, higher-degree students, and postgraduate nursing students.

Cardiovascular and Molecular Therapeutics Translational Research Group

Our group aims to gain a better understanding of the molecular basis of heart disease and dangerous arrhythmias to enable new medicines to be discovered that give better treatment to patients with heart disease.

HEADS OF THE RESEARCH GROUP

- Laboratory Lead: Professor Peter Molenaar
- Clinical Lead: Dr Haris Haqqani
- Clinical Lead: Yee Weng Wong

RESEARCH GROUP MEMBERS

- Dr Wandy Chan
- Dr Kafa Walweel
- Elizabeth Cheesman
- Dr Andrew Battle
- Dr Alexander Dashwood
- Dr Maithri Siriwardena
- Melanie Spratt
- Bianca Monzon
- Maxine Deeb
- Sarah Pham
- Jo Maddicks-Law
- Cassandra Vale

2023 SNAPSHOT

- ★ **Members:** 14+
- ★ **Clinical Trials and Studies:** 4+
- ★ **Awards/Grants:** 2



GIVING GREATER HOPE AND CERTAINTY TO PATIENTS

Our research is vital to provide a more certain life for patients with heart disease.

Currently, patients with heart failure live in fear of having a deadly arrhythmia. Our work will help enable a new class of medicines that target and prevent arrhythmia.

And, as the prevalence of heart failure continues to rise in Australia and around the world- with just 50% of people surviving five years after diagnosis – our research is giving hope to patients and their families by reducing the burden of heart failure and the risk of sudden cardiac death.

HIGHLIGHTS

In 2023, our group undertook a range of projects to increase understanding of heart disease, heart failure, arrhythmias and medicines that prevent and can reverse deadly arrhythmias.

These included a study of a medicine that was previously used to help manage epilepsy. We found that the medicine was very effective in preventing and reversing arrhythmias that occur in patients with heart failure. To improve its efficacy, we established a collaboration to help with the design and synthesis of two new, novel compounds that work at a lower concentration than the original medicines, opening the way for future development as well as improvement of existing medicines.

Other work included creating a model using small samples of human heart to test a novel compound that protects against damage caused by ischemia-reperfusion; investigating optimal use of β -blockers –including co-administration of two β -blockers –in the treatment of heart failure; and collaboration on a program aimed at developing new medicines to treat diabetes and obesity.

Our group also received funding from the 'Sheila & Bernard Joel Life-Saving Medical Equipment Foundation' to procure cutting-edge new equipment to propel our research, while Melanie Spratt was awarded The Common Good's prestigious Research Fellowship.



Our predominantly female research group proudly represents women in STEM

Comparative Echocardiographic and Catheterization Hemodynamics Study (CATHARSIS)

CATHARSIS is the world's largest echocardiography comparative study, with over 300 high-resolution, protocol-driven echocardiograms performed on a broad range of heart patients. To date, the data we've collected has been used to both validate existing procedures and develop new techniques.

HEADS OF THE RESEARCH GROUP

- Professor Gregory M Scalia

RESEARCH GROUP MEMBERS

- Dr David Platts
- Dr Darryl Burstow
- Dr Vinesh Appadurai
- Dr Stephen Tomlinson
- Dr Pyi Naing
- Dr Paul Wiemers
- Dr Krystal Lander
- Dr Natalie Edwards
- Dr Wendy Chan
- Dr Kathy Lau
- Maricel Roxas
- Bo Janoschka

2023 SNAPSHOT

- ★ **Members:** 13+
- ★ **Clinical Trials and Studies:** 5+

CUTTING-EDGE RESEARCH TO ANSWER VITAL CLINICAL QUESTIONS

Echocardiography, or cardiac ultrasound, is a non-invasive technique that's widely available in the community.

Thanks to many clever innovations over the last 50 years, echocardiographers have been able to answer a broad range of clinical questions that would have previously required patients to undergo expensive and invasive tests.

Our CATHARSIS program continues to push the envelope to develop new scanning and calculation techniques that will provide answers to even more clinical questions.

Thanks to this research, several innovations developed by our group are already in use daily in echocardiography labs around the world.

HIGHLIGHTS

During 2023, our group undertook novel investigation into two new parameters – left atrial strain, and left ventricular mechanical dispersion.

Left atrial strain is a new technology for assessing atrial function in patients with various forms of heart failure.

Group member Dr Stephen Tomlinson has pioneered the use of this pixel-tracking technology to estimate left atrial pressure and predict heart failure hospitalisations.

In other new projects, Dr Krystal Lander has examined ventricular function recovery after mitral edge-to-edge repair, while Dr Paul Wiemers has conducted research to show that pacemaker-related tricuspid regurgitation is remarkably infrequent.



We congratulate group member Dr Stehen Tomlinson on being awarded his 'Master of Philosophy' at Griffith University

Critical Care Research Group

Driven to improve outcomes for critically ill patients, the CCRG is a world-leader in the field of critical care research and biomedical engineering, with a focus on developing ground-breaking novel technologies.

HEAD OF THE RESEARCH GROUP

- Professor John F Fraser, Metro North Health Researcher of the Year

RESEARCH GROUP MEMBERS

- Abigail King
- Adrian Barnett
- Allison Kearney
- Andrew Haymet
- Angelo Milani
- Anna Madders
- Barbara Zangerl
- Binuri Perera
- Blake Hudson
- Bob Holdsworth
- Bruce Garlick
- Caitlin McGrath
- Carmen Ainola
- Charles McDonald
- Cheng Zhang
- Clayton Semenzin
- Dan Dai
- David McGiffin
- David Platts
- Dhayananth Kanagarajan
- Dylan Flaws
- Elise Wickham
- Eric Wu
- Gabriele Fior
- Gabriella Abbate
- Gianluigi Li Bassi
- Hamish Buntain
- Hannah Marrinan
- Hideaki Nonaka
- India Pearse
- Jacky Suen
- Jade Graham
- John Fraser
- Jonathon Fanning
- Kei Sato
- Keibun Lui
- Kieran Hyslop
- Kokoa Fujimaru
- Kota Hoshino
- Kris Skeggs
- Lauren Kelly
- Luke Churchill
- Mahé Bouquet
- Margaret Passmore
- Mia Campbell
- Molly-rose McInerney
- Nchafatso Giyenki Obonyo
- Nicole White
- Noriko Sato
- Oystein Tronstad
- Rachana Panduru
- Reema Rachakonda
- Sainath Raman
- Sam Huth
- Samia Farah
- Sarah Macari

- Silver Heinsar
- Simon Forsyth
- Sofia Portatadino
- Sue Patterson
- Taylor Sing
- Viacheslav Bolotnikov
- Yuchen Gao
- Zoe McSweeney
- Zohaib Nadeem

2023 SNAPSHOT

- ★ **Members:** 65+
- ★ **Clinical Trials and Studies:** 17
- ★ **Publications:** 90+
- ★ **Awards:** 10+

TODAY'S RESEARCH. TOMORROW'S TREATMENTS. DELIVERED TOGETHER.

The Critical Care Research Group's clinician-driven research aims to close gaps in current knowledge to aid clinical decision-making and patient management.

Founded in 2004, the Critical Care Research Group (CCRG) is recognised as Australia's leading multidisciplinary medical research facility. CCRG's aim is to investigate and develop novel technologies and treatments for life threatening conditions including heart failure, respiratory disease and sepsis, and further clinical knowledge of cardiothoracic transplantation.

Over the past two decades, CCRG has emerged as one of the world's leading preclinical research groups. The multidisciplinary team is positioned to advance healthcare innovations from early-stage trials through to clinical implementation.

HIGHLIGHTS

CCRG had an incredibly busy and productive year with more than 66 projects underway, over 90 manuscripts published and numerous outstanding recognitions.

Several of our projects yielded breakthrough findings, including:

- 'The Living Heart Project'. This year, CCRG's Head of Cardiothoracic Transplantation Research, Prof David McGiffin, together with Prof David Kaye (Alfred Health), presented the findings of the two-year clinical trial into organ perfusion. Findings



demonstrated that hypothermic machine perfusion can safely keep donated hearts alive outside the body for up to nine hours – more than double the current standard time using ice slush. The project was also named winner of the ‘2023 TPCH Staff Excellence Awards’ and highly commended at the ‘2023 Metro North Research Excellence Awards’.

- ‘Lung Ultrasound’. Published in a Scoping Review, this study investigated the use of lung ultrasound for open-heart surgery patients. The results showed that lung complications occur frequently for these patients and increase over the first three days following surgery. This discovery may facilitate more targeted, early treatments in this patient population.

Excitingly, this year, CCRG hosted the first-ever Critical care Research International: Knowledge, Evidence and beYond (CRIKEY) Summit on the Gold Coast. The event saw more than 80 of the world’s greatest critical care minds come together in Australia for four days of tours, workshops and panel discussions aimed at building new international research collaborations.



CCRG’s COVID-19 Critical Care Consortium is now widely regarded as the world’s largest COVID-19 ICU database, lauded by the Journal of the American Medical Association as a quantum shift in the way international research projects should be led.

Critical Care Research Group (CCRG) Innovative Cardiovascular Engineering and Technology Laboratory (ICETLab)

We aim to improve outcomes for patients with heart failure by improving the effectiveness of existing mechanical circulatory support devices, their manufacturing, and our understanding of their application while simultaneously shepherding the innovation of new devices.

HEAD OF THE RESEARCH GROUP

- Prof. John Fraser

RESEARCH GROUP MEMBERS

- Clayton Semenzin
- Taylor Sing
- Dhayananth Kanagarajan
- Zoe McSweeney
- Blake Hudson
- Viacheslav Bolotnikov
- Andrew Haymet

2023 SNAPSHOT

- ★ **Members:** 7+
- ★ **Clinical Trials and Studies:** 3+
- ★ **Awards:** 2
- ★ **Publications:** 3+

A VITAL ROLE IN SUPPORTING CRITICALLY ILL PATIENTS

Cardiovascular disease is one of the most significant health problems in Australia and across the globe. It accounts for one in four of all deaths nationally, claiming the life of one person every 12 minutes.

Cardiovascular devices such as artificial hearts, lungs, and valves play an important, often lifesaving role in supporting blood flow in critically ill patients.

HIGHLIGHTS

During 2023, our group worked on three key projects:

Development of an intraventricular balloon pump.

Excellent progress was made on this device which is being developed for the short-term support of patients suffering cardiac failure. In 2023 advances included the development of an in vitro test loop that allowed human blood to be pumped by an artificial pulsatile ventricle, and into which the intraventricular balloon was placed.

Fluid dynamical study of pulsatile ECMO.

Our work on this project in 2023 included a systematic review of pulsatile ECMO, which encompassed in vitro, in vivo, and in silico studies as part of a literature review. The systemic review was written up as a manuscript, which has been accepted for publication by ASAIO journal.

Heart Simulator.

This project looks to develop an artificial beating heart to mimic the native heart and provide a platform for testing and evaluating cardiovascular devices in a realistic scenario. This year's developments included integrating a large touch screen into the custom-built piston-pump controller, allowing for more precise adjustments to replicate different cardiac conditions. Additionally, a full 3D heart model was recreated from CT scans. The 1/3 scale (paediatric) model was 3D printed through Griffith University's ADaPT centre.

The group would like to congratulate two of our CCRG PhD Candidates: Taylor Sing was awarded the Asia-Pacific International Society for Mechanical Circulatory Support 'Young Investigator Award', and Dhayananth Kanagarajan received the 'Best Paper Award' at the Australasian Conference on Computational Mechanics (ACCM 2023).



CCRG's ICETLab is well connected with complementary labs in Australia and around the world, and it draws on computational, in vitro and in vivo facilities to develop mechanical circulatory support devices.

Core Thoracic Research Group

By assessing the evidence behind the diagnosis and management of common thoracic diseases and studying new investigations and therapies, we aim to identify the most effective ways to help our patients.

HEAD OF THE RESEARCH GROUP

- Philip Masel

RESEARCH GROUP MEMBERS

- Daniel Smith
- David Reid
- Rekha Hakim
- Ian Yang
- John Cameron
- Elvy Zeng
- Tracy Tse
- Kathleen Hall

2023 SNAPSHOT

- ★ **Members:** 9
- ★ **Clinical Trials and Studies:** 1
- ★ **Media mentions:** 12

PRIORITISING OUTCOMES FOR PATIENTS

Our group is dedicated to studying new investigations and therapies which may benefit people with diseases such as bronchiectasis, COPD, asthma, pleural effusions and pneumonia.

At the same time, it's vital that we assess the evidence behind the diagnosis and management of common thoracic diseases, maintain up-to-date knowledge and experience in this area, and foster the training of registrars and scientists.

Overall, our research encompasses many aspects of thoracic medicine and has involved all members of the MDT, including occupational therapists, physiotherapists, dietitians, social workers, pharmacists and respiratory trainees. The diverse perspectives of these team members help create innovative projects in this field.

HIGHLIGHTS

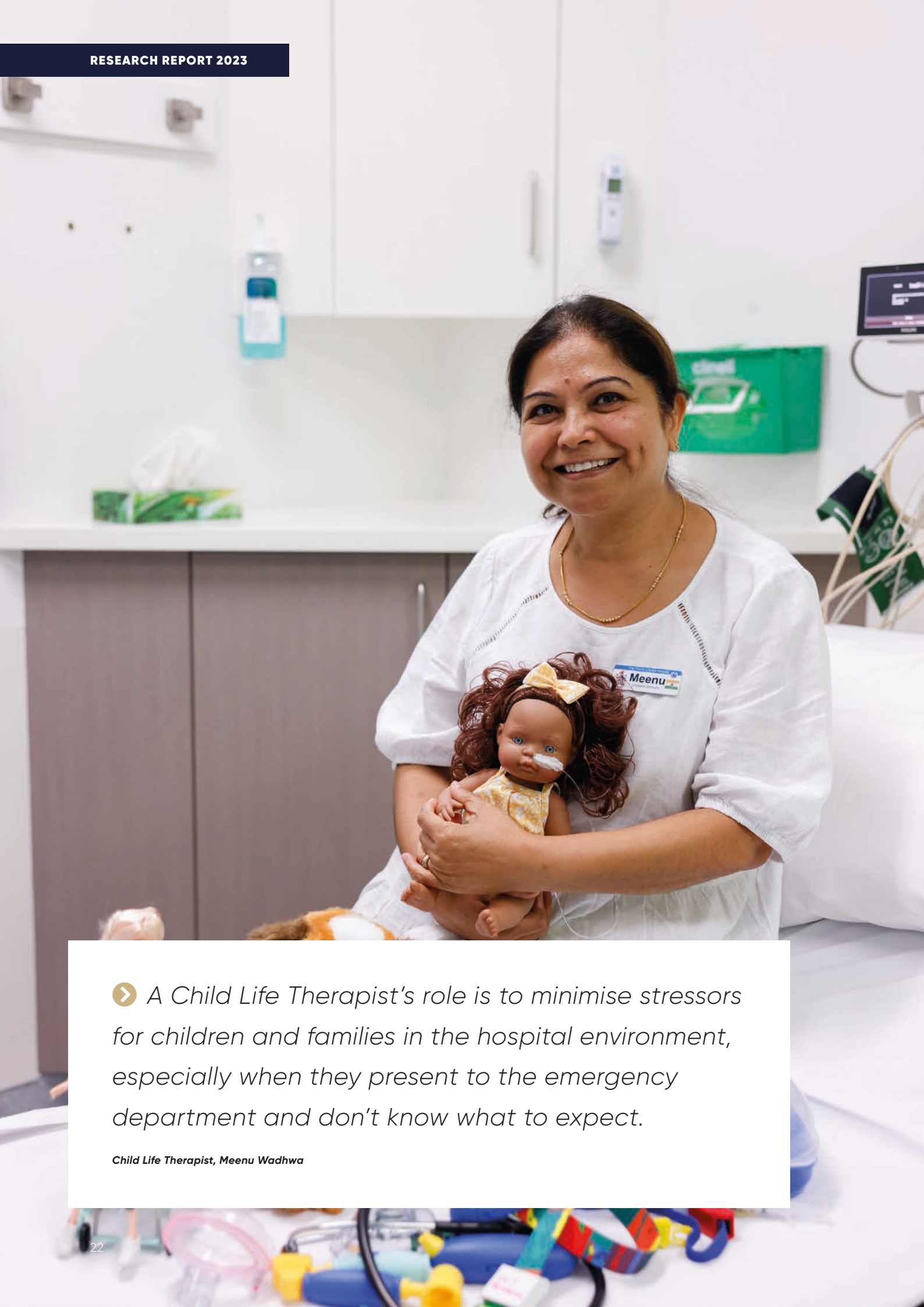
In 2023, Dan Smith and a team of investigators undertook the 'Chronic Cough Study'.

The Head of our Research Group, Philip Masel, was appointed as Deputy Convenor of the 'COPD Special Interest Group' and had a busy year chairing several sessions and judging posters at the TSANZ Conference in Christchurch, and presenting talks about asthma, clinical reasoning and small airways disease across New Zealand.

He also appeared on the ABC to discuss asthma management.



The development and rigorous trialling of new therapies will help ensure our patients gain maximum benefit and a better quality of life.



➤ *A Child Life Therapist's role is to minimise stressors for children and families in the hospital environment, especially when they present to the emergency department and don't know what to expect.*

Child Life Therapist, Meenu Wadhwa

FEATURED ARTICLE

Evaluating the Child Life Therapist Role

For sick or injured children who need hospital care, the pain and illness they're experiencing can be overwhelming – as can the fear of the unknown and the sense of helplessness about not being in control of their treatment and its outcome. But in 2022, an invaluable Child Life Therapist position was created at The Prince Charles Hospital to help alleviate the worries of some of the littlest paediatric patients.

This role was initially a pilot program funded for one year through The Prince Charles Hospital Foundation and its initiative, The Common Good, thanks to the Hospitals United for Sick Kids initiative (formerly Curing Homesickness) and its major partner Coles.

In 2023, the Child Life Therapist became a permanent position within the Children's Services.

Meenu uses play-based interventions including positive distraction techniques to minimise children's fear and anxiety to improve their coping in clinical environments. She helps to prepare children for medical procedures by explaining the process in an age-appropriate way, aiming to empower them by dispelling fears and clarifying any misunderstandings.

"Working closely with families, I collaborate to create coping strategies that provide a sense of control in challenging situations. I use play as a tool to connect with children effectively. Play within the hospital environment fosters a feeling of well-being and safety. The 'felt safety' helps me get through to them (the children) even when they're overly anxious," said the hospital's Child Life Therapist, Meenu Wadhwa.

"My approach is rooted in family-centered trauma-informed care principles, recognising that supporting parents is often as vital as preparing the children for procedures. Children's fears may not always revolve around the procedure itself, as demonstrated by a 14-year-old patient who was recently anxious about potential hospital admission following cannulation."

In 2023, a study evaluating the potential impacts and benefits of the Child Life Therapist role at The Prince Charles Hospital began. This study is titled: "Exploring the role of child life therapy in emergency: Children's emotional coping, healthcare experience and economic impact".

There are few Child Life Therapist positions around the country, and as such, there is very little literature exploring how they may help to improve patient experience or how the benefits of this ripple to other areas of care, including economic impacts such as whether or not it helps to lower the use of sedation, reduce a patient's length of procedure and stay, and decrease the number of staff needed to carry out procedures.

SPECIFICALLY, THIS STUDY SEEKS TO ANSWER FOUR QUESTIONS:

1. Does use of sedation, staff time and the number of staff involved in the procedure differ between children receiving and not receiving child life therapy while undergoing closure of laceration and cannulation procedures?
2. Do children's emotional coping and pain differ depending on whether they are receiving child life therapy or not during closure of laceration and cannulation procedures?
3. What are children's and their parents/guardians' experiences of the Child Life Therapist role during their stay in children's emergency?
4. What are the multi-disciplinary team's perceptions of the role and impact of Child Life Therapists in children's emergency?

Several methods are being used to collect the data, including a questionnaire that parents/guardians fill out immediately after a procedure. If able, children also provide feedback about their experience, including telling their treating doctor or nurse about how worried they felt and rating their pain levels. The children in this study are between 4 and 16 years old who either have a laceration requiring sutures or require cannulation and/or blood to be drawn.

"Part of the study will also include staff interviews with multi-disciplinary team members who've been exposed to the service for more than a year, providing a qualitative exploration of how it's been going," said Dr Hannah Gullo, one of the study's co-investigators. *"I guess the hope is to demonstrate that it is effective and beneficial – and that every hospital should have a Meenu."*

Cystic Fibrosis Research Group

Through collaboration and partnership in clinical research, our group aims to improve the health and wellbeing of people living with Cystic Fibrosis (CF) and other associated respiratory conditions.



HEAD OF THE RESEARCH GROUP

- Professor Ian Yang

RESEARCH GROUP MEMBERS

- Professor Scott Bell
- Dr Phil Masel
- Dr Paul Lane
- A/Professor David Reid
- Dr Daniel Henderson
- Dr Shanal Kumar
- Dr Ieuan Evans
- Dr Daniel Smith
- Michelle Wood
- Iain Smith
- Felicity Loel
- Vanessa Moore
- Tracy McMahon
- Andrea Lacey
- Angela Matson
- Karen Herd
- Kathleen Hall
- Robyn Cobb
- Jennifer Bingham
- Suzette Fox
- Paul Maplethorpe
- Julieta Castellini
- Dr Graeme Mattison
- Dr George Tay
- Dr Andrew Burke
- Emma Ledger
- Lisa Jurak
- Amali Fernando

2023 SNAPSHOT

- ★ **Members:** 29+
- ★ **Collaborators:** 15+
- ★ **Clinical Trials and Research Studies:** 10+
- ★ **Awards/Grants:** 4

RESEARCH TO CLOSE THE GAP

Thanks to ongoing improvements in treatment for CF, people living with the disease are now experiencing better health than ever before. However, their life expectancy remains well below the Australian average.

At the same time, Cystic Fibrosis Transmembrane conductance Regulator (CFTR) modulator therapies are not yet suitable for all people with CF, with around 10% of patients unable to tolerate or access these medications for their genotype.

Our research into areas including novel therapeutics and pioneering cohort studies, alongside our focus on better understanding the impact of infection, inflammation and integration of health technologies into clinical care, will help improve lung health for people with CF, ultimately increasing longevity in patients.

HIGHLIGHTS

In 2023, we undertook 10 diverse, multidisciplinary research projects, including the 'National NTM in CF study', in which we recruited more than 1,200 people with CF who produce sputum and followed up for up to five years. With analysis currently underway, we've already established that the rates of NTM (Nontuberculous Mycobacterial) infection in people with CF nationally are higher than anticipated—especially in children.

This year, Professor Bell collaborated with national leaders in the management of chronic suppurative lung disease to publish the updated 'Thoracic Society of Australia New Zealand Guidelines for the Management of Bronchiectasis in Children and Adults'; while A/Professor David Reid and collaborators were awarded a 'National Health and Medical Research Council Ideas Grant' to explore how manipulation of iron metabolism in the lung airways may be utilised in the treatment of severe asthma and COPD.

On the global stage, we continue to participate in international pharmaceutical clinical trials developing CFTR modulator therapies, which are transforming the lives of people with CF.



Our group's research is critical to efforts to continue to reduce the health disparity experienced by people living with CF.

Health Services and Outcomes Research Program

Our multidisciplinary group aims to generate research that informs practical clinical and policy strategies to improve cardiovascular health services and patient outcomes.

HEAD OF THE RESEARCH GROUP

- A/Prof Isuru Ranasinghe

RESEARCH GROUP MEMBERS

- Dr Linh Ngo
- Dr Maryam Khorramshahi Bayat
- Ms Trang Dang
- Ms Sunnya Khawaja
- Dr Karen Hay
- Dr Yang Peng
- Dr Michelle Tan

2023 SNAPSHOT

- ★ **Members:** 8
- ★ **Trials and Studies:** 7+
- ★ **Awards:** 1 award, 1 travel grant awarded
- ★ **Publications:** 9

WORKING TO IMPROVE PATIENT HEALTHCARE

Our applied research program seeks to evaluate real-world health outcomes of health practices. By studying these outcomes, we can gain valuable insight and identify opportunities to improve patient care through clinical and policy intervention.

In 2023, our group undertook seven important projects, including 'Leveraging Big Data to Inform Nationwide Cardiovascular Health Outcomes' led by A/Prof Isuru Ranasinghe. A National Heart Foundation funded data linkage study, this project brings together millions of healthcare records from more than 1,000 public and private facilities from across Australia and New Zealand. This research allows population-wide assessment of outcomes of hospital-based cardiovascular care so we can better understand how these vary across the many healthcare facilities and regions.

Other projects included: 'Safety, Effectiveness of care and Resource use among Australian Hospitals (SAFER Hospitals)' also led by A/Prof Isuru Ranasinghe; and, 'Medication-Related Severe Adverse Events: Developments of Patient Safety Surveillance and Prevention Strategy Using Real-World National Clinical Data', led by Dr Michelle Tan.

HIGHLIGHTS

In 2023, Dr Linh Ngo successfully completed her PhD, and her paper on long-term outcomes of atrial fibrillation was accepted into the 'European Heart Journal'.

Ms Trang Dang, one of our group's PhD candidates, was awarded the prestigious 'Clinical Trials Prize' at the 2023 Cardiac Society of Australia and New Zealand Annual Scientific meeting in Adelaide. Additionally, her paper 'Hospital costs associated with 30-day unplanned readmissions following hospitalisation for heart failure in Australia' was accepted into the Medical Journal of Australia.

Other highlights included Dr. Maryam Khorramshahi Bayat's presentation of her RCT on 'Evaluating the Role of Urinary Sodium (UNa) - Guided Diuretic Therapy in Acute Heart Failure' at the European Society of Cardiology - Heart Failure (ESC-HF) Congress in Prague. She also received a travel grant to present her research results in Australia.



This year, we welcomed Dr Michelle Tan to our group. Dr Tan, an epidemiologist and health services researcher from the UK, has joined us as a Post Doctoral Research Fellow and will collaborate on our 'SAFER Hospitals' project.

Improving Gastroenterology Outcomes through Clinical Research



Our research group aims to improve the lives of patients living with liver and bowel diseases.

HEAD OF THE RESEARCH GROUP

- Dr Tony Rahman

RESEARCH GROUP MEMBERS

- Dr Ruth Hodgson
- Dr Antony Pan
- Dr Myatt Khaing
- Ann Vandeleur
- Endoscopy Nurses Collaborative
- and our Research Registrars

2023 SNAPSHOT

- ★ **Members:** 9+
- ★ **Trials and Studies:** 6
- ★ **Awards:** Royal College of Physicians 'International Excellence in Patient Care' award

TRANSLATING RESEARCH INTO LIFE-SAVING PATIENT CARE

We conduct clinically-focused research designed to improve care and outcomes for patients with gastrointestinal and liver diseases. We are focused on improving patient access and equity of access by introducing new technologies (scientific or technology-based) to facilitate the modification of inefficient clinical pathways.

Projects undertaken in 2023 include our award-winning 'GEO platform' project that is designed to improve patient education, leading to higher colon cancer and polyp detection; The 'International Multicenter double-blind placebo-controlled trial' that looks at a medication to eliminate clinical hepatic encephalopathy; and 'Cirrhosis and Hepatic Encephalopathy' trials.

This work has helped to: Reduce bowel cancer in our local population by facilitating over 14,000 colonoscopies and improving patient education; cure over 1,000 patients in the community with Hepatitis C who have accessed our novel pathway to receive fast, life-saving treatments from their local doctor; and, improve the lives of patients with hepatic encephalopathy through earlier detection and treatment.

HIGHLIGHTS

In 2023, our GEO education platform was further developed to translate content into five local languages, as well as AUSLAN sign language, making it accessible to more people in our communities. This is a world-first for a patient knowledge-enhancing platform of this type.

Our group has also registered as a "Green Endoscopy Unit", highlighting our commitment to a more sustainable future.



Our research addresses needs that are important to our patients.

Infective Endocarditis Queensland (ieQ)

An initiative of The Prince Charles Hospital (TPCH), ieQ is Australia's first clinical and research collaborative supporting improved outcomes for patients with infective endocarditis.

CO-CHAIRS OF THE RESEARCH GROUP

- Dr Robert Horvath
- Dr Yong Shen Wee

RESEARCH GROUP MEMBERS/EXECUTIVE COMMITTEE

- Dr John Sedgwick
- Dr Alex Chaudhuri
- Dr David Godbolt
- Dr Rishendran Naidoo
- Dr Peter Pohlner
- Dr Al Alghamry
- Dr Joseph Lee
- Professor Greg Scalia
- Professor Isuru Ranasinghe
- Mrs Maricel Roxas
- Bo Janoschka

2023 SNAPSHOT

- ★ **Members:** 13+
- ★ **Clinical Trials and Studies:** 3+

GAINING NEW INSIGHTS INTO INFECTIVE ENDOCARDITIS

While infective endocarditis is a relatively uncommon condition, it still has a significant impact in our community.

Each year, around 60–80 patients are treated for the disease at TPCH, many of whom undergo open-heart surgery.

Sadly, at least 1 in 10 Queenslanders affected by infective endocarditis will die from it, while many survivors suffer severe consequences that affect their quality of life.

Our group is dedicated to improving outcomes for infective endocarditis patients by making advances in

the diagnosis, management and prevention of this little-studied disease.

To do this, we are working across four key pillars: research (database, biobank, projects and presentations), management (EAT and QFEG), education (website, info sheets, symposia), and collaborations across multiple disciplines, centres, hospitals and states.



HIGHLIGHTS

This year, ieQ undertook projects including an audit of endocarditis at QCH and an Endocarditis Study: 'Host-Pathogen Relationships and Improved Diagnosis in Infective Endocarditis (ieQ Biobank)'.

We are also working on a 'Q Fever Registry', which is in planning with a committee from three Australian states. Importantly, this will serve as a pilot for a planned endocarditis state/national registry.

During 2023, we also conducted 'enhanced testing' for acute Q fever. Initiatives based on this testing resulted in PQ deferring a reduction in Q fever PCR testing. Significantly, this increased the detection of Q fever – especially in hospitalised patients.

In other Q fever initiatives, we focused on perinatal Q fever, with the aim of developing Australia's first guidelines on this topic.



The unique, multidisciplinary nature of our research group helps break down the barriers that currently exist between disciplines and professions.



➤ *Diabetes Foot Disease is the 13th largest cause of the global disease burden and has a similar sized burden to dementia and breast cancer combined... and it's growing. Yet, until recently, few people knew what DFD was, let alone how big its burden was.*

A/Prof Lazzarini

FEATURED ARTICLE

TPCH Researcher of the Year, A/Prof Peter Lazzarini

Across the globe, someone loses a leg every 20 seconds because of Diabetes Foot Disease (DFD). While DFD was widely known to be the leading cause of amputations, what is now known is that globally, it is also a leading cause of poor quality of life, disability, and hospitalisations. In fact, DFD accounts for about 2% of the global disease burden.

Associate Professor Peter Lazzarini, a podiatrist who completed his PhD at The Prince Charles Hospital on the burden of DFD in inpatient populations in 2016, was behind much of this new knowledge and has been continually surprised to explore the extent of DFD's disease burden.

"When I first started practising, I was shocked by how many patients with DFD were in different wards having amputations, yet little focus seemed to be on these patients, unlike other diseases with similar or fewer patients. When I alerted managers to the numbers I was seeing, they would ask for evidence of how big the DFD burden was, but unfortunately, at that time, there was no evidence that quantified the DFD problem. This is what led to my PhD," A/Prof Lazzarini said.

In 2023, A/Prof Lazzarini published 15 peer-reviewed papers on DFD. He was the first author of the award-winning paper, A new declaration for feet's sake: Halving the global diabetic foot disease burden from 2% to 1% with next-generation care.

The findings stress that global policymakers should start to provide the same focus on reducing the DFD burden as they do for conditions with similar disease burdens, such as stroke.

For this and other work, A/Prof Lazzarini was awarded the prestigious 2023 International Rising Star award at the 9th International Symposium on the Diabetic Foot for his research to better understand and reduce the burden of DFD globally.

"It was nice to be the first outside of Europe and the US to receive one of these international DFD awards, but more importantly, it really was great recognition of the collective work being done in the DFD field around Australia by literally hundreds of clinicians, researchers and students, that is helping to improve DFD care and research globally," A/Prof Lazzarini said.

While A/Prof Lazzarini's research has focused predominately on quantifying DFD burdens, he has also co-led the development of multiple national and international DFD guidelines to improve clinical outcomes for people with DFD.

In 2023, A/Prof Lazzarini was also the first author of the Australian evidence-based guidelines for the prevention and management of diabetes-related foot disease.

"We adapted the international guidelines to the Australian context with 30 experts around Australia. There were 100 recommendations in the international guidelines, and we came up with 98 recommendations across six guidelines. Now, it's about ensuring they don't sit on shelves and that they are implemented into clinical practice at the end of the day."

A/Prof Lazzarini described DFD as "like a modern-day leprosy hidden in a shoe" due to the inability of people with DFD to feel damage and ulcers on their feet. A large portion of those affected are middle-aged men, a demographic that A/Prof Lazzarini explains is traditionally more challenging to engage to look after their health, and the demographic is getting younger.

"People with DFD have a huge amount of care to carry out monitoring their blood glucose levels regularly, taking medications, seeing their doctors and nurses, and then with their feet, they need to also change dressings, wear moon boots, check for infections, etc. So, we see a lot of treatment burnout in people with DFD," A/Prof Lazzarini said.

In 2023, a feasibility study of the MyFootCare Smartphone App prototype was published by A/Prof Lazzarini and several peers, with thanks to funding from TPCH Foundation. The app helps people with DFD care for their own feet outside of the clinic by allowing them to take "foot selfies" and automatically track the progress of their DFD. It also reminds them of the care tasks needed for their feet.

Internal Medicine & Dementia Research Unit (IMDRU)

Since 1998, our group has undertaken more than 45 international pharmaceutical randomised clinical trials in the hope of finding a cure and a potential new treatment for dementia.

HEADS OF THE RESEARCH GROUP

- Dr Chrys Pulle

RESEARCH GROUP MEMBERS

- Dr Gurudev Kewalram
- Dr Lucy Dakin
- Dr Carolina Ling
- Dr Debbie Lee
- Dr Benignus Logan
- Dr Alisa Crouch
- Dr Eamonn Eeles
- Dr Donna Pinsker
- Ms Margaret Morton
- Ms Maureen Morgan
- Ms Anne Bucetti
- Ms Amy Gilbert
- Ms Laura White
- Ms Robyn Riley
- Mr Andrew Trotter
- Mr Wayne Brady
- Ms Lisa Goldsmith
- Ms Rebecca Greenwood
- Ms Caroline Logan
- Ms Natasha Bhan
- Ms Lisa Goldsmith
- Mr Roger Penfound
- Ms Sonia Brocchi

2023 SNAPSHOT

★ Clinical Trials and Studies: 5



UNLOCKING A BETTER FUTURE FOR DEMENTIA PATIENTS

Currently, there is no cure and no available affordable treatment for dementia.

Clinical research is the only way to advance dementia treatment and prevention, and one day find a cure for this insidious disease.

Thanks to the dedication, innovation and commitment of our diverse team of professionals and the assistance of clinical research participants, we will continue to strive for new breakthroughs in this often-challenging area of research.

HIGHLIGHTS

In 2023, our group undertook several pharmaceutical clinical trials to investigate potential new treatments. These included the use of Monoclonal Antibodies and GLP-1 (glucagon-like peptide-1).

Throughout the year, participants and study partners were also involved in the Queensland Art Gallery, Gallery of Modern Art (GOMA) Dementia & Art Project, as well as "Sing Sing Sing", a Dementia Choir which has been very successful.

Clinical trials provide patients who have been diagnosed with Mild Cognitive Impairment or Dementia the opportunity to trial a potential new treatment. At the same time, the research provides clinicians with the opportunity to develop knowledge and improve their understanding of the disease and to benchmark clinical research in the translation of new knowledge of medications and dementia management.



IMDRU is the only unit of its type currently operating in Queensland Health. It has established a reputation for celebrating and validating patient-focused initiatives and engagement, which improves both the patient and study partner's clinical experience.

Internal Medicine Research Committee

We aim to facilitate clinician-driven research within Internal Medicine Services, enabling the ongoing provision of high-quality clinical care to our patients.

HEADS OF THE RESEARCH GROUP

- Dr. Eamonn Eeles
- Dr. Chrys Pulle

RESEARCH GROUP MEMBERS

- Dr. Sarah Lord
- Dr. Lucy Dakin
- Dr. Ling Lan
- Ms. Susan Manion
- Ms. Rachael Williams
- Dr. Jack Bell
- Ms. Margaret Morton
- Ms. Margaret Turner

2023 SNAPSHOT

- ★ **Members:** 10+
- ★ **Awards/Grants:** 1+
- ★ **Publications:** 3+

ADVANCING CLINICIAN-DRIVEN RESEARCH

By facilitating clinician-driven research within Internal Medicine Services at TPCH, our research committee has three clear aims.

Firstly, to aid the development of research questions, advice and education regarding implementation. Secondly, to provide oversight and governance of clinician-driven research across Internal Medicine Services. And finally, to assist in the development of researchers and clinicians at different stages of their research careers.

HIGHLIGHTS

It has been a busy year. Across 2023, our advanced trainee mentorship program provided research support for multiple advanced trainees with several projects approved by the Royal Australasian College of Physicians.

Meanwhile, members of our Research Committee and the broader Internal Medicine Services team at TPCH

achieved a number of publications in journals, including 'Australian Critical Care', 'Coronary Artery Disease', and 'Delirium Communications'.

We're also delighted to share that Research Committee co-chair Dr Eamonn Eeles received the 'Best Oral Presentation' award at the European Delirium Association Conference in Birmingham (UK) for his presentation: 'Real world implementation of an electronic diagnostic support tool (AID-DST) designed to identify the cause(s) of delirium. A study protocol and work in progress.'

Additionally, Dr Eeles was a finalist for the 'Metro North Researcher of the Year' award and a TPCH 'Hour of Power' finalist for his presentation 'Aetiology in Delirium'.

This year also saw the exciting unveiling of 'Charlie's Village' and 'Memory Lane', a collaboration between The Prince Charles Hospital Foundation and Internal Medicine Services.

'Charlie's Village' is the result of a transformation of the hospital's specialist dementia care unit's outdoor space to incorporate custom-built familiar facades such as a hair salon, bakery and café, general store, hotel, and post office. This is designed to help patients feel more confident and connected while maintaining some independence and mobility during their hospital stay.

'Memory Lane' aims to encourage patients to mobilise and reminisce in the hospital as they walk and look at old pictures of Brisbane and our community. It has been designed as a space where our clinicians and patients' families and friends can support our patients' functional, emotional and physiological care needs as they interact within our hospital environments.

Linked to this, our Research Committee awarded a bursary to a clinician researcher to investigate the efficacy of non-pharmaceutical interventions in improving outcomes for patients exhibiting significant behavioural and psychological symptoms of dementia in the hospital setting.



Looking to the future, in 2023, we formed new collaborations with artificial intelligence leads in the School of Electrical Engineering and Computer Science at the University of Queensland.

Medical Imaging and Richard Slaughter Centre of Excellence Imaging Research Groups

The aim of our research groups is to develop and implement new imaging techniques that continue to improve the efficient use of medical imaging to deliver optimal patient care outcomes.

HEAD OF THE RESEARCH GROUP

- Dr Rachael O'Rourke

RESEARCH GROUP MEMBERS

- Dr Anthony Litzow
- Dr Allan Wesley
- Dr Harsh Kandpal
- Mr Damien Thomas
- Mr Andrew Trotter
- Ms Elizabeth Warburton
- Ms Katrina O'Keefe
- Mr Chris Gilmore
- Dr Brendon May
- Dr Nick Brown
- Dr Joseph Lee

2023 SNAPSHOT

- ★ **Members:** 12
- ★ **Clinical Trials and Studies:** 12+
- ★ **Publications:** 3

THE CHANGING LANDSCAPE OF MEDICAL IMAGING

Imaging is an integral and essential part of the patient care pathway. Now, with the advent of AI, photon-counting CT technology and faster MRI imaging techniques, the door is open to exciting innovations.

At this time, we feel it's vital to develop better, more efficient imaging techniques via translational research to ensure medical imaging remains up-to-date and sustainable, so we can continue to deliver the best outcomes for patients.

HIGHLIGHTS

In 2023, our research groups continued to support clinical areas with projects including:

- **Thoracic Imaging:** 'Australian Lung Screening Trial' (lead imaging site); CT and CXR imaging to support drug investigation trials.
- **Cardiovascular Imaging:** 4D flow post-PEARS patients; Myocarditis MRI guidelines; Transcatheter percutaneous tricuspid valve replacement.
- **Pulmonary Hypertension:** Ongoing research and follow-up for chronic thromboembolic pulmonary hypertension (CTEPH) patients undergoing balloon pulmonary angioplasty (BPA) utilising exercise bike MRI imaging and response to drug trials.
- **Neurocognitive:** Dementia research, including work with our physician colleagues to investigate the results of novel dementia treatment drugs and novel MRI techniques for the identification of Parkinson's.
- **Orthopaedic:** Genicular artery embolisation as bridging treatment to knee replacement.

This research may enable the development and validation of new interventional radiology techniques, drug treatments, improved pathology detection and improved utility of complex imaging.

In 2023, our groups' work was published in various journals, and our 'CTCA Quality Improvement Audit' was presented as a poster at RANZCR ASM in Brisbane.



Along with projects undertaken by medical imaging team members, many projects across TPCH rely on medical imaging for their research projects to succeed.

Network for Orthopaedic and Fracture Education and Research (NOFEAR)

The aim of NOFEAR is to promote pragmatic clinical research to achieve the best outcomes for Hip Fracture and Orthopedic patients.

JOINT LEADERS OF THE RESEARCH GROUP

- Dr Chrys Pulle
- Adj Prof Jack Bell
- Dr Alisa Crouch
- Dr Simon Perkins
- Dr Catherine McDougall

RESEARCH GROUP MEMBERS

- Prof Ross Crawford
- A/Prof Ivan Rapchuk
- Dr Sophie Jayamaha
- Alex Maltby
- Dr Usha Gurunathan
- Madonna Dalton
- Rebecca Ferrier

2023 SNAPSHOT

- ★ **Members:** 11+
- ★ **Clinical Trials and Studies:** Multiple
- ★ **Awards/Grants:** 1+
- ★ **Publications:** 8+

IMPROVING QUALITY OF LIFE FOR FRAIL PATIENTS

Our group is comprised of a diverse range of clinicians involved in the complex care of Hip Fracture and Orthopedic patients. While there is limited scope for randomised trials in this population group, we are able to contribute clinically-based evidence for best practice guidelines.

We focus on supporting benchmarking, implementation and knowledge translation approaches to improve patient and health care outcomes in this unit at TPCH and throughout Australasia.

Since our inception, research outcomes and NOFEAR member advocacy have directly influenced clinically-based evidence for best practice guidelines both in Australia and internationally.

HIGHLIGHTS

In 2023, our group was involved in a broad array of research across all areas of Orthogeriatric Care.

We undertook numerous projects centred around implementing systematised, interdisciplinary nutrition care approaches in Acute Care, Geriatric and Orthogeriatric settings.

A key project led by Jack Bell has been laying the groundwork to translate the SIMPLE Nutrition Pathway and Toolkit into practice across fragility fracture settings globally over the next several years. These works are a direct result of the work initially started here at TPCH, kicked off by a New Investigator Grant funded by the TPCH Foundation.

As co-chair of the Fragility Fracture Network’s global Recover Research Special Interest Group, Jack also co-edited a BMJ Open Quality supplement entitled ‘Fragility Fracture Network: Innovations in Healthcare Improvement’. This work highlights 13 quality improvement initiatives to provide better care for older people experiencing fragility fractures. The work also included a short report introducing a world-first advanced physiotherapy outpatient triaging service, led and first authored by NOFEAR’s Rebecca Ferrier.

During the year, another of our NOFEAR members, Stephanie Greer, was accepted to present her 2022 Quality Improvement project, ‘Walking a new path: changing the post-operative pathway to optimise dysphagia management in hip fracture’ at the 2023 National Allied Health Conference (NAHC) in Perth.



We are proud to say that our clinical research—and translating of research into practice across studies—has demonstrated improved patient and healthcare worker experiences and healthcare outcomes.





Palliative Care *It's more than they think.*

The ultimate aim of palliative care is to help your patients live as well as possible for as long as possible.

What is palliative care?
Palliative care plays a fundamental role in the care of people with life-limiting illnesses and their families, helping to improve the quality of life across a patient's illness journey. This involves prevention, early identification, assessment, and management of a multitude of problems, including medical, psychosocial and spiritual.

Palliative care enhances quality of life by treating burdensome symptoms throughout the disease journey - not just at the end of life. Palliative care specialists often work in conjunction with other specialist medical teams in a shared care model to support patients. Their involvement is used to stabilise or

How can palliative care help you and your patients?
Early palliative care has been shown to help improve quality of life and reduce the burden. It also reduces the number of hospital admissions, and visits to the emergency department, as well as shortening hospital length of stay.

Palliative care can help with specific needs:

- Symptom management
- Equipment needs
- Future planning
- Providing support to families
- Complex end of life care

How do I access palliative care services or find out more?
Speaking to your local palliative care service will provide you with up to date information on the services available in your area.

think.org.au
palliativecare.org.au

Queensland Government
in partnership with Queensland University of Technology

➤ *The emphasis of a palliative care approach is on maximising quality of life through assessing and treating symptoms, psychosocial problems, and spiritual issues. However, we know that lots of people aren't benefiting from it and a major reason is late referral.*

A/Prof Stuart Ekberg

FEATURED ARTICLE

Palliative Care: It's More Than They Think

According to the World Health Organisation, palliative care aims to "prevent and relieve health-related suffering" for those with life-limiting illnesses.

The approach to care is comprehensive and person-centred to address physical, psychological, social and spiritual suffering. Despite the intentions of this care approach, including managing symptoms and improving the quality of life, palliative care is commonly associated solely with end-of-life care.

"There are many reasons why people should come to palliative care sooner rather than later. However, as the general public equates it with care provided immediately before death, this is a massive challenge for us," said A/Prof Stuart Ekberg.

To address this problem and broaden understanding at the patient level, Palliative Care Australia (PCA) released resources called Palliative Care: It's more than you think. However, a group of palliative care specialists believed better support could also be provided for clinicians who are caring for patients with life-limiting illnesses.

Their research involved video recording up to the first three palliative care outpatient consultations to determine if this common patient perception was present. It also analysed how those clinicians inform patients about the benefits of transitioning from solely disease-focused care to both disease-focused care and palliative care earlier.

"Clinicians were explaining what palliative care was to ensure that patients understood that just because we are escalating your palliative care doesn't mean we necessarily think you're going to die; it means we think there are things we can do to improve your quality of life," said A/Prof Stuart Ekberg.

"We noticed patients benefit from having that broader understanding of palliative care explained to them, so the patient isn't left with the anxiety and uncertainty of wondering if they're being referred because they're about to die."

To help clinicians with that messaging during the referral process, the palliative care specialists collaborated with Palliative Care Australia, Queensland University of Technology, Queensland Health and The Prince Charles Hospital Foundation to adapt the Palliative Care: It's more than you think resources to produce supplementary materials targeted to clinicians and called them Palliative Care: It's more than they think.

"We wanted to help clinicians at the coalface of treating advanced progressive diseases to understand the range of explanations they could give to patients and their families about palliative care when referring them," said A/Prof Stuart Ekberg.

"As a foundation, it is our goal to enable people to live healthier for longer, and we are so proud to support the generation of knowledge translation resources that may help healthcare workers better understand palliative care and how it could help their patients earlier in their care journey," said Dr Megan Grace, Research Manager, The Prince Charles Hospital Foundation.

The advice and information contained in the materials is relevant to health professionals across Australia and they are available to download for free at the Palliative Care Australia Website.

The materials were also customised to TPCH, in collaboration with the thoracic department. This helps the hospital's clinicians to refer patients to the TPCH palliative care service and other services within the local community.

Nursing Research & Practice Development Centre (NRPDC)

Our nurse-led research team aims to contribute to improved clinical outcomes for patients by inspiring, supporting, and undertaking quality research within the hospital.

HEAD OF THE RESEARCH GROUP

- Professor Paul Fulbrook

RESEARCH GROUP MEMBERS

- Dr Adam Burston
- Jacob Butterworth
- Saroeun Ven
- Maria Pyle

2023 SNAPSHOT

- ★ **Members:** 5 plus visiting researchers
- ★ **Clinical Trials and Studies:** 18+
- ★ **Awards/Grants:** 1 Finalist, 1 Grant
- ★ **Publications:** 18+

TOWARDS BETTER SAFETY & OUTCOMES FOR PATIENTS

Hospital-acquired pressure injuries cause pain to patients, impact their quality of life and can even place patients at risk of increased mortality.

That's why our group's research priority is pressure injury prevention. This important research will ultimately improve outcomes and optimise patient safety within the acute hospital setting.

Our other research work includes fall prevention and wound management projects, which again seek to improve patient care and safety while reducing healthcare service costs and the length of time patients spend in the hospital.

HIGHLIGHTS

Our group undertook more than 18 pressure injury prevention and wound management projects in 2023.

These exciting projects included a hospital-wide pressure injury audit project in collaboration with the Quality Effectiveness Support Team (QuEST); the implementation of an intensive care-specific pressure injury risk assessment scale and preventative intervention bundle; and a wide range of systematic reviews, such as psychometrics of pressure injury risk assessment tools for the intensive care unit and acute patients.

This work has contributed to reducing the impact of pressure injuries and improving patient and hospital outcomes related to significant harm, pain and treatment times.

During the year, our group successfully published 18 research articles in Q1 peer-reviewed journals and presented at several local and international conferences.

Several honours were also received by the group this year. We would like to congratulate NRPDC group member Saroeun Ven, who was a finalist at the 'TPCH Hour of Power', and Aldiana Mehicic, our post-graduate research student who was awarded First Class Honours for her project 'Interrater reliability and concurrent validity of two pressure injury risk assessment tools in an acute hospital setting'.

We are also the proud recipient of a major NHMRC Partnership Project Grant for a sizeable multisite project.

COLLABORATIONS:

2023 saw collaborations with several TPCH-based, state and national multisite project partners. Local collaborators included the Australian Catholic University and Royal Hobart Hospital. While internationally, we collaborated with researchers in China, Turkey and Spain.



Our pressure injury risk assessment tool for intensive care patients is now available in four languages. It can be downloaded for free at the 'World Federation of Critical Care Nurses' website.



Queensland Lung Transplant Service Research Unit

The ultimate aim of our group is to extend the survival and improve the quality of life and outcomes for patients with progressive lung disease and after lung transplantation.

HEAD OF THE RESEARCH GROUP

- Professor Dan Chambers

RESEARCH GROUP MEMBERS

- Dr Simon Apte
- A/Prof Brendan O'Sullivan
- Dr Viviana Lutzky
- Maxine Tan
- Penelope Groves
- Dr Amy Pham
- Sjane Timmins
- Prof Peter Hopkins
- Dr John Mackintosh
- Dr Chandima Divithotewala
- Dr Peter Bell
- Dr LaiYing Zhang
- Levi Hockey

2023 SNAPSHOT

- ★ **Members:** 12+
- ★ **Clinical Trials and Studies:** 13+
- ★ **Awards/Grants:** 1 Winner, 1 Finalist, 6 Grants
- ★ **Publications:** 25+
- ★ **Media mentions:** ABC Radio (Silicosis), TV news (Antifibrotic drug discovery, in collaboration with Griffith University)

AT THE FOREFRONT OF BREAKTHROUGH RESEARCH

Despite significant diagnostic and therapeutic advances over the past decade, many patients still suffer from progressive lung disease, particularly where lung scarring or fibrosis is a predominant feature.

Very recent scientific advances are now set to transform our understanding of the pathogenesis of chronic and fibrosing lung disease and will lead to new diagnostic and therapeutic approaches. These techniques have

dramatically increased the power to detect disease-specific differences from ever smaller clinical samples.

In order to make these advances real, our team is at the forefront of the next revolution in medical treatment mRNA therapeutics. These therapies are set to transform lives by delivering treatments where none have previously existed.

HIGHLIGHTS

Our team worked on a broad range of innovative projects in 2023, including: 'The God Drug' program, which examines reversing cellular aging through telomere elongation; discovering new drugs for pulmonary fibrosis using a unique phenotypic drug screening platform; investigating the impact of cloaking antibodies (cAbs) in life-threatening infection; understanding what causes the most serious lung diseases using scRNAse of lung tissue and cells; and comparative genomic analysis of non-melanotic cutaneous malignancy after transplantation.

Research throughout the year has resulted in breakthroughs in diverse disease areas where there is the greatest unmet clinical need, including lung fibrosis, silicosis, lung aging, gram-negative infection, and lung transplant rejection.

We are grateful for the recognition received by our team in taking home the 'Discovery and Innovation Research Award' at the Metro North HHS Research Excellence Awards 2023 for 'Treatment of multi-drug resistant *Pseudomonas aeruginosa* by removal of 'harmful' antibodies'.

We also extend our congratulations to team members Prof Dan Chambers, Dr Amy Pham, and Dr Chandima Divithotawela, and their collaborators, whose project "The Cloaking Antibodies Treatment" was a Finalist in the Australian Museum's '2023 Eureka Prize for Infectious Diseases Research'.



This year, our small lab hosted 200+ visitors from diverse fields, including industry, government, insurers, regulators, academics, and scientists. These visitors were all linked by their concern about the resurgence of silicosis in Australia and what our research program can do to protect and help Australian workers.

Sleep Health Research Group

We are dedicated to improving clinical outcomes and developing effective models of care for patients with sleep disorders.

HEAD OF THE RESEARCH GROUP

- Dr Deanne Curtin

RESEARCH GROUP MEMBERS

- Dr Irene Szollosi
- Dr Dan Henderson
- Dr Peter Robinson
- Dr George Tay
- Dr Sebastian Le Feuvre
- Dr Sara Winter
- Jan Robinson
- Thomas Georgeson
- Trent Segal
- Dr Danielle Wilson
- Dr Daniel Sullivan
- Sara Croker
- Dr Tim Riddles
- Geoffrey Doyle

2023 SNAPSHOT

- ★ **Members:** 10+
- ★ **Clinical Trials and Studies:** 22



ENSURING BEST PRACTICE FOR EMERGING MODELS OF CARE

Our overall objective is to improve clinical outcomes and develop effective models of care for patients with sleep disorders, including those with complex ventilatory requirements due to neuromuscular disorders.

As awareness of sleep disorders increases, along with the demand for sleep diagnosis and treatment services, our group is developing and evaluating clinical pathways and treatments that make the diagnosis and treatment of obstructive sleep apnoea (OSA) more rapid and accessible for all patients including those in regional and remote areas.

There are many new and emerging methods to diagnose sleep disorders, and technological advances are making it increasingly easier to monitor treatments remotely. As this progress opens the way to new models of care, our research will ensure these models are thoroughly evaluated to ensure best practice is supported by evidence.

HIGHLIGHTS

During 2023, our group undertook a total of 22 projects, including a study to examine the mechanisms of cognitive decline in OSA, a pilot study to evaluate six months of CPAP on markers of cerebral small vessel disease in patients with OSA and mild cognitive impairment, and a RAPID-OSA Study entitled 'Remote ApneaLink Providing Immediate Diagnosis of Obstructive Sleep Apnoea'.

While much of this research is ongoing, group members presented three studies at the Australasian Sleep Association Annual Conference, where Dr Irene Szollosi took home the 'Best Poster' award for her work in evaluating the cost effectiveness of a hub-and-spoke model of care to deliver sleep disorder services to remote Queensland.

We are also pleased to announce the commencement of new collaborations with the Griffith University Psychology Department and welcome Dr Danielle Wilson into the group, who is undertaking a study examining high-resolution measurement of sleep position during pregnancy and the impact on infant birthweight supported by a Metro North University of Queensland collaborative grant.



We congratulate group member Thomas Georgeson for receiving the 2023 'TPCH Hour of Power Paul Zimmerman New Investigator Award'.

The University of Queensland Thoracic Research Centre

Our group is focused on undertaking clinical, translational and scientific research to improve lung health.

HEAD OF THE RESEARCH GROUP

- Professor Kwun Fong

RESEARCH GROUP MEMBERS

Senior Researchers

- Professor Ian Yang
- Associate Professor Henry Marshall
- Associate Professor Rayleen Bowman

Clinical Research Team

- Dr Barbara Page
- Dr Kelly Chee
- Ms Maria Martins
- Ms Linda Passmore
- Ms Jaccalyne Brady
- Ms Jenny Peek
- Ms Anita Goldsworthy
- Mr Peter Vardon
- Ms Caeli Zarah
- Ms Elizabeth Keir

Current PhD students

- Ms Janet Shaw
- Ms Eloise Shaw
- Dr Gerry Olive
- Ms Hollie Bendotti
- Dr Marissa Daniels
- Mr Edward Stephens
- Ms Jazmin Mireya Guayco Sigcha

Master of Philosophy Students

- Dr Edwina Duhig
- Dr Nikita Patel

2023 SNAPSHOT

- ★ **Members:** 23+
- ★ **Clinical Trials and Studies:** 13

RESEARCH TO IMPROVE LUNG HEALTH

Based at The Prince Charles Hospital (TPCH), our multidisciplinary research team includes medical staff, research nurses, a research laboratory, plus administration and management roles.

We seek to improve patients' lung health, and our work focuses on clinical, translational, and scientific research related to lung cancer, mesothelioma, and chronic airway diseases like chronic obstructive pulmonary disease (COPD) and asthma, and a shared aetiology, smoking.



Our cutting-edge research centre features a fully functional molecular laboratory that's capable of most molecular genetic techniques. Here, we administer the extensive TPCH Lung Biobank, which supports our lung research with specimens that have been collected over a 20-year period.

HIGHLIGHTS

Our group undertook more than 13 projects in 2023, including the 'International Lung Screen Trial', a project to enhance smoking cessation with an innovative mobile health avatar, and the 'CO-RiQUIRE' project, which addresses lung cancer screening knowledge gaps. Our 'Screen to Quit' multicentre RCT also commenced in 2023.

During the year, we made good progress in translational research in lung health using a multidisciplinary approach to studying lung cancer, mesothelioma, COPD, asthma, smoking cessation and gene-environment interaction.

Highlights from our research appeared in peer-reviewed publications, while we continued research training of our PhD and MPhil students, along with training of medical students in research skills. During the year, several group members also made significant presentations at national and international scientific conferences, and members' papers were included in national and international clinical guidelines.



Thanks to The Prince Charles Hospital Foundation and The University of Queensland, our laboratory has procured a state-of-the-art digital PCR machine. This will allow us to undertake accurate genomic analysis of lung, blood, and other tissue samples from participants with lung conditions.



➤ *The knowledge generated from this research will support TPCH clinicians to provide the best care for lung cancer patients through effective and prompt detection of curable lung cancers and cancer progression, enabling earlier intervention before the cancer advances to an incurable stage.*

Dr Kelly Chee

FEATURED ARTICLE

Dr Kelly Chee, TPCHF Research Fellowship Recipient

Lung cancer causes the greatest number of cancer-related deaths in Australia, and this isn't surprising, with the Lung Foundation saying that around 85% of people are diagnosed at a late stage. Dr Kelly Chee hopes that her research and the research of her peers will see these statistics significantly improved.

In 2023, Dr Kelly Chee, who has worked at UQ Thoracic Research Centre within the TPCH Clinical Sciences building since 2012, was awarded a Research Fellowship from The Prince Charles Hospital Foundation.

Her fellowship aims to improve the detection of lung cancer through low-risk, minimally invasive medical procedures such as blood tests and routine bronchoscopies.

She hopes to do this by using the biomaterials collected from these as a resource for the detection of lung cancer, to identify lung cancer mutations – in particular, KRAS and EGFR mutations – that are targetable with treatment, and to better determine the disease's progression before it reaches an incurable stage.

"There are treatments designed to target these mutations to make it more effective and therefore improve the patient response to the treatment and ultimately improve the patient's survival," said Dr Chee.

At present, early assessments for lung cancer detection involve CT scans and bronchoscopy. Those thought to have lung cancer but haven't had it diagnosed by those means may need surgery to remove lung tissue for testing.

"Over the years, lung cancer treatment has advanced a lot, but there are still issues that haven't been solved. For patients who undergo lung resection surgery, their quality of life is reduced because part of their lung

is taken out. There could be things that we could do to prevent the patients from needing to undergo this surgery. Plus, we want to improve survivability, treatment options and quality of life for people with lung cancer," said Dr Chee.

Dr Chee explains that those who undergo surgery to obtain a sample for testing can face an anxious wait for results. And if the sample isn't sufficient, they may need a second round of surgery. While her fellowship is only in its infancy, she spent time in 2023 building on a study made possible through a Foundation Innovation grant in 2022, which focuses on nanopore sequencing of bronchoscopy fluids.

Illumina sequencing, which incorporates fluorescent dye to determine the series of base pairs in DNA, has been around for many years and is the gold standard for diagnostic testing of lung cancer at the moment. In contrast, Nanopore sequencing detects changes in the current unique to a DNA or RNA molecule as it passes through the nanopore.

"The benefits of nanopore sequencers are that they are newer, allow for real-time analysis of data, and more and more evidence supports their use to sequence a smaller genome or for a more targeted research aim. The second benefit is that it is a small, pocket-sized sequencer, so there is the potential to implement this in clinics on the spot or remotely and this could improve the speed, and efficiency of receiving test results. This would mean we could plan the best treatment option for the patient earlier. However, right now, this is still an immature technology for use in the clinic, requiring further testing and validation."

"In 2023, we tried to understand the technology and how to use it and analyse the data. We have sequenced a few samples and can see the sequence visually on the computer. This gives me confidence, but there's still much to do to determine how I could use this technology to achieve my research aim."



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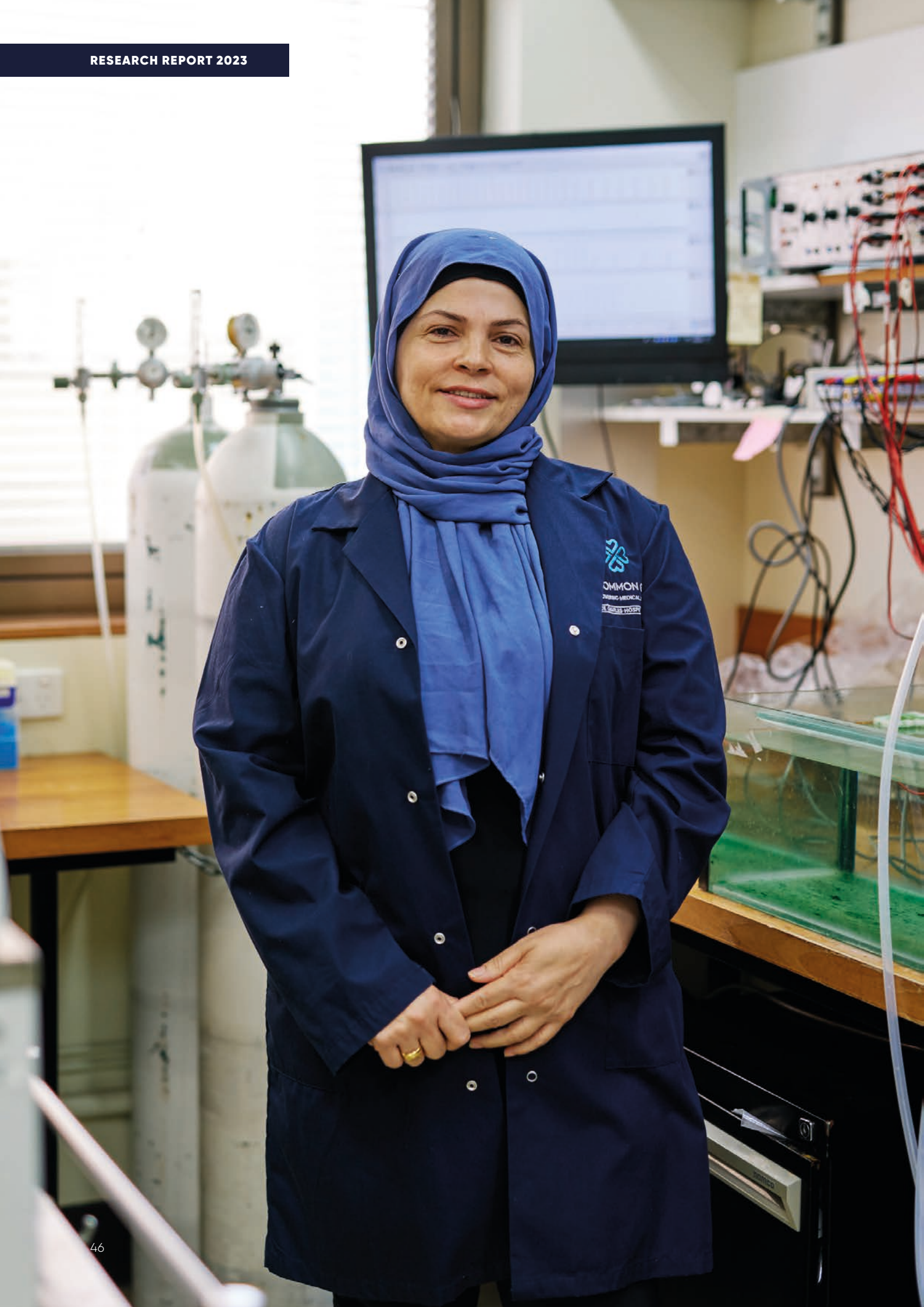
2023 Grants Awarded by The Common Good

Grant Type	Recipient	Project Title	Amount Awarded
Equipment	Adult ED	Ultrasound transducer	\$68,556.00
Equipment	Amanda Love	RECOGNISE App framework upgrade	\$3,900.00
Equipment	Cardiology Program	Point of care ultrasound system	\$65,132.55
Equipment	Dan Chambers	Whole Lung Lavage Vibrating Vest	\$12,000.00
Equipment	Dan Chambers	Cell Sorter, PCR Machine, Liquid Nitrogen tanks	\$525,569.04
Equipment	Gabriella Abbate	OxyLite™/OxyFlo™ combined 4 Channel tissue pO2 and temperature monitor	\$58,863.88
Equipment	Jacki McPherson, Senthil Muthuswamy	Mental Health Wellness Room	\$14,481.00
Equipment	Margaret Passmore	-80 Freezer	\$20,165.00
Equipment	Maria Martins	Absolute Q Digital Polymerase Chain Reaction (ddPCR) System	\$51,969.00
Equipment	Peter Molenaar	Tissue Slice Contractility, Nanion CardioExcyte 96, Tissue electrode blocks, LSR II Flow Cytometer	\$590,368.00
Equipment	Surgery Wards	3x echocardiograph machines, Bladder scanner	\$76,088.00
Equipment	Tracy Nowicki	Provision Subepidermal Moisture sensor device and consumables	\$15,980.00
Innovation and Capacity Building Grant	David Reid, Lisa Jurak	Shining a Light on Lung infections in cystic fibrosis: Infrared Spectroscopy to identify respiratory pathogens in the absence of sputum	\$14,624.00
Innovation and Capacity Building Grant	Peter Molenaar	Keeping Failing Hearts Beating - Research towards the Prevention of Sudden Cardiac Death	\$28,800.00
Innovation Grant	Gabriele Fior	BIOfluid-induced Lung injury: a nOvel pathOgenic mechanism in acute respiratory Distress syndrome (the BIO-FLOOD study)	\$69,984.00
Innovation Grant	Ieuan Evans	A population pharmacokinetic study of elexacaftor, tezacaftor and ivacaftor (Trikafta) in patients with Cystic Fibrosis with the development of therapeutic drug monitoring targets	\$97,506.15
Innovation Grant	Jack Bell	Co-designed, transdisciplinary, multi-component care for frail, malnourished older adults post hip fracture - a before and after implementation study	\$44,457.00
Innovation Grant	Norman Morris	High on Heart Failure: Using Altitude training to improve oxygen transport in heart failure	\$70,823.00
Innovation Grant	Prof Daniel Chambers	Silicosis- Health Monitoring to Eliminate Lung Dust Disease (SHIELDED)	\$96,265.00
Innovation Grant	Prof Ian Yang	Changes in the lung microbiome with use of inhaled steroids in chronic obstructive pulmonary disease (COPD)	\$100,000.00
Innovation Grant	Stephen Parker	Predicting mental health related emergency department re-presentations and subsequent hospitalisation: Logistic regression modelling of re-presentation within 48 hours, 7-days, and 28-days	\$89,096.78
Innovation Grant	Usha Gurunathan	CARDIAC Surgery PReoperative INspiratory muscle Training (Cardiac SPRINT): a feasibility study	\$36,411.13
Innovation Grant	Viviana Lutzky	Oxidised cholesterols as key mediators of fibrotic lung disease	\$98,500.00
New Investigator	Angelo Milani	Assessment of kidney damage in a model of cardiogenic shock treated with pulsatile VA-ECMO: does improved microcirculation protect from renal injury?	\$9,820.25

2023 Grants Awarded by The Common Good continued...

Grant Type	Recipient	Project Title	Amount Awarded
New Investigator	Bishwo Shrestha	Rheumatic Fever and Rheumatic Heart Disease: Quantum of Public Awareness as a Tool for Primary Prevention of the disease – A Pilot Study	\$10,000.00
New Investigator	Carl Francia	Incidence and prevalence of acute rheumatic fever and rheumatic heart disease in Queensland (2017–2021): A retrospective data linkage study	\$9,495.43
New Investigator	Felicity Loel	Contemporaneous Management of Percutaneous Endoscopic Gastrostomies in Adults with Cystic Fibrosis	\$9,846.72
New Investigator	James Nolan	Forced Oscillometry Technique to improve detection and management of pulmonary exacerbations in adults with cystic fibrosis	\$10,000.00
New Investigator	Jazmin Guayco Sigcha	Plasma and serum miRNAs for lung cancer screening	\$9,978.00
New Investigator	Julieta Castellini	Core Beliefs and Coping in Cystic Fibrosis, and How These Relate to Health and Adherence	\$9,833.00
New Investigator	Robyn Cobb	The impacts of self-initiated modifications of maintenance physiotherapy on clinical stability in people with cystic fibrosis commencing Elexacaftor – Tezacaftor-Ivacaftor	\$9,545.00
New Investigator	Samia Farah	A Comparative Assessment of the Distribution of Antibiotics in Pulsatile- and Continuous-Flow Venous-arterial Extracorporeal Membrane Oxygenation: An Ovine Model of Severe Cardiogenic Shock	\$9,730.00
New Investigator	Sarah Mackay	Malnutrition – Call it what it is or something else?	\$9,991.30
New Investigator	Thomas Georgeson	Cognitive impairment and residual risk in patients with OSA before and after 2 months of CPAP intervention	\$9,990.00
New Investigator	Trent Segal	A pre-post trial evaluating the impact of co-designed educational materials on health literacy and Continuous Positive Airway Pressure (CPAP) compliance in patients with Obstructive Sleep Apnoea (OSA)	\$10,000.00
New Investigator	Zohaib Nadeem	Genetic pathways underlying sepsis tolerance in an ovine model of bacterial sepsis.	\$8,950.65
PhD Scholarship	Levi Hockey	AI interpretation of pathology, cytology and imaging to aid in diagnosis and prognosis of silicosis	\$75,000
PhD scholarship	Luke Churchill	Can lung ultrasound predict post-operative pulmonary complications in the adult cardiac surgery population, alter physiotherapy practice and improve patient outcomes?	\$96,576.00
PhD scholarship	Saroeun Ven	Pressure injury risk assessment for palliative care patients in the acute hospital setting	\$96,576.00
Program Support	Clayton Semenzin	ICETLab Research Group Program Support	\$100,000
Program Support	Dan Chambers	QLTS Research Group Program Support	\$280,000
Program Support	Perry Judd	AHRC Research Group Program Support	\$130,000
Project Grant	Dylan Flaws	Metro North Mental Health Short Stay Unit Evaluation	\$200,000
Project Grant	Hannah Gullo	Child Life Therapist Evaluation	\$10,000.00
Project Grant	Haris Haqqani	Genetic Counsellors	\$240,000.00
Project Grant	Norm Morris	Optimising Exercise Prescription and Delivery in Congenital Heart Disease – The Congenital Heart Fitness Intervention Trial: CH-FIT	\$80,000
Research Fellowship	Jacky Suen	Salary Support	\$245,000
Research Fellowship	Kafa Walweel	Keeping Failing Hearts Beating	\$245,000
Research Fellowship	Melanie Spratt	Developing and validating a model of human arrhythmia via human-induced pluripotent stem cell-cardiomyocytes for high-throughput drug screening	\$330,000.00
Research Fellowship	Tian Mun Chee	New strategies in lung cancer diagnostics by more accurate and sensitive detection methods	\$330,000.00





Active Grants 2023

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Jordan	Emergency Medicine Foundation	Capacity Building in TPCH Emergency	2023-2025	\$93,337.00		Capacity Building Grant
Jordan	The Prince Charles Hospital Foundation	Capacity Building in TPCH Emergency top up	2023-2025	\$40,000.00		Capacity Building Grant
Jordan, Fulbrook	Emergency Medicine Foundation	Research Capacity Building Grant	2023	\$102,671.00	\$102,671.00	Capacity Building Grant
Burston, Geale, Pierce, Steele, Parrish, Achterbosch	ACU Teaching Development Grant	Fostering the development of moral sensitivity in undergraduate health science students	2023	\$12,911.00	\$12,911.00	Education Grant
Pearse	CSL Behring (Australia) Pty Ltd	Use of three-factor prothrombin complex concentrate in cardiac surgery	2020-current	\$10,000.00	\$10,000.00	Education Grant
Martins	The Prince Charles Hospital Foundation	Absolute Q Digital PCR System	2023	\$51,969.00	\$51,969.00	Equipment
Molenaar	Sheila & Bernard Joel Life-Saving Medical Equipment Foundation	Equipment	2023-2024	\$590,368.00	\$590,368.00	Equipment
Passmore	The Prince Charles Hospital Foundation	Minus 80 Freezer	2023	\$20,165.00	\$20,165.00	Equipment
Fong, Yang, Marshall, Bowman, O'Rourke, Valery, Stone, Canfell, Weber, Garvey, Lam, Tammemagi, Otty, Sabesan, Brims, McWilliams	Australian Cancer Research Foundation	Lung Cancer Screening CENTRE OF EXCELLENCE	2022-2025	\$2,000,000.00		Equipment
Abbate	The Prince Charles Hospital Foundation	OxyLite/OxyFlo	2023	\$58,863.88	\$58,863.88	Equipment Grant
Spratt	The Prince Charles Hospital Foundation	Developing and Validating a model of human arrhythmia via human induced pluripotent stem cell cardiomyocytes for high throughput drug screening	2024-2027	\$330,000.00		Fellowship
Calleja	Queensland Health Research Fellowship	MiniMAGIC Implementation in Rural, Remote, Metropolitan and Regional Settings (MIRRORS study): Improving intravenous catheter selection to reduce extravasations for children	2023-2024	\$43,755.60		Fellowship
Chee	The Prince Charles Hospital Foundation	New strategies in lung cancer diagnostics by more accurate and sensitive detection methods	2024-2026	\$330,000.00		Fellowship
Fong	National Health and Medical Research Council	Early diagnosis and treatment of lung cancer Fellowship	2019-2024	\$487,893.00	\$9,495.43	Fellowship
Fraser	The Prince Charles Hospital Foundation	Effect of mitochondrial transplantation following hypothermic machine perfusion on donor heart ischemic time	2023	\$220,000.00	\$220,000.00	Fellowship
Lazzarini	National Health and Medical Research Council	NHMRC Early Career Fellowship	2018-2023	\$322,952.00	\$80,738.00	Fellowship

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Liu	The Prince Charles Hospital Foundation	A novel and Innovative Therapeutic Strategy for Severe Acute Respiratory Distress Syndrome during Extracorporeal Membrane Oxygenation support - Amendment	2022-2025	\$330,000.00	\$110,000.00	Fellowship
Marshall	Queensland Advancing Clinical Research Fellowships	CO-RiQUIRE (COmorbidity, Risk, QUIT, REach) - addressing lung cancer screening knowledge gaps	2020-2023	\$300,000.00		Fellowship
Morris	Health and Research Office of Queensland	Exercise Training in Pulmonary Hypertension (ExTra_PH): A Randomised Controlled Trial of Exercise Training in Pulmonary Hypertension	2015-2023	\$247,000.00	\$16,000.00	Fellowship
Ranasinghe	Queensland Advancing Clinical Research Fellowship	Urinary Sodium Guided Titration of Diuretic Therapy	2022-2025	\$350,000.00		Fellowship
Stewart	The Prince Charles Hospital Foundation	TPCH Fellowship	2021-2023	\$300,000.00	\$100,000.00	Fellowship
Suen	The Prince Charles Hospital Foundation	Salary Support	2023-2026	\$225,000.00	\$56,250.00	Fellowship
Terrill, Woodruff, Lazzarini	National Health and Medical Research Council	NHMRC Postgraduate scholarship	2021-2025	\$110,702.00	\$22,140.00	Fellowship
Walweel	The Prince Charles Hospital Foundation	Keeping Failing Hearts Beating	2023-2026	\$225,000.00	\$75,000.00	Fellowship
Raffel	Medtronic	Quality Of Life And Safety With Repeated Subcutaneous Administration Of Ponegromab Versus Placebo In Adult Participants With Heart Failure	2021-current	\$6,979.50	\$3,129.50	Industry Sponsored
Curtin, Szollosi, Winter	Servatus	A Phase I/II Randomised, Double-Blind, Placebo-Controlled Study to Assess Safety and Efficacy of a Live Biotherapeutic Product (SVT-4A1011) in Participants with Clinically Diagnosed Insomnia	2021-2023	\$215,946.00		Industry Sponsored
Dautov	Nanotherapies	ADVANCED NanoTherapies Dual Active Pharmacological Ingredient (Dual-API) Drug-Coated Balloon to treat De-Novo lesions in patients with symptomatic stable coronary artery disease). This study is evaluating a new device called the Dual-API SirPlux Duo™	2022-current	\$73,210.50		Industry Sponsored
Dautov	SAHMRI	The COLchicine for COronary Plaque MOdification in Acute Coronary Syndrome study	2019-2023	\$17,941.88	\$1,776.50	Industry Sponsored
Dautov	Impella	The IMPella CP RegisTry of Australia	2019-current	\$10,000.00		Industry Sponsored
Dautov	Investigator Driven	PlaQe Features and Function improve risk strAtification for future coronary events: the PUFFbAll study	2022-current	\$2,289.96	\$1,739.96	Industry Sponsored
Denman	Medtronic	Lead EvaluAtion for Defibrillation and Reliability (ICD or CRT-D)	2021-current	\$54,952.96	\$29,187.43	Industry Sponsored
Denman	George Institute	Programmed Ventricular Stimulation to Risk Stratify for Early Cardioverter-defibrillator Implantation to Prevent Tachyarrhythmia following Acute Myocardial Infarction	2012-current	\$2,750.00		Industry Sponsored

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Fraser	Fisher and Paykel	COVID Critical support	2020-2024	\$255,000.00		Industry Sponsored
Gaikwad	"Labcorp/Boehringer"	A streamlined, multicentre, randomised, parallel group, double-blind placebo-controlled superiority trial to evaluate the effect of EMPagliflozin on hospitalisation for heart failure and mortality in patients with aCuTe Myocardial Infarction	2022-current	\$123,072.28	\$74,052.11	Industry Sponsored
Gaikwad	Leuven Research and Development	STREAM-2 (STrategic Reperfusion in elderly patients Early After Myocardial Infarction)	2021-current	\$825.00		Industry Sponsored
Haqqani	Western Sydney Local Health District	Catheter Ablation versus Anti-arrhythmic Drugs for Ventricular Tachycardia (CAAD-VT): A Randomised Trial	2021-current	\$1,529.00		Industry Sponsored
Haqqani	Investigator Driven	Utility of Electrophysiology Study for Risk Assessment after Transcatheter Aortic Valve Implantation	2021-current	\$22,858.91	\$1,683.00	Industry Sponsored
Haqqani	Medtronic	ExtraVascular Implantable Cardioverter Defibrillator (EV ICD) Pilot Study. - Single-chamber	2018-current	\$0.00		Industry Sponsored
Haqqani	Boston Scientific	Real world Data collection in subjects treated with the FARAPULSE™ Pulsed Field Ablation system when used per hospitals' standard of care	2023-current	\$8,800.00	\$8,800.00	Industry Sponsored
Haqqani	Investigator Driven	A New ECG configuration to Improve the Diagnostic Accuracy of Idiopathic Outflow Tract Ventricular Arrhythmias	2020-current	\$0.00		Industry Sponsored
Haqqani	Boston Scientific	PREcision Event Monitoring of PatientTs with Heart Failure using HeartLogic	2019-current	\$39,283.10		Industry Sponsored
Haqqani	Abbott	TACTIFLEX for the treatment of drug refractory, symptomatic paroxymal atrial fibrillation	2020-2023	\$43,639.23	\$3,630.00	Industry Sponsored
Haqqani	Abbott	COLT-AF CE MARK: safety and effectiveness of the Volt PFA system for the treatment of PAF and PersAF	2023-current	\$5,500.00	\$5,500.00	Industry Sponsored
Horvath	Investigator Driven (TPCH Foundation)	Accelerated Treatment in Endocarditis - investigate the safety and efficacy of shortening treatment of endocarditis based on the individual patient's initial treatment response	2021-current	\$29,743.00		Industry Sponsored
Li Bassi	Venstra Medical Pty Ltd	Efficacy, Feasibility and Safety of the VenstraMedical SAVA percutaneous Ventricular Assist Device system: an experimental ovine model	2023	\$62,675.16	\$62,675.16	Industry Sponsored
Li Bassi	Apisafe	In-Vitro evaluation of Apisafe naso-gastric tube	2020-current	\$23,125.72		Industry Sponsored
McKenzie	Procyrion	An Evaluation of the Safety and Performance of the Aortix System for Percutaneous Intra-Aortic Mechanical Circulatory Support in Patients with Acute Decompensated Heart Failure refractory to Medical Management	2020-2023	\$37,736.00	\$4,995.78	Industry Sponsored
McKenzie	Procyrion	Aortix Therapy for Perioperative Reduction of Kidney Injury Study	2023-2023	\$29,118.83	\$29,118.83	Industry Sponsored

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
McKenzie	Medpace	Aldose Reductase Inhibition for Stabilization of Exercise capacity in Heart Failure (ARISE-HF): A Multicenter, Randomized, Placebo-Controlled Study to Evaluate the Safety and Efficacy of AT-001 in Patients with Diabetic Cardiomyopathy / Stage B Heart Failure at High Risk of Progression to Overt Heart Failure (Stage C Heart Failure)	2020-2023	\$21,159.69	\$1,000.00	Industry Sponsored
McKenzie	St Jude Medical	CardioMEMSTM HF System Post-Approval Study	2016-2023	\$98,782.68	\$2,200.00	Industry Sponsored
McKenzie	Astra Zeneca	A Randomised, Double-blind, Placebo-controlled, Multi-center Sequential Phase 2b and Phase 3 Study to Evaluate the Efficacy and Safety of AZD4831 Administered for up to 48 Weeks in Participants with Heart Failure With Left Ventricular Ejection Fraction > 40%	2022-current	\$71,110.89	\$56,861.45	Industry Sponsored
McKenzie	Investigator Driven	Asia Pacific Fabry Disease. Observational Retrospective Study. FD and imaging (Echo and MRI)	2019-current	\$0.00		Industry Sponsored
McKenzie	Bayer	A multicenter, randomized, double-blind, parallel-group, placebo-controlled study to evaluate the efficacy and safety of finerenone on morbidity and mortality in participants with heart failure (NYHA II-IV) and left ventricular ejection fraction \geq 40% (LVEF \geq 40%)	2021-current	\$101,718.50	\$36,505.70	Industry Sponsored
McKenzie	Pfizer	A Phase 2, double-blind, randomized, placebo-controlled, 4-arm study to investigate symptoms, function, health-related QoL and safety with repeated SQ ponsengromab vs placebo in adults with HF	2022-current	\$16,445.00	\$16,445.00	Industry Sponsored
McKenzie	CSIRO/ TPCH Foundation	A mobile based multidisciplinary virtual clinic for patients with HF: A Controlled Randomised Trial, MoTER-HF	2020-current	\$44,103.44		Industry Sponsored
McKenzie	Australian Atherosclerosis Society	Familial Hypercholesterolaemia	2017-current	\$0.00		Industry Sponsored
Mckenzie	Bayer	Multicenter, randomized, active comparator-controlled, double-blind, double-dummy, parallel group phase III study of the oral FXIa inhibitor BAY 2433334 for the prevention of stroke or systemic embolism in patients with atrial fibrillation	2022-current	\$77,330.00	\$52,910.00	Industry Sponsored
Mckenzie	Bristol Myer Squibb (BMS)	A Randomized, Double-blind, Placebo-controlled Clinical Study to Evaluate Mavacamten in Adults with Symptomatic Non-obstructive Hypertrophic Cardiomyopathy	2022-current	\$51,455.59	\$23,335.79	Industry Sponsored
McKenzie	Novartis	A multi-center, randomized, double-blind, active-controlled, parallel-group Phase 3 study to evaluate the efficacy and safety of LCZ696 compared to ramipril on morbidity and mortality in high risk patients following an acute myocardial infarction	2017-current	\$225,393.00		Industry Sponsored

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
McKenzie	Novartis	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	2018-current	\$50,705.98		Industry Sponsored
McKenzie	Corvia	Reduce Lap-HF Randomised Trial II: A study to evaluate the Corvia Medical, Inc. IASD® System II to REDUCE Elevated Left Atrial Pressure in Patients with Heart Failure	2017-current	\$0.00		Industry Sponsored
McKenzie	VWAVE	Reducing Lung Congestion Symptoms using the V-Wave shunt in Advanced Heart Failure (the Shunt is intended to reduce excessive left-sided cardiac filling pressures)	2021-current	\$169,671.21	\$26,948.35	Industry Sponsored
McKenzie	Investigator Driven	The feasibility of the home-based remote monitoring for post-discharged heart failure patients	2023-current	\$63,500.00	\$63,500.00	Industry Sponsored
McKenzie	CORVIA	Re-Evaluation of the Corvia Atrial Shunt Device in a Precision Medicine Trial to Determine Efficacy in Mildly Reduced or Preserved EF Heart Failure	2023-current	\$33,897.60	\$33,622.60	Industry Sponsored
McKenzie	MSD	A Pivotal Phase 3 Randomized, Placebo-controlled Clinical Study to Evaluate the Efficacy and Safety of the sGC Stimulator Vericiguat/MK-1242 in Adults With Chronic Heart Failure With Reduced Ejection Fraction	2021-current	\$194,568.20	\$103,027.47	Industry Sponsored
McKenzie, Halim	SANOFI	Utilisation of diastolic strain by 2D speckled-tracking echocardiography for the assessment of left ventricular wall thickening	2020-current	\$50,000.00		Industry Sponsored
Molenaar, Cheesman	Atrogi AB	Determination of Off-target effects of novel compounds on the human heart	2023-2024	\$39,893.57		Industry Sponsored
Murdoch	Boston Scientific	The study will evaluate feasibility and safety of the ACURATE Prime XL Transfemoral Aortic Valve System for TAVI in subjects who have severe native aortic stenosis and are indicated for TAVI	2021-2023	\$114,739.01	\$24,603.91	Industry Sponsored
Murdoch	University of Leicester	A randomised controlled trial of early valve replacement in severe asymptomatic AS	2023-current	\$2,464.00	\$2,464.00	Industry Sponsored
Murdoch	Edwards Lifesciences	SAPIEN M3 System TransCatheter Mitral Valve ReplaCement via Transseptal AccEss	2021-current	\$213,348.16	\$115,419.15	Industry Sponsored
Murdoch	Medtronic	Optimize PRO TAVR Post Market Study	2022-2023	\$16,963.76	\$6,960.36	Industry Sponsored
Poon	Edwards Lifesciences	A Prospective, Single-Arm, Multicentre Study to Investigate the Safety and Effectiveness of SAPIEN 3 Transcatheter Heart Valve Implantation in Patients with a Failing Mitral Bioprosthetic Valve	2019-current	\$73,826.00	\$8,566.25	Industry Sponsored
Poon	Edwards Lifesciences	A Prospective, Randomized, Controlled Trial to Assess the Management of Moderate Aortic Stenosis by Clinical Surveillance or Transcatheter Aortic Valve Replacement	2022-current	\$79,690.23	\$59,877.14	Industry Sponsored

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Poon	Boston Scientific	Stroke Protection with Sentinel During Transcatheter Aortic Valve Replacement	2020-2023	\$89,413.50		Industry Sponsored
Raffel	CSL Behring	A Phase III, multicentre, double-blind, randomized, placebo-controlled, parallel-group study to investigate the efficacy and safety of CSL112 in subjects with Acute Coronary Syndrome	2018-2023	\$15,375.39	\$5,967.50	Industry Sponsored
Raffel	Edwards Lifesciences	Edwards PASCAL TrAnScatheter Mitral Valve RePair System Study	2017-2023	\$123,532.78	\$4,823.50	Industry Sponsored
Raffel	Esperion	A randomised, Double-Blind, Placebo-Controlled Study to Assess the Effects of Bempedoic Acid (ETC-1002) on the Occurrence of Major Cardiovascular Events in Patients With, or at High Risk for, Cardiovascular Disease who are Statin Intolerant	2019-2023	\$34,731.40		Industry Sponsored
Raffel	Labcorp	Open-Label, Sequential-Dose Escalation/De-escalation Trial Testing Investigational Medicinal Product (IMP) in Patients Undergoing PCI Due to Acute Coronary Syndrome with NSTEMI (PHASE II)	2023	\$33,091.66	\$14,226.66	Industry Sponsored
Raffel	Boston Scientific	A study to evaluate the feasibility and safety of the Millipede Transcatheter Annuloplasty Ring System in Patients with Functional Mitral Regurgitation	2020-current	\$26,715.06		Industry Sponsored
Raffel	Monash	PASSivation of Vulnerable plaque with AZD5718 in AcuTe coronary syndromE	2022-2023	\$9,256.50	\$9,256.50	Industry Sponsored
Raffel	St Jude Medical	International long-term follow-up study of patients implanted with a PORTICO™ valve	2013-2023	\$106,662.26	\$4,950.00	Industry Sponsored
Raffel	St Jude Medical	Portico™ Re-sheathable transcatheter Aortic Valve System US IDE Trial	2016-current	\$259,260.74	\$7,157.15	Industry Sponsored
Raffel	Medpace	Obicetrapib and Cardiovascular Outcomes: A Placebo-Controlled, Double-Blind, Randomized Phase 3 Study to Evaluate the Effect of 10 mg Obicetrapib in Participants With Atherosclerotic Cardiovascular Disease (ASCVD) Who are Not Adequately Controlled Despite Maximally Tolerated Lipid-Modifying Therapies	2022-current	\$31,656.15	\$16,507.04	Industry Sponsored
Raffel	Abbott	Safety and effectiveness of the ABT NG DES 48 everolimus-eluting coronary stent system (EECSS) in improving coronary artery luminal diameter in subjects with CAD due to de novo native coronary artery long lesions	2020-current	\$33,511.32	\$10,508.05	Industry Sponsored
Raffel	Johnson & Johnson	Wavecrest Vs Watchman Transseptal LAA Closure to Reduce AF-Mediated Stroke 2	2018-current	\$14,184.50		Industry Sponsored
Ranasinghe	RNSH Cardiology	Australian Cardiovascular COVID-19 Database	2020-2023	\$5,250.00		Industry Sponsored
Ranasinghe	Novartis	A randomized double-blind, placebo-controlled, multicenter trial assessing the impact of lipoprotein (a) lowering with TQJ230 on major cardiovascular events in patients with established cardiovascular disease	2020-current	\$118,466.66	\$25,049.72	Industry Sponsored

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Ranasinghe	Novartis	A multi-center, randomized, double-blind, parallel-group, 20-week dose-finding study to evaluate efficacy, safety, and tolerability of XXB750 in patients with resistant hypertension	2022-current	\$20,994.60	\$14,720.20	Industry Sponsored
Ranasinghe	Novartis	A multi-center, randomized, double-blind, placebo-controlled, parallel-group Phase IIIb study evaluating the effect of inclisiran on atherosclerotic plaque progression assessed by coronary computed tomography angiography (CCTA) in participants with a diagnosis of non-obstructive coronary artery disease without previous cardiovascular events	2022-current	\$42,085.50	\$20,335.70	Industry Sponsored
Scalia	Investigator Driven	Comparative Catheter Echocardiographic Hemodynamics Program	2017-current	\$92,049.07		Industry Sponsored
Scalia	Investigator Initiated Registry	Asia-Pacific multi-centre international observational registry of patients with mitral regurgitation treated with the MitraClip	2014-current	\$0.00		Industry Sponsored
Scalia	NEDA	The National Echo Database Australia	2017-current	\$0.00		Industry Sponsored
Walters	SAHMRI	Australasian Cardiac Outcomes Registry Ltd TAVI Registry	2018-current	\$0.00		Industry Sponsored
Walters	Mobius Medical	Clinical Safety and Efficacy of the VDyne Transcatheter Tricuspid Valve Replacement System for the Treatment of Tricuspid Regurgitation	2023-current	\$8,956.70	\$8,296.70	Industry Sponsored
Wong	SAMHRI/ Luitpold	A Randomised, Double-Blind, Placebo Controlled Study to Investigate the Efficacy and Safety of Injecrafer® (Ferric Carboxymaltose) as a Treatment for Heart Failure with Iron Deficiency	2018-2023	\$343,145.30	\$17,123.37	Industry Sponsored
Wong	Pfizer	Prevalence and characteristics of transthyretin amyloidosis in patients with left ventricular hypertrophy of unknown etiology (TTRACK)	2020-2023	\$114,739.01	\$9,169.60	Industry Sponsored
Hodgson, Fraser, Baker, Nair, Bernard, Pilcher, Pellegrino, Brodie	Medical Research Future Fund	A National Intensive Care Research Data Initiative (NICE-Data)	2023	\$2,717,605.00		Infrastructure Grant
Chambers	Radiata Foundation	Reprogramming profibrotic macrophages to treat IPF	2023	\$823,208.00	\$194,760.00	Program Grant
Chambers, Timmins	The Prince Charles Hospital Foundation	QLTS Research Group Program	2023	\$280,000.00	\$93,333.00	Program Grant
Dargusch, Wrigley, Fraser	Medical Research Future Fund	Artificial Heart Frontiers Program	2023	\$5,198,554.00		Program Grant
Fraser	Melinda and Bill Gates Foundation	COVID Research Support	2021-current	\$1,621,791.00		Program Grant
Hodgson, Quilten, Higgins, Heritier, Ryan, Neto, Burrell, Nichol, Cooper, Pellegrino, Udy, Livingstone, Young, Fraser, Nair, Buscher, Fan, Orford	Medical Research Future Fund	Generating new evidence to reduce complications and improve the safety and efficacy of extracorporeal membrane oxygenation (ECMO) in patients with severe cardiac and respiratory failure: The RECOMMEND Platform Trial	2023	\$2,985,992.73		Program Grant

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Horvath	The Prince Charles Hospital Foundation	Host-Pathogen Relationships and Improved Diagnosis in Infective Endocarditis	2019-current	\$102,020.49	\$11,540.25	Program Grant
Morawska, Bell et al.	ARC Linkage Grant	Making Australia resilient to airborne infection transmission	2021-2023	\$868,513.00	\$350,000.00	Program Grant
Gregory, Pauls	The Prince Charles Hospital Foundation	Using engineering, biology and medicine to develop the next generation of mechanical circulatory support	2017-2023	\$600,000.00	\$23,986.88	Program Grant
Ainola	The Prince Charles Hospital Foundation	Does Pulsatile-Flow Venoarterial Extracorporeal Membrane Oxygenation Sustain Cardiac Function When Compared to Continuous-flow Venoarterial Extracorporeal Membrane Oxygenation?	2019-2023	\$9,742.50	\$9,742.50	Project Grant
Aitken, Morris	The Prince Charles Hospital Foundation	Measuring exertional dyspnoea in pulmonary arterial hypertension	2022-2024	\$9,871.00	\$9,871.00	Project Grant
Bayat	The Prince Charles Hospital Foundation	Urinary sodium guided pathway for expedited treatment of acute heart failure: A multicenter randomised controlled trial	2021-2023	\$6,000.00	\$6,000.00	Project Grant
Bell, Rogers, Thomson, Wainwright, Clements, Floto	National Health and Medical Research Council	The emerging problem of non-tuberculous mycobacteria infection: understanding aetiology, geospatial epidemiology and developing interventions	2016-2023	\$988,791.00	\$210,000.00	Project Grant
Bell, Wainwright, Reid, Sly et al	CF Foundation (USA)	NTM: understanding acquisition and transmission pathways	2020-2023	US\$1,230,000.00	\$455,869.64	Project Grant
Brown, Gullo, Gullo, Kendall, Turner, Mitchell	Metro South Health SERTA	Using qualitative case studies to understand the journey away from alcohol and substance use following acquired brain injury	2023-2025	\$24,624.00		Project Grant
Burrell, Hodgson, Stub, Higgins, Kasza, Nicol, Neto, McQuilten, Shekar, Marasco, Pellegrino, Dennis, Nair	Medical Research Future Fund	PRrecision Ecmo in Cardlogenic Shock Evaluation: PRECISE Study - Additional Funding Agreement	2023	\$353,000.00	\$353,000.00	Project Grant
Burrell, Hodgson, Stub, Higgins, Kasza, Nicol, Neto, McQuilten, Shekar, Marasco, Pellegrino, Dennis, Nair	Medical Research Future Fund	PRrecision Ecmo in Cardlogenic Shock Evaluation: PRECISE Study	2023	\$999,779.40	\$999,779.40	Project Grant
Burston, Fulbrook	ACU SoNMP Research Seeding Grant	The in-patient experience of hospitalisation with a severe pressure injury	2023	\$1,967.29	\$1,967.29	Project Grant
Burton, Donovan, Clough, Sheeran, Winter, Szollosi, Rolls, Khan	Griffith University	Improving sleep quality services and patient outcomes: Development of a questionnaire to assess influences of treatment acceptance and adherence, and guide clinical management	2023	\$9,920.00	\$9,920.00	Project Grant
Castellini	The Prince Charles Hospital Foundation	Core Beliefs and Coping in Cystic Fibrosis, and How These Relate to Health and Adherence	2023-2024	\$9,833.00	\$9,833.00	Project Grant
Challinor, Burston, Noyce	ACU Faculty Health Sciences Research Project Grant Scheme 2023	ARIIA grant prep: Collection of pilot data for industry grant application	2023	\$7,000.00	\$7,000.00	Project Grant

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Challinor, Noyce, Burston	Aged Care Research & Industry Innovation Australia (ARIA),	Brenna: Facilitating communication for nurses and families with digital technology	2023	\$159,922.00	\$159,922.00	Project Grant
Chambers, Apte, Tan	The Prince Charles Hospital Foundation	Silicosis- health monitoring Innovation to Eliminate Lung Dust Disease (SHIELDED Study)	2023	\$96,265.00		Project Grant
Chambers, Mackintosh	Medical Research Future Fund	Royal Prince Alfred Hospital – REBUILD	2023	\$1,999,997.08		Project Grant
Chambers, Mackintosh	Medical Research Future Fund	Genomic approaches for better outcomes in pulmonary fibrosis: addressing the knowledge gap	2023	\$2,946,131.68		Project Grant
Chambers, Zhang	CRE-PF	The Human Pulmonary Fibrosis Transcriptome at Single Cell Resolution	2023			Project Grant
Chan	The Prince Charles Hospital Foundation	Development of 'cardiac specific cell-free DNA quantitation in blood' as a highly sensitive biomarker to detect heart failure patients most at risk of re-hospitalisation.	2021-2023	\$49,594.20		Project Grant
Cobb	The Prince Charles Hospital Foundation	The impacts of self-initiated modifications of maintenance physiotherapy on clinical stability in people with cystic fibrosis commencing Elexacaftor – Tezacaftor- Ivacaftor	2023-2024	\$9,545.00	\$9,545.00	Project Grant
Coyer, Fulbrook, Ullman, Keogh, Duff, Long, Barakat-Johnson, August, Jones, Carter	National Health and Medical Research Council	Eliminating harm from devices across the life span in critical illness: The DEFENCE study	2023	\$1,494,988.00	\$1,494,988.00	Project Grant
Cracknell, Comben, Gunn	CAHRLI	Speech Pathology-led voice clinic	2024	\$6,988.00		Project Grant
Crocker, Nasser, Rolls, Winter	CAHRLI	Streamlining ADHD diagnostic and assessment pathways in paediatric psychology in MNHHS	2023	\$5,000.00	\$5,000.00	Project Grant
Curtin, Szollosi, Le Feuvre	Medical Research Future Fund	A multi-centre randomised controlled trial of polysomnographic titration of non-invasive ventilation in motor neurone disease	2022-2026	\$113,500.00		Project Grant
Davies, Gullo, Doig	Parkinson's Queensland	Exploring a cognitive-based treatment approach to improve self-efficacy, executive functioning and occupational performance for adults with neurological conditions	2021-2024	\$10,000.00	\$2,500.00	Project Grant
Death, Bell	CAHRLI	Nutrition Care for Older Adults with Delirium	2022-2023	\$5,000.00	\$5,000.00	Project Grant
Doig, Russell, Gullo, Fleming, Beadle, Burns, Muller, Patterson, Chatfield, Foster, Anemaat	Medical Research Future Fund	Co-creating virtual environments with consumers to enhance self-awareness and preparedness for home after brain injury	2024-2026	\$598,976.20		Project Grant
Evans, Smith, Burke, Roberts, Hernandez-Mitre	The Prince Charles Hospital Foundation	A population pharmacokinetic study of elexacaftor, tezacaftor, ivacaftor (Trikafta) in patients with Cystic Fibrosis with the development of therapeutic drug monitoring targets	2023-2025	\$97,506.15		Project Grant

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Fanning, Highton, Rapchuk, Finnegan	The Prince Charles Hospital Foundation	Individualised intraoperative haemodynamic optimisation informed by the lower limit of cerebral autoregulation to reduce perioperative morbidity and mortality: development of a novel clinical monitoring parameter	2018-2024	\$97,007.00	\$25,238.00	Project Grant
Fanning, Pinto, Rapchuk	The Prince Charles Hospital Foundation	Optimising intraoperative coagulation management for precision vascular surgery	2018-2024	\$87,604.00	\$10,434.00	Project Grant
Farah	The Prince Charles Hospital Foundation	A Comparative Assessment of the Distribution of Antibiotics in Pulsatile- and Continuous-Flow Venoarterial Extracorporeal Membrane Oxygenation: An Ovine Model of Severe Cardiogenic Shock	2023	\$9,730.00	\$9,730.00	Project Grant
Fior	The Prince Charles Hospital Foundation	BIOFluid-induced Lung injury: a novel pathogenic mechanism in acute respiratory Distress syndrome (the BIO-FLOOD study)	2022-2025	\$53,998.00		Project Grant
Fior	The Prince Charles Hospital Foundation	BIOFluid-induced Lung injury: a novel pathogenic mechanism in acute respiratory Distress syndrome (the BIO-FLOOD study)	2022-2025	\$69,984.00		Project Grant
Fior	The Prince Charles Hospital Foundation	Fluid balance, renin-angiotensin-aldosterone system (RAAS), and glycocalyx shedding in an ovine model of cardiogenic shock on pulsatile or continuous-flow venoarterial extracorporeal membrane oxygenation support (VA-ECMO)	2022-2023	\$9,991.00	\$9,991.00	Project Grant
Fong, Lwin	National Health and Medical Research Council	Early lung cancer biomarkers	2020-2023	\$754,893.20		Project Grant
Fong, Yang, Bowman, Marshall, Valery, Garvey, Toombs, Otty, O'Rourke	Cancer Council Queensland	Lung Cancer Screening in Queensland	2022-2026	\$2,000,000.00		Project Grant
Fong, Yang, Marshall, Tammemagi, Lam, Toombs, Manser, McWilliams	Medical Research Future Fund	Lung cancer screening for early detection	2021-2024	\$2,836,143.00		Project Grant
Francia	The Prince Charles Hospital Foundation	Incidence and prevalence of acute rheumatic fever and rheumatic heart disease in Queensland (2017-2021): A retrospective data linkage study	2023-2025	\$9,495.43	\$9,495.43	Project Grant
Fraser	The Prince Charles Hospital Foundation	A retrospective analysis of the effect of transfusion trigger and age of transfusion on patient outcomes in 250,000 Queensland inpatients receiving over 500,000 blood transfusions between 2007 - 2013	2015-2023	\$86,376.40	\$45,734.70	Project Grant
Fraser	Wesley	Understanding the impact of Spanish Flu on Adult and Children lungs, cell-by-cell	2023	\$75,000.00		Project Grant
Fraser	Donald and Joan Wilson Foundation	Heart ex vivo perfusion (HEVP) Donation	2023	\$40,000.00		Project Grant
Fraser	Queensland Health	Bionic Research and Development Program, Project ID: 71997	2017-2024	\$1,300,000.00		Project Grant

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Fraser, Heinsar	Xenios AG	An experimental ovine model of cardiogenic shock comparing the effect of pulsatile- to continuous-flow VA-ECMO (The Pulsatile Study)	2021-2023	\$403,337.00		Project Grant
Fraser, Suen, Boesch, Wu	Heart Foundation	Addressing deficiencies of current ECMO with an innovative pulsatile flow technology (ADEPT)	2023	\$149,022.00	\$149,022.00	Project Grant
Fraser, Tronstad	LINK Grant	ICU of the Future	2019-current	\$78,441.00		Project Grant
Fulbrook, Miles, Burston, Lovegrove	ACU Faculty Research Scheme	Incidence and characteristics of perioperative pressure injury in adult cardiac surgical patients	2023	\$6,987.28	\$6,987.28	Project Grant
Gandini	The Prince Charles Hospital Foundation	Can electrical impedance tomography be used to assess the lung distribution of inhaled antibiotics?	2021-2023	\$32,253.00		Project Grant
Ganesan, Jackson, Tung, Stoyanov, King, Sutton, Ranasinghe, Morton, Clark, Selva,Tiver, Karnon	Medical Research Future Fund	Remote monitoring of cardiac implantable electronic devices using an exception-based model of care	2023-2026	\$1,460,000.00		Project Grant
Georgeson, Wilson, Szollosi	The Prince Charles Hospital Foundation	Cognitive function and sleepiness in patients with OSA before and after 2 months of CPAP treatment	2023-2024	\$10,000.00		Project Grant
Giffin, McCully, Suen, Celik	Heart Foundation	Mitochondrial Transplantation as a supplementary therapy for heart transplantation: A Novel Strategy to Enhance Donor Heart Function	2023	\$149,288.00	\$149,288.00	Project Grant
Golledge, Sangla, Oliver, Kantro, Lazzarini, Burton	CRC for Developing Northern Australia	Tele-DFD: Remotely providing effective healthcare for diabetic foot disease	2022-26	\$840,000.00	\$168,000.00	Project Grant
Gullo, Gullo, Ponsford, Fleming, Wong, Ownsworth, Reid, Dawe, Russell, Brown, Mitchell, Lion, Piatkowski, Lemsky, Beaulieu-Bonneau, Doig, Turner, Kendall, Griffin, Bell, Gould, Schneider	Metro South Health SERTA	Co-designing and piloting a tailored program for managing alcohol use in acquired brain injury	2023-2025	\$122,193.00		Project Grant
Gurunathan	The Prince Charles Hospital Foundation	CARDIAC Surgery Preoperative Inspiratory muscle Training (Cardiac SPRINT): a feasibility study	2023	\$36,411.13	\$36,411.13	Project Grant
Haqqani	The Prince Charles Hospital Foundation	Embedding Genetic Counselling in Cardiology	2023-2024	\$250,000.00	\$50,000.00	Project Grant
Haqqani	Perpetual Impact Philanthropy	Assessing the Heart after TAVI (EP TAVI Project)	2023	\$45,000.00	\$45,000.00	Project Grant
Haymet	Wesley	Early vasopressor treatment of septic shock (Evap-Shock study)	2021-current	\$15,000.00		Project Grant
Haymet, Suen	The Prince Charles Hospital Foundation	Ex-Vivo Protection of Endothelium For Autologous GRAFTS (EX-VIPER) study	2021-2023	\$39,469.00		Project Grant
Heinsar	The Prince Charles Hospital Foundation	Facilitating endothelial cell growth and proliferation at the interface between heart wall and VAD inflow cannula	2018-2023	\$9,993.00		Project Grant

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Herd, Matson	The Prince Charles Hospital Foundation	Nutritional parameters pre and post use of elexacaftor, tezacaftor and ivacaftor in adults with cystic fibrosis in Queensland, Australia	2021-current	\$10,000.00		Project Grant
Hetherington, Bauer, Jordan	Emergency Medicine Foundation	Paeds with a wheeze	2023-2024	\$70,904.00		Project Grant
Horvat, Reid, Brown, Simpson, Essilfie	National Health and Medical Research Council	Manipulating iron metabolism for the treatment of severe asthma and COPD	2024-2027	\$1,300,000.00		Project Grant
Ijuin	The Prince Charles Hospital Foundation	Hydrogen Extracorporeal CardioPulmonary Resuscitation for improving neurological outcomes - HYDRO E CPR	2022-2025	\$49,680.00		Project Grant
King, Oystein, Morris	The Prince Charles Hospital Foundation	Is digital pre-operative education an acceptable replacement for face-to-face physiotherapy pre-operative education in Thoracic surgical patients?	2022-2023	\$9,856.00	\$9,871.00	Project Grant
Larissa, Reid	Australian Infectious Disease centre; UQ/QIMR-B seed funding.	Similarities between Influenza infection and Cystic Fibrosis on macrophage and epithelial control of P.aeruginosa infection	2023	\$50,000.00	\$50,000.00	Project Grant
Li Bassi, Fior, Obonyo, Heinsar, Liu, Sato, Gandini, Ro, Ijuin, Farah, Ainola, Sato, London, Schneider, McGiffin, Abbate, Zhang, Portatadino, Milani, Lloyd, Nonaka, Hoshino, Redmond, Garlick, Bouquet, Wilson, Passmore, Hyslop, See Hoe, Skeggs, Panduru	Metro South HHS	Biofluid-induced lung injury: Appraising a novel pathogenic mechanism in acute respiratory distress syndrome	2023	\$24,990.00	\$24,990.00	Project Grant
Lightbody-Gee, Jenkinson	The Prince Charles Hospital Foundation	A High-Performance Blood Shear Rig for Rotary Blood Pump Development	2021-current	\$9,468.00	\$495.00	Project Grant
Liu	Japan Society for Promotion of Science	A novel and Innovative Therapeutic Strategy for Severe Acute Respiratory Distress Syndrome during Extracorporeal Membrane Oxygenation support	2022-2024	\$59,274.00		Project Grant
Loel, Herd, Matson	The Prince Charles Hospital Foundation	Exploring PEG feeding cessation & removal in adults with CF	2023-2024	\$10,000.00	\$10,000.00	Project Grant
Lu	The Prince Charles Hospital Foundation	Pulmonary endothelial and immunological profiles in an ovine model of live bacterial sepsis	2022-2023	\$9,992.20	\$9,992.20	Project Grant
Lutzky, Apte, Divithotawela, Groves, Katharina	The Prince Charles Hospital Foundation	Oxidised cholesterol as key mediators of fibrotic lung disease	2023-2025	\$98,500.00		Project Grant
Mackay	The Prince Charles Hospital Foundation	Malnutrition - Call it what it is or something else?	2023	\$9,991.30	\$9,991.30	Project Grant
Mackay, Bell	CAHRLI	Patient perceptions and understanding of the term 'malnutrition'	2022-2023	\$5,000.00	\$5,000.00	Project Grant
Marshall	The Prince Charles Hospital Foundation	Extracellular vesicle -microRNAs for lung cancer screening	2023-2024	\$10,000.00	\$10,000.00	Project Grant
McGiffin, See Hoe, Li Bassi, Suen, Macdonald	National Health and Medical Research Council	Hypothermic machine perfusion of circulatory death hearts for transplantation	2022-current	\$2,062,431.00		Project Grant

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
McKenna, Corray, O’Gorman, Perrin, MacDonald, Skinner, Lazzarini, Golledge, Varnfield	TRI - CSIRO Australian e-Health Research Centre Grant Scheme	Feasibility of a Smart Footprint System for Diabetes-Related Foot Care	2023-2026	\$100,000.00	\$16,667.00	Project Grant
McNamee, Simmonds, An, Zhang, Semenzin, Pauls, Nguyen	Griffith University	Heart Valve Cavitation Project	2022-2023	\$35,600.00	\$17 600.00	Project Grant
Milani	The Prince Charles Hospital Foundation	Assessment of kidney damage in a model of cardiogenic shock treated with pulsatile VA-ECMO: does improved microcirculation protect from renal injury?	2023-2025	\$9,820.25	\$9,820.25	Project Grant
Morris, Pyne, Sabapathy, Stewart, Hwang, Clark	Griffith University	Hot Legs for Heart Failure: Using lower limb heating to improve health outcomes	2023-2024	\$30,000.00	\$30,000.00	Project Grant
Morris, Sabapathy, Scalia, Walsh, Balmain, Chan, Benjamin, Roberts	The Prince Charles Hospital Foundation	Hot Legs For Heart Failure: Using lower limb heating to improve exercise tolerance in heart failure	2021-2023	\$63,905.00	\$19,000.00	Project Grant
Morris, Sabapathy, Stewart, Roberts	Griffith University	High and Hot: Using Environmental Extremes to Improve Oxygen Transport in Heart Failure	2022-2023	\$29,495.00	\$24,000.00	Project Grant
Morris, Walsh, Bellet, Louis, Sabapathy	The Prince Charles Hospital Foundation	Small muscle training for big gains: Using high intensity single muscle group training in heart failure	2018-2023	\$48,318.00	\$21,000.00	Project Grant
Nadeem	The Prince Charles Hospital Foundation	Genetic pathways underlying sepsis tolerance in an ovine model of bacterial sepsis	2023-2025	\$8,950.65	\$8,950.65	Project Grant
Nolan	The Prince Charles Hospital Foundation	Forced Oscillometry Technique to provide early detection and improved management of pulmonary exacerbations in adults with cystic fibrosis	2023-2024	\$10,000.00	\$10,000.00	Project Grant
Nonaka	The Prince Charles Hospital Foundation	A Novel Right Ventricular Assessment using Speckle-Tracking Echocardiography in Swine	2022-2025	\$48,359.00		Project Grant
O’Sullivan	MNHHS SWIFT Grant	Trametinib Triumph: Breaking Fibrosis Barriers	2023			Project Grant
Obonyo	The Prince Charles Hospital Foundation	Microvascular endotheliopathy: A final common pathway in critical illness?	2021-2023	\$64,720.00	\$15,005.00	Project Grant
O’Brien	AH-TRIP	TPCH Rehabilitation and Acute Stroke (RAS) Unit Person Centred Goal Setting	2022-2023	\$7,000.00	\$7,000.00	Project Grant
Parker, Steele, Jordan	The Prince Charles Hospital Foundation	Predicting mental health related emergency department re-presentations and subsequent hospitalisation: Logistic regression modelling of re-presentation within 48 hours, 7-days, and 28-days	2023-2025	\$89,096.78		Project Grant
Passmore	The Prince Charles Hospital Foundation	Rogue mitochondrial DNA: The elusive mediator of inflammatory complications in cardiac surgery	2021-2024	\$43,918.00	\$14,164.00	Project Grant
Pearse, Naidoo, Ziegenfuss, Smith, Vincent, O’Brien	National Health and Medical Research Council	The Cryopreserved vs. Liquid Platelets trial: CLIP-II A phase III multicentre blinded randomised controlled clinical non-inferiority trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of surgical bleeding	2023	\$1,825,647.60		Project Grant

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Pearse, Rushbrook, Gardner, Perel, Fung	National Blood Authority	Implementation of a Standard 7 - Blood Management Dashboard for Metro North, Hospital and Health Service	2023-2025	\$155,000.00		Project Grant
Pham	MNHHS SWIFT Grant	New Pathways to treat Intractable Infections	2023			Project Grant
Pham	CF Australia	New pathways to treat intractable lung infection in lung transplant recipients with CF	2023	\$48,074.00	\$48,074.00	Project Grant
Phillips, Wong, Burston, Owens	ACU Teaching Development Grant	Fostering and building positive workplace coping strategies: Bringing professionals' experiences to teaching and nursing students	2023	\$13,000.00	\$13,000.00	Project Grant
Rachakonda	The Prince Charles Hospital Foundation	Investigating A Novel Approach to Reduce Oxidative Stress and Activation of Coagulation during Extracorporeal Membrane Oxygenation Use	2022-2023	\$9,908.84	\$9,908.84	Project Grant
Ranasinghe, Ngo, Peng	National Heart Foundation of Australia	Outcomes of cardiovascular care in regional and remote Australian communities: Actionable data to drive policy and advocacy to reduce inequality	2024-2025	\$150,000.00		Project Grant
Ranasinghe, Woodman, Kaambwa, Kotwal, Aliprandi-Costa	National Health and Medical Research Council	Safety, effectiveness of care and resource use among Australian hospitals (Safer Hospitals).	2021-2024	\$1,108,000.00		Project Grant
Reid, ACFC team	The Prince Charles Hospital Foundation & TPCH Cystic Fibrosis Research Group	Analysis of genetic, immune and infective processes underpinning clinical phenotypes, disease progression and response to CFTR modulators in cystic fibrosis	2023	\$131,000.00	\$131,000.00	Project Grant
Reid, Miles, Yang, Firth, Burke, Chauray, Le Feuvre, Brown, Forrester, Waddell	The Prince Charles Hospital Foundation	Prognostics, Diagnostics and Therapeutic targets in response to infectious threats to the Australian population; (Phase 1) COVID-19	2020-2024	\$100,000.00	\$70,000.00	Project Grant
Reid, Smith, Bell	The Prince Charles Hospital Foundation	A Multi-modality, multi-disciplinary program of research to improve disease outcomes in Cystic Fibrosis	2018-2023	\$600,000.00	\$200,000.00	Project Grant
"Rogers, Crotty, Morawska, Bell, Qiao, Woodman, Whitehead, Papanicolas, Inacio, Miller"	Medical Research Future Fund	Prevention of SARS-CoV-R transmission in aged care: effective evidence-based measures for rapid translation	2021-2023	\$1,330,000.00	\$550,000.00	Project Grant
Rutherford, Binnewies, Bach, Tjondronegoro, Morris, Moyle, Torrisi, Nghiem, Phung, Zhang, MacQuarrie, Gabric	Wellcome Trust	Individualised Heat-Health Early Warning Systems: a novel digital solution	2022-2025	\$2,351,841.00	\$600,000.00	Project Grant
Sato	Old Heart Institute	TAVI Project	2022-current	\$22,999.44		Project Grant
Segal, Szollosi, Winter	The Prince Charles Hospital Foundation	A pre-post trial evaluating the impact of co-designed educational materials on health literacy and Continuous Positive Airway Pressure (CPAP) compliance in patients with Obstructive Sleep Apnoea (OSA)	2023-2024	\$10,000.00	\$10,000.00	Project Grant
Sela	The Prince Charles Hospital Foundation	Cardiorenal syndrome and endothelial dysfunction in sepsis	2022-2023	\$9,831.77	\$9,831.77	Project Grant

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Shrestha, Shrestha, Joshi, Smith, Naidoo, Hopkins, Kennedy, Sedgewick, Hamilton-Craig	The Prince Charles Hospital Foundation	Rheumatic Fever and Rheumatic Heart Disease; Quantum of Public Awareness as a Tool for Primary Prevention of the disease: A Pilot Study	2023-2024	\$10,000.00	\$5,000.00	Project Grant
Sigcha	The Prince Charles Hospital Foundation	Plasma and Serum microRNAs for lung cancer screening	2023-2024	\$9,978.00	\$9,978.00	Project Grant
Sing	The Prince Charles Hospital Foundation	Novel Intraventricular Controller (NICE): Towards the Development of an ECG and Pressure Triggered Intra-Ventricular Balloon Pump	2020-2023	\$9,731.00	\$9,731.00	Project Grant
Siriwardena	The Prince Charles Hospital Foundation	The effects of human B- Type natriuretic peptide signal peptide (BNPsp) in human atrial tissue in an in vitro model of ischaemia reperfusion injury (IRI)	2022-2024	\$44,273.00		Project Grant
Sly, Wainwright, Bell, Reid et al	CF Foundation (USA)	Early life origins of CF lung disease	2019-2024	US\$1,650,000.00	\$835,757.71	Project Grant
Smith	The Prince Charles Hospital Foundation	EMBRACE: Exploring the relationship between EMotional well-Being with health outcomes and patient pReferences for resources and support in cArdiaC surgEry	2020-2023	\$10,000.00		Project Grant
Stewart, Edwards, Chan, Morris, Scalia	Metro North Collaborative Grant	Quantifying novel measures of speckle-tracking derived myocardial work during exercise stress echocardiography testing to aid differential diagnosis in complex cardiomyopathies	2021-2023	\$49,688.00	\$35,000.00	Project Grant
Stonestreet	OCAHO	Virtual Transformation: Enhancing opportunities for delegation through virtual training	2023-2024	\$6,965.00		Project Grant
Sullivan, Winter, Patounas, Curtin, Rolls	Metro North HHS	ExpEDiTe Sleep - Extending psychology scope of practice for Pharmacotherapies Emphasising Deprescribing during behavioural Treatment of Sleep: Developing an Australian-first model of care to reduce the use of sedatives for insomnia	2023-2024	\$25,000.00		Project Grant
Szollosi, Eeles, Curtin, Fripp, Coulson	The Prince Charles Hospital Foundation	Obstructive Sleep Apnoea in Mild Cognitive Impairment: an opportunity to preserve brain health	2018-2024	\$79,300.00	\$2,400.00	Project Grant
Tan, Low, Aplin, Gullo, McAuliffe	Digital for Life Fund - Singapore Government	Co-designing Smartphones and Apps Training and Resource toolkit for People with vision impairment (PVI)	2021-2023	\$174,840.00	\$68,405.00	Project Grant
Taylor, Bell, Rogers	CF Australia Dorothy Nell Marzol Innovation Grant	Australian-wide surveillance for fungal infection: a national metagenomic analysis across 19 CF centres	2022-2024	\$80,000.00	\$40,000.00	Project Grant
Terrill, Woodruff, Lazzarini	Urgo Foundation Asia-Pacific Diabetic Foot Disease Grants	Patient specific 3D printing of metamaterials to improve personalised offloading and healing of diabetes-related foot ulceration	2021-2023	\$15,000.00	\$5,000.00	Project Grant
Thomson, Ahmed, Guo, Bell, Burke, Jackson	HeIDI/CSIRO (AMR Mission)	Eliminating opportunistic pathogens from premise plumbing biofilms in healthcare facilities	2022-2024	\$150,000.00	\$110,000.00	Project Grant
Tornatore, Gullo, Fleming, Laracy	RBWH Foundation	Improving outcomes for people requiring upper limb neurorehabilitation using a new technology approach in hospital	2023-2024	\$48,137.00		Project Grant

Active Grants 2023 continued...

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Tronstad	The Prince Charles Hospital Foundation	eDIS-ICU - an international validation study to improve accuracy of screening for delirium in the ICU	2021-2023	\$35,312.17		Project Grant
Tronstad	The Prince Charles Hospital Foundation	Can sleep and circadian physiological disruptions caused by the intensive care unit environment be prevented by environmental and lighting modifications?	2022-2025	\$62,018.70	\$24,000.00	Project Grant
Ven, Fulbrook	The Prince Charles Hospital Foundation	Pressure injury risk assessment for palliative care patients in the acute hospital setting	2023	\$96,576.00	\$32,192.00	Project Grant
Wainwright, Bell, Reid, Sly et al	CF Foundation (USA)	FORMAT adaptive study of Mycobacterium abscessus in lung disease	2020-2024	US\$4,000,000.00	\$1,519,559.48	Project Grant
Wells, Goldberg, Smith, Apte	CF Foundation (USA)	Impact and treatment of cloaking antibodies in CF	2021-2023	US\$430,000.00	\$197,542.73	Project Grant
Wells, Ledger, Smith	Conquer Cystic Fibrosis	Understanding and counteracting antibody-mediated inflammation driving lung damage	2023-2024	\$49,812.82	\$25,000.00	Project Grant
Wildi	Wesley	Molecular patterns for the discovery of biomarkers in Acute Respiratory Distress Syndrome (ARDS) for the rapid identification of subphenotypes (the MARK-ARDS study)	2020-2023	\$98,581.00		Project Grant
Wilson	Metro North - UQ	High resolution measurement of sleep position during pregnancy and the impact on infant birthweight	2023-2024	\$47,268.40	\$12,388.61	Project Grant
Winter, Rolls, Haratsis, Curtin, Rautenberg	OCAHO	Direct to Psychology Insomnia and Stepped Care Models: Service Innovations in the Sleep Disorders Service	2023-2025	\$68,206.00		Project Grant
Winter, Rolls, Haratsis, Curtin, Rautenberg	CAHRLI	Sleep Psychology Innovations in the Sleep Disorders Service	2022-2023	\$7,000.00		Project Grant
Woodruff, Lazzarini, Gollidge, Powell, Holmes, Terrill, Pickering, Evans	Medical Research Future Fund	3D digital solutions for diabetes related foot ulcer offloading treatment	2023-2026	\$810,102.00	\$135,017.00	Project Grant
Wu, Heinsar, Semenzin, Fraser, Suen, Li Bassi	The Prince Charles Hospital Foundation	Decompressing the Stressed Heart - An Innovative Unloading Device for Extracorporeal Membrane Oxygenation Support	2022-current	\$74,620.00		Project Grant
Yang, Varnfield, Li, Khair, Francis, McDonald, Dabscheck	The Prince Charles Hospital Foundation	Transforming the care of people living with chronic obstructive pulmonary disease (COPD) using digital health: an implementation feasibility study	2023-2024	\$99,940.00		Project Grant
Jones, Wadhwa, Jordan, McLaughlin, Gullo	The Prince Charles Hospital Foundation	Exploring the role of child life therapy in emergency: Children's emotional coping, healthcare experience and economic impact	2023-2024	\$10,000.00	\$10,000.00	Project grant
Stonestreet, Bell	OCAHO	Investigating best practice dietetic services in Mental Health Alcohol and Other Drugs Services across Queensland	2022-2023	\$42,360.00	\$42,360.00	Project grant
Ledger	University of Queensland	The impact of helpful and harmful immune responses in the cystic fibrosis lung	2020-2023	\$90,000.00	\$30,000.00	Scholarship
Lazzarini, Evans	QUT Postgraduate Research Award (QUTPRA)	Prevention of diabetes foot disease using technology-led solutions in regional and remote regions	2023-2026	\$105,000.00	\$17,500.00	Scholarship

Chief Investigators	Granting Agency	Project Title	Years of Funding	Total Funding Awarded	Funding received for 2023	Grant Type
Lazzarini, Weerasuriya, Cramb	QUT Postgraduate Research Award (QUTPRA)	Predicting foot-related hospitalisation and cost-of-care outcomes: A retrospective data- linkage cohort study	2023-2026	\$105,000.00	\$17,500.00	Scholarship
Bild	CAHRLI	Co-design of a Cognitive Behaviour Therapy intervention for Central Disorders of Hypersomnolence	2023	\$10,000.00	\$10,000.00	Scholarship
Mattison	Digital Health Cooperative Research Centre	Integrating Wearable Devices into the Patient-Centred Digital Healthcare Environment	2021-2024	\$135,000.00	\$45,000.00	Scholarship
Sing	Griffith University	Pump Design and Development for Intra-Ventricular Balloon Pump	2020-2023	\$100,372.00	\$9,731.00	Scholarship
Spratt	The Prince Charles Hospital Foundation	Arrhythmias in human heart failure	2021-2023	\$56,184.00	\$28,092.00	Scholarship



Higher Degree Students Supervised During 2023

Full Name	Postgraduate Course	Research Project Title	University affiliation	Supervisors
Adam Lee	PhD	Mechanisms of Ventricular Arrhythmias and Ectopy Mediated Cardiomyopathy	The University of Queensland	Gestenfeld, Haqqani
Adele van den Hoek	PhD	Mobile health for secondary prevention of Diabetes-related foot ulceration	Queensland University of Technology	Lazzarini, Ploderer, Evans
Alana Campbell	PhD	Mapping the Natural Recovery of Cognition in Acute Stroke Using Serial Computerised Cognitive Assessment	The University of Queensland	Gustaffson, Gullo, Grimley, Summers
Alex Terrill	PhD	Application of advanced design and manufacture techniques in the mechanical offloading of tissue stress for management of diabetic foot ulceration	Queensland University of Technology	Woodruff, Lazzarini, Powell, Holmes
Alexandra Dashwood	PhD	Understanding how phosphorylation and redox modifications regulate cardiac ryanodine receptor-type 2 activity to produce an arrhythmogenic phenotype in advanced heart failure	The University of Queensland	Molenaar, Haqqani
Alita Rusthon	PhD	Post-discharge home meal provision for hip fracture patients	Griffith University	Roberts, Bell, Morris
Amber Jones	PhD	Development and evaluation of telehealth service models for the delivery of multidisciplinary burn care	The University of Queensland	Burns, Ward
Andrew Haymet	PhD	The Biology of Vascular Injury Associated with Mechanical Circulatory Support Devices	The University of Queensland	Fraser
Andrew Burke	PhD	Pharmacokinetics of Antimycobacterial Drugs in Patients with Cystic Fibrosis and Latent Tuberculosis	The University of Queensland	Roberts, Thomson, Smith, Bell
Ann Finnimore	PhD	PD Check-In: Supporting people with Parkinson's Disease in self-managed maintenance of communication following intensive treatment	The University of Queensland	Thodoros, Rumback
Bailey Schneider	Medical student	Long-term ECMO Surface Characterisation in an Ex Vivo Model	The University of Queensland	Fraser, Suen
Bianca Monsoon	MPhil	Simultaneous use of two beta-blockers, Carvedilol and Bisoprolol, for effective and safe treatment of heart failure	Queensland University of Technology	Molenaar
Blake Hudson	Hons	Numerical and Experimental Study of Induced Cavitation within a Commercialised Bi-Leaflet Heart Valve	Griffith University	Semenzin
Carla Dos Reis	MPhil	Return to work following moderate to severe TBI: Barriers, facilitators, outcomes and opportunities 2 years post injury in South East Queensland	The University of Queensland	Gullo, Patterson
Chanika Alahakoon	PhD	Secondary prevention of diabetic foot disease	James Cook University	Golledge, Moxon, Fernando, Lazzarini
Chantal Karup	PhD	Exploring the skill utilisation of Internationally Qualified Nurses (IQN's) who transition to clinical practice in Australia	Australian Catholic University	Jacob, Burston, Betihavas
Claire Lynch	PhD	Electrophysiologic Effects of TAVI	The University of Queensland	Walters, Haqqani
Dhayananth Kanagarajan	PhD	CFD Study of Mixing Zones in Extra Corporeal Membrane Oxygenation Circuits to Prevent Brain Injury	Griffith University	Tansley, Pauls, Dau, Fraser

Higher Degree Students Supervised During 2023 continued...

Full Name	Postgraduate Course	Research Project Title	University affiliation	Supervisors
Donna Hickling	PhD	Does nutrition impact lung transplant outcomes?	The University of Queensland	Walsh, Chambers, Bauer
Dr Usha Gurunathan	PhD	Investigation of the perioperative thrombotic and haemostatic risk after orthopaedic surgery with an emphasis on obesity	The University of Queensland	Mullany
Edwina Duhig	MPhil	Interstitial microenvironment in pulmonary disease including non-small cell lung carcinoma	The University of Queensland	Yang, Fong
Eliza Humphrey	Hons	Clinicians' and patients' experiences and preferences for the prevention and management of hospital-acquired wounds in acute care: a mixed-methods systematic review	Australian Catholic University	Burston, Wan
Eloise Shaw	PhD	Screening for Biomarkers in Non -small Cell Lung Cancer	The University of Queensland	Fong, Bowman, Yang
Emily Brotherton	PhD	Neurological mechanisms underlying exercise-induced heat stress in Multiple Sclerosis	Griffith University	Kavnagh, Sabapathy, Morris
Emma Ledger	PhD	Helpful and harmful immune responses in the cystic fibrosis lung	The University of Queensland	Well, Smith, Reid
Gabriele Fior	PhD	Development of a novel pulmonary imaging technology for mechanically ventilated patients	The University of Queensland	Fraser
George Tay	PhD	Reducing infection transmission risk in people with cystic fibrosis	The University of Queensland	Bell, Thomson, Reid
Gerard Olive	PhD	Interventional Bronchoscopy	The University of Queensland	Fong, Marshall, Yang
Giovanna Tornatore	PhD	Rehabilitation intensity for patients with upper limb impairment - what is the impact on occupational performance	The University of Queensland	Gullo, Fleming
Graeme Mattison	PhD	Integrating Wearable Devices into the Patient-Centred Digital Healthcare Environment	The University of Queensland	Dobbins, Smith, Reid, Forrester
Hannah Jepson	MRes	New Zealand podiatrist's alignment with current international best practice guidelines for the diabetic foot: The New Zealand Diabetic Foot assessment and management survey	Auckland University of Technology	Carroll, Garrett, Lazzarini
Helen Wallace	PhD	How can we help people with aphasia return to driving following stroke?	The University of Queensland	Wallace, Gullo, Copland
Hideaki Nonaka	PhD	Exploration of Novel Echocardiographic Assessment of Right Heart Function using Animal Heart Failure Model	The University of Queensland	Fraser, Chan, Suen
Hollie Bendotti	PhD	Artificial Intelligence for smoking Cessation : Development and Effectiveness of Quinn, a Smoking Cessation Smartphone Chatbot	The University of Queensland	Marshall, Gartner, Ireland, Lawler
Hwei Lan Tan	PhD	Using experience-based co-design to explore smartphone and app use by people with vision impairment and develop a web-based training and learning support resource toolkit	The University of Queensland	Aplin, Gullo, McAuliffe
Iain Smith	PhD	Relationship between post-exercise oxygen kinetics and outcomes in chronic cardiorespiratory disease	Griffith University	Morris, Dent, Sabapathy
Isabella Wiesmantel	Hons	Intensive care nurses' perceptions of simulation for continuing professional development: A systematic review	Australian Catholic University	Burston, Zhang
Jake McMahon	PhD	De-implementation of low-value pressure injury prevention and management	Australian Catholic University	McInnes, Fullbrook, Lam

Full Name	Postgraduate Course	Research Project Title	University affiliation	Supervisors
Jazmin Mireya Guayco Sigcha	PhD	Blood Biomarkers in Lung Cancer Screening	The University of Queensland	Marshall, Fong, Yang, Chee
Jessica King	MPhil	Preoperative physiotherapy education for patients undergoing thoracic surgery	Griffith University	Tronstad, Morris, Baque
Julie Nguyen	PhD	Implementation Evaluation of High Risk Foot Services in relation to Access, Intake and Patient Journey in Two Settings	University of Melbourne	McKenzie, Lazzarini, Ho
Kathleen Hall	PhD	Evaluation of the inclusion of an allied health assistant within an Adult Cystic Fibrosis Centre: their role, scope of practice, and impact on physiotherapy services	Australian Catholic University	Kuys, Maxwell, Roll, Cobb
Kei Sato	PhD	Speckle-Tracking Echocardiography in intensive care	The University of Queensland	Fraser, Chan, Suen
Kirsten Dous	MRes	Physiotherapy Management for People with Parkinson's Disease (PD) Post Fractured Hip Surgery	Griffith University	Morris, Kuys, Walsh
Lavienraj Premraj	Medical student	Neurological Outcomes of COVID-19	Griffith University	Fraser, Suen, Cho
Linh Ngo	PhD	Population-wide outcomes of catheter ablation of atrial fibrillation	The University of Queensland	Ranasinghe, Yang
Lisa Jurak	PhD	Using Proteomics to understand the mechanisms of asthma exacerbations and how macrolides can reduce exacerbations	The University of Queensland	Upham, Yang, Simpson, Hill
Luke Churchill	PhD	Can lung ultrasound predict post-operative pulmonary complications in the adult cardiac surgery population, alter physiotherapy practice and improve patient outcomes?	The University of Queensland	Mandrusiak, Thomas, Tronstad
Marissa Daniels	PhD	Precision medicine in the genomic era: emerging technologies for molecular profiling	The University of Queensland	Fong
Martin Hajek	PhD	Exploring the relationship between trunk extensor morphology and activation with lower back pain and lower limb injury in sport	Griffith University	Duhig, Roberts, Bourne, Morris
Maryam Khorramshahi Bayat	PhD	Evaluating the role of urinary sodium in the management of heart failure	The University of Queensland	Ranasinghe, Chan
Maureen Peasey	MPhil	Pulmonary Rehabilitation and Physical Activity in COPD	Griffith University	Morris, Walsh
Maxine Deeb	MPhil	Phenytoin inhibition of ryanodine channels (RyR2)	Queensland University of Technology	Walweel
Melanie Spratt	PhD	Ventricular Arrhythmogenesis in the Failing Heart	Queensland University of Technology	Molenaar, Haqqani, Battle
Menaka Louis	PhD	High intensity single muscle group training in heart failure	Griffith University	Morris, Hwang, Roberts, Sabapathy
Michelle Garrett	PhD	Identifying early warnings and system changes that may reduce the burden of diabetes related foot complications in Aotearoa/ New Zealand	Auckland University of Technology	Kenealy, Lazzarini
Nikita Patel	MPhil	Osteoporosis diagnosis and fracture prediction using CT vertebral attenuation in lung cancer screening	The University of Queensland	Marshall, Fong, Yang, O'Rourke, Dahler
Nimantha Durage	PhD	Investigating cognitive functioning in people with diabetes-related foot ulcers in Queensland, Australia: A prospective longitudinal study	Queensland University of Technology	Finlayson, Parker, Lazzarini

Higher Degree Students Supervised During 2023 continued...

Full Name	Postgraduate Course	Research Project Title	University affiliation	Supervisors
Oystein Tronstad	PhD	ICU of the Future	The University of Queensland	Fraser
Rachel McCall	PhD	Child Protection In the Adult Emergency Department	The University of Queensland	Healy, Jordan
Rebecca Chambers	PhD	Exercise training modes in Pre-Lung Transplant Patients	Griffith University	Walsh, Morris
Samantha Ness	PhD	Contemporary Management of Malnutrition in patients with Chronic Obstructive Pulmonary Disease (COPD)	The University of Queensland	Bell, Collins, Masel
Samantha Ness	PhD	Understanding and improving the management of malnutrition in Chronic Obstructive Pulmonary Disease	The University of Queensland	Bell, Collins, Masel
Samuel Huth	Medical student	Novel Imaging Biomarkers for Defending Cerebral Perfusion during Non-Cardiac Surgery	The University of Queensland	Fraser, Suen
Saniya Rodrigues	PhD	The effect of heat stress on older persons with and without heart failure	Griffith University	Morris, Bach, Sabapathy
Sarah Davies	PhD	Exploring a cognitive-based treatment approach to improve self-efficacy, executive functioning and occupational performance for adults with neurological conditions	The University of Queensland	Gullo, Doig
Sarah Mackay	MPhil	Exploring Perspectives on Malnutrition Terminology	The University of Queensland	Young, Bell
Sarah Pham	Hons	Potential therapeutic target for Ischemic Reperfusion Injury	The University of Queensland	Chan
Saroeun Ven	PhD	Development of a pressure injury risk assessment tool for palliative care patients in the acute hospital setting	Australian Catholic University	Fulbrook, Burston, Steele, Lovegrove, Miles, Prince
Shannon Scarff	MPhil	Ecological assessment of cognition by the occupational therapist: The Multiple Errands Test in the Australian context	The University of Queensland	Fleming, Gullo, Nalder
Silver Heinsar	PhD	An experimental ovine model of cardiogenic shock comparing the effect of pulsatile- to continuous-flow VA-ECMO (A comprehensive Pre-clinical evaluation of Pulsatile-flow VA-ECMO)	The University of Queensland	Fraser, Suen
Sophie Deeth	PhD	Nutrition Care in Older Hospital Inpatients	The University of Queensland	Bell, Mudge
Sucharitha Rangi Weerasuriya	PhD	Predicting foot-related hospitalisation and cost-of-care outcomes: A retrospective data linkage cohort study	Queensland University of Technology	Lazzarini, Cramb, Zhang
Susan Smith	PhD	A Collaborative, Stepped, Blended, Patient-Centred Model of Care for the Mental Health needs of Cardiac Surgery patients: Evidence, Development and Feasibility	Queensland University of Technology	Strodl, Varnfield, Rolls, Kavanagh
Tanya Palmer	PhD	The validity of a test to measure exertional breathlessness in chronic disease	Griffith University	Morris, Walsh, Obst, Sabapathy
Taylor Sing	PhD	Physiological Suitability of an Intra-Ventricular Balloon Pump	Griffith University	"Tansley Dr Jo Pauls Associate: A/Prof Michael Simmonds"
Tenber Grotta	PhD	The use of nurse-surgeons in the Australian public health system: a mixed-methods study	Australian Catholic University	Jacob, Burston, Betihavas
Thomas Georgeson	PhD	Detecting risk of dementia in people with sleep apnoea	The University of Queensland	Coulson, Terril, Szollosi

Full Name	Postgraduate Course	Research Project Title	University affiliation	Supervisors
Trang Dang	PhD	Health Care Costs Associated with Avoidable Hospitalisations	The University of Queensland	Ranasinghe, Chan, Gannon
Tyler Gilstrom	PhD	Identification of viral versus bacterial triggers in immune cells from AECOPD patients	James Cook University	Warner, Reid
Viacheslav Bolotnikov	Observership	Controller development for pneumatic pulsatile actuation	Swiss Federal Institute of Technology Lausanne	Semenzin
Xiang-Wen Lee	MPhil	Novel Developments in AF Ablation	The University of Queensland	Haqqani
Zoe McSweeney	Hons	The Design of an Impella Pump Controller	The University of Queensland	Semenzin



Publications

- Ababneh, A., Edwards, H., Lazzarini, P., & Finlayson, K.** (2023). A qualitative exploration of adherence to wearing removable cast walkers in patients with diabetic foot ulcers. *Journal of Wound Care*, 32(7), 456–466. <https://doi.org/10.12968/jowc.2023.32.7456>
- Ababneh, A., Finlayson, K., Edwards, H., Armstrong, D., Najafi, B., van Netten, J., & Lazzarini, P.** (2023). The Validity and Reliability of Self-Reported Adherence to Using Offloading Treatment in People with Diabetes-Related Foot Ulcers. *Sensors*, 23(9), 4423. <https://doi.org/10.3390/s23094423>
- Ababneh, A., Finlayson, K., Edwards, H., van Netten, J., & Lazzarini, P.** (2023). Differences in adherence to using removable cast walker treatment during daytime and nighttime weight-bearing activities in people with diabetes-related foot ulcers. *Therapeutic Advances in Endocrinology and Metabolism*, 14, 204201882211424. <https://doi.org/10.1177/20420188221142457>
- Adsett, J., Bowe, R., Kelly, R., Louis, M., Morris, N., & Hwang, R.** (2023). A Study of the Reliability, Validity, and Physiological Changes of Sit-to-Stand Tests in People With Heart Failure. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 43(3), 214–219. <https://doi.org/10.1097/HCR.0000000000000739>
- Aitken, C., Stewart, G., Walsh, J., Palmer, T., Adams, L., Sabapathy, S., & Morris, N.** (2023). Exertional dyspnea responses to the Dyspnea Challenge in heart failure: Comparison to chronic obstructive pulmonary disease. *Heart & Lung*, 58, 108–115. <https://doi.org/10.1016/j.hrtlng.2022.11.010>
- Alahakoon, C., Singh, T., Galappaththy, C., Charles, J., Fernando, M., Lazzarini, P., Moxon, J., & Golledge, J.** (2023). Risk Factors for Hospital Re-admission for Diabetes Related Foot Disease: A Prospective Cohort Study. *European Journal of Vascular and Endovascular Surgery*, 66(2), 221–228. <https://doi.org/10.1016/j.ejvs.2023.05.016>
- Alahakoon, C., Singh, T., Morris, D., Charles, J., Fernando, M., Lazzarini, P., Moxon, J., & Golledge, J.** (2023). Cohort Study Examining the Presentation, Distribution, and Outcomes of Peripheral Artery Disease in Aboriginal, Torres Strait Islander, and Non-Indigenous Australians. *European Journal of Vascular and Endovascular Surgery*, 66(2), 237–244. <https://doi.org/10.1016/j.ejvs.2023.05.027>
- Alahakoon, C., Thanigaimani, S., Seng, L., Fernando, M., Lazzarini, P., & Golledge, J.** (2023). Editor's Choice – A Systematic Review and Meta-Analysis of the Incidence and Risk Factors for Re-admission to Hospital in People with Diabetes Related Foot Disease. *European Journal of Vascular and Endovascular Surgery*, 66(2), 195–202. <https://doi.org/10.1016/j.ejvs.2023.05.007>
- Ali, S., Crawford, R., & Pandey, A.** (2023). Arthroscopic scene segmentation using multispectral reconstructed frames and deep learning. *Intelligent Medicine*, 3(4), 243–251. <https://doi.org/10.1016/j.imed.2022.10.006>
- Ali, S., Jonmohamadi, Y., Fontanarosa, D., Crawford, R., & Pandey, A.** (2023). One step surgical scene restoration for robot assisted minimally invasive surgery. *Scientific Reports*, 13(1), 3127. <https://doi.org/10.1038/s41598-022-26647-4>
- Ali, S., Jonmohamadi, Y., Takeda, Y., Roberts, J., Crawford, R., Brown, C., & Pandey, A.** (2023). *Surface Reflectance: A Metric for Untextured Surgical Scene Segmentation* (pp. 209–222). https://doi.org/10.1007/978-981-19-7528-8_17
- Apte, S., Groves, P., Tan, M., Lutzky, V., de Silva, T., Monteith, J., ... Chambers, D.** (2023). A Methodological Approach to Identify Natural Compounds with Antifibrotic Activity and the Potential to Treat Pulmonary Fibrosis Using Single-Cell Sequencing and Primary Human Lung Macrophages. *International Journal of Molecular Sciences*, 24(20). <https://doi.org/10.3390/ijms242015104>
- Assayag, D., Adegunsoye, A., Sheehy, R., Morisset, J., Khalil, N., Johannson, K., ... Ryerson, C.** (2023). Sex- and Race-Based Differences in the Treatment of Interstitial Lung Diseases in North America and Australasia. *Chest*, 163(5), 1156–1165. <https://doi.org/10.1016/j.chest.2022.12.039>
- Avtaar Singh, S., Das De, S., Al-Adhami, A., Singh, R., Hopkins, P., & Curry, P.** (2023). Primary graft dysfunction following lung transplantation: From pathogenesis to future frontiers. *World Journal of Transplantation*, 13(3), 58–85. <https://doi.org/10.5500/wjt.v13.i3.58>
- Baird, T., & Bell, S.** (2023). Cystic Fibrosis-Related Nontuberculous Mycobacterial Pulmonary Disease. *Clinics in Chest Medicine*, 44(4), 847–860. <https://doi.org/10.1016/j.ccm.2023.06.008>
- Banks, M., Webster, J., Bauer, J., Dwyer, K., Pelecanos, A., MacDermott, P., ... Capra, S.** (2023). Effect of supplements/intensive nutrition on pressure ulcer healing: a multicentre, randomised controlled study. *Journal of Wound Care*, 32(5), 292–300. <https://doi.org/10.12968/jowc.2023.32.5.292>
- Barnes, H., Chambers, D., Grainge, C., Corte, T., Bastiampillai, S., Frenkel, S., ... Glaspole, I.** (2023). Clinical utility of a standardized chronic hypersensitivity pneumonitis exposure questionnaire. *Respirology (Carlton, Vic.)*, 28(4), 366–372. <https://doi.org/10.1111/resp.14404>
- Barnes, H., Humphries, S., George, P., Assayag, D., Glaspole, I., Mackintosh, J., ... Walsh, S.** (2023). Machine learning in radiology: the new frontier in interstitial lung diseases. *The Lancet. Digital Health*, 5(1), e41–e50. [https://doi.org/10.1016/S2589-7500\(22\)00230-8](https://doi.org/10.1016/S2589-7500(22)00230-8)
- Barnett, A., Ball, L., Coppiters, M., Morris, N., Kendall, E., & Campbell, K.** (2023). Patients' experiences with rehabilitation care: a qualitative study to inform patient-centred outcomes. *Disability and Rehabilitation*, 45(8), 1307–1314. <https://doi.org/10.1080/09638288.2022.2057597>
- Battaglini, D., Premraj, L., Huth, S., Fanning, J., Whitman, G., Arora, R., ... Robba, C.** (2023). The Use of Noninvasive Multimodal Neuromonitoring in Adult Critically Ill Patients With COVID-19 Infection. *Journal of Neurosurgical Anesthesiology*, 35(4), 423–428. <https://doi.org/10.1097/ANA.0000000000000859>
- Bayat, M., Chan, W., Hay, K., McKenzie, S., & Ranasinghe, I.** (2023). Feasibility, Safety, and Efficacy of Spot Urinary Sodium-Guided Titration of Intravenous Diuretic Therapy in Acute Heart Failure: A Randomised Controlled Trial. *Heart, Lung and Circulation*, 32, S156. <https://doi.org/10.1016/j.hlc.2023.06.076>

Publications continued...

- Beaulieu-Bonneau, S., Dubois, L., Lafond-Desmarais, S., Fortin, S., Forest-Dionne, G., Ouellet, M., ... Gullo, H.** (2023). Use of smartphones and tablets after acquired brain injury to support cognition. *Disability and Rehabilitation: Assistive Technology*, 1–9. <https://doi.org/10.1080/17483107.2023.2199036>
- Behar Harpaz, S., Weber, M., Wade, S., Ngo, P., Vaneckova, P., Sarich, P., ... Canfell, K.** (2023). Updated cost-effectiveness analysis of lung cancer screening for Australia, capturing differences in the health economic impact of NELSON and NLST outcomes. *British Journal of Cancer*, 128(1), 91–101. <https://doi.org/10.1038/s41416-022-02026-8>
- Bell, J., Rushton, A., Elmas, K., Banks, M., Barnes, R., & Young, A.** (2023). Are Malnourished Inpatients Treated by Dietitians Active Participants in Their Nutrition Care? Findings of an Exploratory Study of Patient-Reported Measures across Nine Australian Hospitals. *Healthcare*, 11(8), 1172. <https://doi.org/10.3390/healthcare11081172>
- Bell, S., Sulfian, B., & Passamano, J.** (2023). Working with cystic fibrosis. In A. Bush, M. Amaral, J. Davies, N. Simmonds, J. Taylor-Cousar, & S. Ranganathan (Eds.), *Hodson and Geddes' Cystic Fibrosis* (5th ed.). CRC Press. <https://doi.org/10.1201/9781003262763>
- Bendotti, H., Ireland, D., Lawler, S., Oates, D., Gartner, C., & Marshall, H.** (2023). Introducing Quin: The Design and Development of a Prototype Chatbot to Support Smoking Cessation. *Nicotine and Tobacco Research*. <https://doi.org/10.1093/ntr/ntad217>
- Bendotti, H., Lawler, S., Chan, G., Gartner, C., Ireland, D., & Marshall, H.** (2023). Conversational artificial intelligence interventions to support smoking cessation: A systematic review and meta-analysis. *Digital Health*, 9. <https://doi.org/10.1177/20552076231211634>
- Bennett, R., Campbell, T., Garikapati, K., Kotake, Y., Turnbull, S., Kanawati, J., ... Kumar, S.** (2023). A Prospective, Multicentre Randomised Controlled Trial Comparing Catheter Ablation Versus Antiarrhythmic Drugs in Patients With Structural Heart Disease Related Ventricular Tachycardia: The CAAD-VT Trial Protocol. *Heart, Lung and Circulation*, 32(2), 184–196. <https://doi.org/10.1016/j.hlc.2022.09.006>
- Blake, T., Sly, P., Andersen, I., Wainwright, C., Reid, D., Bell, S., Kettle, A., & Dickerhof, N.** (2023). Changes in urinary glutathione sulfonamide (GSA) levels between admission and discharge of patients with cystic fibrosis. *MedRxiv*, 23297497.
- Boeddinghaus, J., Nestelberger, T., Koechlin, L., Lopez-Ayala, P., Wussler, D., Mais, M., ... Mueller, C.** (2023). Association of accompanying dyspnoea with diagnosis and outcome of patients presenting with acute chest discomfort. *European Heart Journal: Acute Cardiovascular Care*, 12(5), 283–295. <https://doi.org/10.1093/ehjacc/zuad026>
- Bolton, L., Skeoch, C., Bhudia, S., & Sutt, A.** (2023). Pharyngeal Dysphagia After Transesophageal Echocardiography. *Journal of Cardiothoracic and Vascular Anesthesia*, 37(9), 1751–1756. <https://doi.org/10.1053/j.jvca.2023.05.017>
- Bonney, A., Granger, C., Steinfert, D., Fong, K., Marshall, H., & Manser, R.** (2023). Physical activity and lung cancer screening: a feasibility RCT. *Respirology*, 28(S2), 179–179. <https://doi.org/10.1111/resp.14460>
- Bonney, A., Togawa, K., Ng, M., Christie, M., Fong, K., Marshall, H., ... Manser, R.** (2023). Prevalence of subclinical lung cancer detected at autopsy: a systematic review. *BMC Cancer*, 23(1), 794. <https://doi.org/10.1186/s12885-023-11224-3>
- Boone, A., Sing, T., Semenzin, C., Liao, S., Pauls, J., Gregory, S., & Tansley, G.** (2023). Ventricular Flow Dynamics With an Intra-Ventricular Balloon Pump: An In Vitro Analysis. *ASAIO Journal*, 69(4), 373–381. <https://doi.org/10.1097/MAT.0000000000001831>
- Bowers, P., & Ch'ng, S.** (2023). Does the atrial incision affect rates of early postoperative atrial arrhythmias in mitral valve surgery? *Interdisciplinary CardioVascular and Thoracic Surgery*, 37(5). <https://doi.org/10.1093/icvts/ivad181>
- Brewer, J., Broman, L., Swol, J., Lorusso, R., Conrad, S., & Maybauer, M.** (2023). Standardized nomenclature for peripheral percutaneous cannulation of the pulmonary artery in extracorporeal membrane oxygenation: Current uptake and recommendations for improvement. *Perfusion*. <https://doi.org/10.1177/02676591231210457>
- Brewer, J., Capoccia, M., Maybauer, D., Lorusso, R., Swol, J., & Maybauer, M.** (2023). The ProtekDuo dual-lumen cannula for temporary acute mechanical circulatory support in right heart failure: A systematic review. *Perfusion*, 38(1_suppl), 59–67. <https://doi.org/10.1177/02676591221149859>
- Brewer, J. M., Sparling, J., & Maybauer, M.** (2023). Venous arterial extracorporeal membrane oxygenation for “protected” catheter-based embolectomy in high-risk/massive pulmonary embolism. *Perfusion*, 026765912311677. <https://doi.org/10.1177/02676591231167713>
- Bui, U., Tehan, P., BarakatJohnson, M., Carville, K., Haesler, E., Lazzarini, P., ... Finlayson, K.** (2023). Assessment, management and prevention of chronic wounds in the Australian context: a scoping review. *Wound Practice and Research*, 31(3). <https://doi.org/10.33235/wpr.31.3.120-145>
- Burhan, E., Liu, K., Marwali, E., Huth, S., Wulung, N., Juzar, D., ... Fraser, J.** (2023). Characteristics and outcomes of patients with severe COVID-19 in Indonesia: Lessons from the first wave. *PLOS ONE*, 18(9), e0290964. <https://doi.org/10.1371/journal.pone.0290964>
- Burke, A., Carter, R., Tolson, C., Congdon, J., Duplancic, C., Bursle, E., ... Thomson, R.** (2023). In vitro susceptibility testing of imipenem-relebactam and tedizolid against 102 Mycobacterium abscessus isolates. *International Journal of Antimicrobial Agents*, 62(4), 106938. <https://doi.org/10.1016/j.ijantimicag.2023.106938>
- Burke, A., Thomson, R., Wainwright, C., & Bell, S.** (2023). Nontuberculous Mycobacteria in Cystic Fibrosis in the Era of Cystic Fibrosis Transmembrane Regulator Modulators. *Seminars in Respiratory and Critical Care Medicine*, 44(02), 287–296. <https://doi.org/10.1055/s-0042-1759883>
- Burrell, A., Ng, S., Ottosen, K., Bailey, M., Buscher, H., Fraser, J., ... Pilcher, D.** (2023). Blend to Limit Oxygen in ECMO: A Randomised Controlled Registry (BLENDER) Trial: Study Protocol and Statistical Analysis Plan. *Critical Care and Resuscitation*, 25(3), 118–125. <https://doi.org/10.1016/j.ccrj.2023.06.001>

- Burston, A.** (2023). Nursing care of people experiencing pain. In *Medical-Surgical Nursing: Critical Thinking in Client Care* (4th ed.). Pearson: Frenchs Forest.
- Burston, A.** (2023). Nursing care of people with cardiac disorders. In *Medical-Surgical Nursing: Critical Thinking in Client Care* (4th ed.). Pearson: Frenchs Forest.
- Burston, A.** (2023). Nursing care of people with coronary heart disease. In *Medical-Surgical Nursing: Critical Thinking in Client Care* (4th ed.). Pearson: Frenchs Forest.
- Burston, A., Miles, S., & Fulbrook, P.** (2023). Patient and carer experience of living with a pressure injury: A meta-synthesis of qualitative studies. *Journal of Clinical Nursing*, 32(13–14), 3233–3247. <https://doi.org/10.1111/jocn.16431>
- Camarda, C., Premraj, L., Pelosi, P., Cho, S., & Battaglini, D.** (2023). The stroke care puzzle: Does tracheostomy timing fit? *Critical Care*, 27(1), 216. <https://doi.org/10.1186/s13054-023-04482-x>
- Campbell, A., Gustafsson, L., Grimley, R., Gullo, H., Rosbergen, I., & Summers, M.** (2023). Mapping the trajectory of acute mild-stroke cognitive recovery using serial computerised cognitive assessment. *Brain Impairment*, 24(3), 629–648. <https://doi.org/10.1017/BrImp.2022.24>
- Cavalli, L., Pearse, B., Craswell, A., Anstey, C., Naidoo, R., Rapchuk, I., ... Fung, Y.** (2023). Determining sex-specific preoperative haemoglobin levels associated with intraoperative red blood cell transfusion in cardiac surgery: a retrospective cohort study. *British Journal of Anaesthesia*, 131(4), 653–663. <https://doi.org/10.1016/j.bja.2023.06.062>
- Chan, C., Murashige, T., Bieritz, S., Semenzin, C., Smith, A., Leslie, L., Simmonds, M., & Tansley, G.** (2023). Mitigation effect of cell exclusion on blood damage in spiral groove bearings. *Journal of Biomechanics*, 146, 111394. <https://doi.org/10.1016/j.jbiomech.2022.111394>
- Chang, A., Bell, S., Byrnes, C., Dawkins, P., Holland, A., Kennedy, E., ... Grimwood, K.** (2023). Thoracic Society of Australia and New Zealand (TSANZ) position statement on chronic suppurative lung disease and bronchiectasis in children, adolescents and adults in Australia and New Zealand. *Respirology*, 28(4), 339–349. <https://doi.org/10.1111/resp.14479>
- Chee, T., O'Farrell, H., Lima, L., Möller, A., Fong, K., Yang, I., & Bowman, R.** (2023). Optimal isolation of extracellular vesicles from pleural fluid and profiling of their microRNA cargo. *Journal of Extracellular Biology*, 2(10). <https://doi.org/10.1002/jex2.119>
- Chia, M., Rong H., & Windsor, M.** (2023). Metastatic lipoblastoma-like tumour. *ANZ Journal of Surgery*, 93(3), 689–691. <https://doi.org/10.1111/ans.17884>
- Chu, K., Kelly, A., Keijzers, G., Kinnear, F., Kuan, W., Graham, C., ... Wijeratne, T.** (2023). Computed tomography brain scan utilization in patients with headache presenting to emergency departments: a multinational study. *European Journal of Emergency Medicine*, 30(5), 356–364. <https://doi.org/10.1097/MEJ.0000000000001055>
- Clifford, Z., Bowers, P., & McCrystal, G.** (2023). Coronary artery aneurysms: the chest pain 'zebra'. *N Z Med J*, 136(1584), 91–94.
- Cox, I., Campbell, J., de Graaff, B., Otahal, P., Corte, T., Moodley, Y., ... Palmer, A.** (2023). Assessment of health-related quality of life in Australian patients with idiopathic pulmonary fibrosis: a comparison of the EQ-5D-5L and the AQL-8D. *Quality of Life Research: An International Journal of Quality of Life Aspects of Treatment, Care and Rehabilitation*, 32(2), 473–493. <https://doi.org/10.1007/s11136-022-03205-z>
- Cox, I., de Graaff, B., Ahmed, H., Campbell, J., Otahal, P., Corte, T., ... Palmer, A.** (2023). The economic burden of idiopathic pulmonary fibrosis in Australia: a cost of illness study. *The European Journal of Health Economics: HEPAC: Health Economics in Prevention and Care*, 24(7), 1121–1139. <https://doi.org/10.1007/s10198-022-01538-7>
- Cressman, S., Weber, M., Ngo, P., Wade, S., Behar Harpaz, S., Caruana, M., ... Tammemägi, M.** (2023). Economic impact of using risk models for eligibility selection to the International lung screening Trial. *Lung Cancer*, 176, 38–45. <https://doi.org/10.1016/j.lungcan.2022.12.011>
- Crowhurst, J., Tse, J., Mirjalili, N., Savage, M., Raffel, O., Gaikwad, N., ... Dautov, R.** (2023). Trial of a Novel Radiation Shielding Device to Protect Staff in the Cardiac Catheter Laboratory. *The American Journal of Cardiology*, 203, 429–435. <https://doi.org/10.1016/j.amjcard.2023.07.050>
- Crozier, I., Haqqani, H., Kotschet, E., Wiggenhorn, C., Lande, J., Thompson, A., ... O'Donnell, D.** (2023). Three-year chronic follow-up from the pilot study of a substernal extravascular implantable cardioverter-defibrillator. *Europace*, 25(10). <https://doi.org/10.1093/europace/euad301>
- Daley, M., Smith, S., Pearse, B., Rapier, J., Goh, S., Margale, S., ... Tesar, P.** (2023). The Evolution of Targeted Bleeding Management in Heart Transplant Recipients: A Single-Centre 11-Year Review. *Heart, Lung and Circulation*, 32, S22. <https://doi.org/10.1016/j.hlc.2023.04.064>
- Davidson, S., France, M., Callaway, L., Lust, K., Chambers, D., Hopkins, P., ... Barrett, H. L.** (2023). Pregnancy in women with cystic fibrosis and diabetes: An audit of outcomes at two tertiary obstetric hospitals in Australia in the pre-cystic fibrosis transmembrane conductance regulator modulator era. *Obstetric Medicine*, 16(4), 217–221. <https://doi.org/10.1177/1753495X221146342>
- Davies, S., Gullo, H., & Doig, E.** (2023). Efficacy and Feasibility of the CO-OP Approach in Parkinson's Disease: RCT Study Protocol. *Canadian Journal of Occupational Therapy*, 90(4), 363–373. <https://doi.org/10.1177/00084174231156287>
- De Silva, K., Haqqani, H., Mahajan, R., Qian, P., Chik, W., Voskoboinik, A., ... Kumar, S.** (2023). Catheter Ablation vs Antiarrhythmic Drug Therapy for Treatment of Premature Ventricular Complexes. *JACC: Clinical Electrophysiology*, 9(6), 873–885. <https://doi.org/10.1016/j.jacep.2023.01.035>
- De Silva, T., Apte, S., Voisey, J., Spann, K., Tan, M., Divithotawela, C., Chambers, D., & O'Sullivan, B.** (2023). Single-Cell Profiling of Cells in the Lung of a Patient with Chronic Hypersensitivity Pneumonitis Reveals Inflammatory Niche with Abundant CD39+ T Cells with Functional ATPase Phenotype: A Case Study. *International Journal of Molecular Sciences*, 24(19). <https://doi.org/10.3390/ijms241914442>

Publications continued...

- Dhanani, J., Pincus, J., Townsend, S., Pang, G., Vujcich, E., Windsor, M., & Reade, M.** (2023). Delayed Tracheoesophageal Fistula and Refractory Respiratory Failure Caused by Inhalation Burns and Emergency Venovenous ECMO to Facilitate Its Management: A Case Report. *Journal of Burn Care & Research*, 44(3), 734–739. <https://doi.org/10.1093/jbcr/irad040>
- Dhanapathy, V., Obonyo, N., White, N., Sela, D., Rachakonda, R., Tunbridge, M., ... Fraser, J.** (2023). Effects of Red Blood Cell Transfusion on Patients Undergoing Cardiac Surgery in Queensland—A Retrospective Cohort Study. *Heart, Lung and Circulation*, 32, S321. <https://doi.org/10.1016/j.hlc.2023.06.458>
- Divithotewala, C., Sweeney, E., Burke, A., Graves, B., Stewart, A., Whiley, D., ... Chambers, D.** (2023). Mycoplasma hominis and Ureaplasma urealyticum infections in the immediate post-lung transplant period: A case series and literature review. *Transplant Infectious Disease: An Official Journal of the Transplantation Society*, 25(3), e14058. <https://doi.org/10.1111/tid.14058>
- Dodd, R., Sharman, A., Marshall, H., Yap, M., Stone, E., Rhee, J., ... Rankin, N.** (2023). "What do I think about implementing lung cancer screening? It all depends on how." Acceptability and feasibility of lung cancer screening in Australia: The view of key stakeholders about health system factors. *PLOS ONE*, 18(4), e0283939. <https://doi.org/10.1371/journal.pone.0283939>
- Dodd, R., Sharman, A., McGregor, D., Stone, E., Donnelly, C., Lourenco, R., Marshall, H., & Rankin, N.** (2023). Education messages and strategies to inform the public, potential screening candidates and healthcare providers about lung cancer screening: A systematic review. *Preventive Medicine*, 169, 107459. <https://doi.org/10.1016/j.ypmed.2023.107459>
- Eastwood, G., Nichol, A., Hodgson, C., Parke, R., McGuinness, S., Nielsen, N., ... Bellomo, R.** (2023). Mild Hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest. *New England Journal of Medicine*, 389(1), 45–57. <https://doi.org/10.1056/NEJMod2214552>
- Eeles, E., Tran, D., Boyd, J., Tronstad, O., Teodorczuk, A., Flaws, D., ... Dissanayaka, N.** (2023). A narrative review of the development and performance characteristics of electronic delirium-screening tools. *Australian Critical Care*. <https://doi.org/10.1016/j.aucc.2023.11.006>
- Eeles, E., Tronstad, O., Flaws, D., Teodorczuk, A., Worthy, P., & Dissanayaka, N.** (2023). Adaptation of an electronic delirium screening tool for use in the medical setting based on a human centered design approach. *Delirium Communications*. <https://doi.org/10.56392/001c.77497>
- Egbers, P., Sutt, A., Petersson, J., Bergström, L., & Sundman, E.** (2023). High-flow via a tracheostomy tube and speaking valve during weaning from mechanical ventilation and tracheostomy. *Acta Anaesthesiologica Scandinavica*, 67(10), 1403–1413. <https://doi.org/10.1111/aas.14305>
- El Banayosy, A., El Banayosy, A., Smith, J., Brewer, J., Mihu, M., Swant, L., ... Maybauer, M.** (2023). Extracorporeal life support in pregnant and postpartum women with COVID-19-related acute respiratory distress syndrome. *The International Journal of Artificial Organs*, 46(5), 289–294. <https://doi.org/10.1177/03913988231168431>
- Emmanuel, S., Muthiah, K., Tardo, D., MacDonald, P., Hayward, C., McGiffin, D., ... Jansz, P.** (2023). Advances in cardiac machine perfusion: Exceeding 8 hours from procurement to implant without requiring extracorporeal membrane oxygenation. *The Journal of Heart and Lung Transplantation*, 42(12), 1766–1767. <https://doi.org/10.1016/j.healun.2023.08.003>
- Essilfie, A., Houston, N., Maniam, P., Hartel, G., Okano, S., & Reid, D.** (2023). Anti-protease levels in cystic fibrosis are associated with lung function, recovery from pulmonary exacerbations and may be gender-related. *Respirology*, 28(6), 533–542. <https://doi.org/10.1111/resp.14450>
- Evans, I., Kumar, S., France, M., Smith, D., Masel, P., Tay, G., ... Reid, D.** (2023). Paraquat ingestion in an adult with cystic fibrosis (CF): Diagnostic and management dilemmas. *Respirology Case Reports*, 11(12). <https://doi.org/10.1002/rcr2.1235>
- Fan, X., Lee, K., Jones, M., Howard, D., Sun, A., Crawford, R., & Prasad, I.** (2023). Spatial distribution of elements during osteoarthritis disease progression using synchrotron X-ray fluorescence microscopy. *Scientific Reports*, 13(1), 10200. <https://doi.org/10.1038/s41598-023-36911-w>
- Fan, X., Young, R., Sun, A., Hamilton, B., Nedunchezhiyan, U., Crawford, R., Blanksby, S. J., & Prasad, I.** (2023). Functional mass spectrometry imaging maps phospholipase-A2 enzyme activity during osteoarthritis progression. *Theranostics*, 13(13), 4636–4649. <https://doi.org/10.7150/thno.86623>
- Fanning, J., Roberts, S., Anstey, C., Yerkovich, S., Lu, L., Poon, K., ... Fraser, J.** (2023). Hemostatic Profiles of Patients Who Underwent Transcatheter Versus Surgical Aortic Valve Replacement Versus Percutaneous Coronary Intervention. *The American Journal of Cardiology*, 207, 260–270. <https://doi.org/10.1016/j.amjcard.2023.08.100>
- Fanning, J., Weaver, N., Fanning, R., Griffie, M., Cho, S., Panigada, M., ... Dalton, H.** (2023). Hemorrhage, Disseminated Intravascular Coagulopathy, and Thrombosis Complications Among Critically Ill Patients with COVID-19: An International COVID-19 Critical Care Consortium Study*. *Critical Care Medicine*, 51(5), 619–631. <https://doi.org/10.1097/CCM.0000000000005798>
- Finnimore, A., Theodoros, D., & Rumbach, A.** (2023). Clinical outcomes of PD Check-In, a model for supported self-managed maintenance of speech in Parkinson's disease: A Phase 1 study. *International Journal of Language & Communication Disorders*, 58(2), 241–255. <https://doi.org/10.1111/1460-6984.12772>
- Flaws, D., Allen, C., Baker, S., Barnett, A., Metcalf, O., Pollock, H., ... Varker, T.** (2023). A protocol for a pilot randomised controlled trial of an Early Psychiatric Assessment, Referral, and Intervention Study (EPARIS) for intensive care patients. *PLOS ONE*, 18(6), e0287470. <https://doi.org/10.1371/journal.pone.0287470>
- Flaws, D., Patterson, S., Bagshaw, T., Boon, K., Kenardy, J., Sellers, D., & Tronstad, O.** (2023). Caring for critically ill patients with a mental illness: A discursive paper providing an overview and case exploration of the delivery of intensive care to people with psychiatric comorbidity. *Nursing Open*, 10(11), 7106–7117. <https://doi.org/10.1002/nop2.1935>

- Franco, R., McKenna, E., Robey, P., Crawford, R., Doran, M., & Futrega, K.** (2023). SP7 gene silencing dampens bone marrow stromal cell hypertrophy, but it also dampens chondrogenesis. *Journal of Tissue Engineering*, 14. <https://doi.org/10.1177/20417314231177136>
- Frankel, A., Kellar, T., Zahir, F., Chambers, D., Hopkins, P., & Gotley, D.** (2023). Laparoscopic fundoplication after lung transplantation does not appear to alter lung function trajectory. *The Journal of Heart and Lung Transplantation: The Official Publication of the International Society for Heart Transplantation*, 42(5), 603–609. <https://doi.org/10.1016/j.healun.2022.12.001>
- Franklin, D., Babl, F., George, S., Oakley, E., Borland, M. L., Neutze, J., ... Schibler, A.** (2023). Effect of Early High-Flow Nasal Oxygen vs Standard Oxygen Therapy on Length of Hospital Stay in Hospitalized Children With Acute Hypoxemic Respiratory Failure. *JAMA*, 329(3), 224. <https://doi.org/10.1001/jama.2022.21805>
- Franklin, D., Babl, F., Neutze, J., Craig, S., Oakley, E., Furyk, J., ... Schibler, A.** (2023). Predictors of Intensive Care Admission in Hypoxemic Bronchiolitis Infants, Secondary Analysis of a Randomized Trial. *The Journal of Pediatrics*, 256, 92–97.e1. <https://doi.org/10.1016/j.jpeds.2022.12.006>
- Fulbrook, P., & Lovegrove, J.** (2023). Reporting accuracy of pressure injury categorisation in an acute tertiary hospital: A four-year analysis. *Journal of Clinical Nursing*, 32(17–18), 6403–6414. <https://doi.org/10.1111/jocn.16662>
- Fulbrook, P., Lovegrove, J., & Butterworth, J.** (2023). Incidence and characteristics of hospital-acquired mucous membrane pressure injury: A five-year analysis. *Journal of Clinical Nursing*, 32(13–14), 3810–3819. <https://doi.org/10.1111/jocn.16473>
- Fulbrook, P., Lovegrove, J., Hay, K., & Coyer, F.** (2023). State-wide prevalence of pressure injury in intensive care versus acute general patients: A five-year analysis. *Journal of Clinical Nursing*, 32(15–16), 4947–4961. <https://doi.org/10.1111/jocn.16687>
- Fulbrook, P., Miles, S. J., McCann, B., & Steele, M.** (2023). A short multi-factor screening tool to assess falls-risk in older people presenting to an Australian emergency department: A feasibility study. *International Emergency Nursing*, 70, 101335. <https://doi.org/10.1016/j.ienj.2023.101335>
- Fulbrook, P., Miles, S. J., & Williams, D. M.** (2023). Healing rate of hospital-acquired skin tears using adhesive silicone foam versus meshed silicone interface dressings: A prospective, randomized, non-inferiority pilot study. *International Journal of Nursing Practice*. <https://doi.org/10.1111/ijn.13229>
- Gandini, L., Fior, G., Schibler, A., Obonyo, N., Li Bassi, G., Suen, J., & Fraser, J.** (2023). Interleukin-6 inhibitors in non-COVID-19 ARDS: analyzing the past to step into the post-COVID-19 era. *Critical Care*, 27(1), 124. <https://doi.org/10.1186/s13054-023-04394-w>
- Gordon, L., Hopkins, P., Chambers, D., & Green, A.** (2023). Contribution of skin cancer to overall healthcare costs of lung transplantation in Queensland, Australia. *The Journal of Heart and Lung Transplantation: The Official Publication of the International Society for Heart Transplantation*, 42(10), 1437–1444. <https://doi.org/10.1016/j.healun.2023.05.014>
- Griffie, M., Bozza, P., Reyes, L., Eddington, D., Rosenberger, D., Merson, L., ... Zucman, D.** (2023). Thrombotic and hemorrhagic complications of COVID-19 in adults hospitalized in high-income countries compared with those in adults hospitalized in low- and middle-income countries in an international registry. *Research and Practice in Thrombosis and Haemostasis*, 7(5), 102142. <https://doi.org/10.1016/j.rpth.2023.102142>
- Griffie, M., Thomson, D., Fanning, J., Rosenberger, D., Barnett, A., White, N., ... Zanella, A.** (2023). Race and ethnicity in the COVID-19 Critical Care Consortium: demographics, treatments, and outcomes, an international observational registry study. *International Journal for Equity in Health*, 22(1), 260. <https://doi.org/10.1186/s12939-023-02051-w>
- Grota, T., Betihavas, V., Burston, A., & Jacob, E.** (2023). Roles of nurse-surgeons in global surgical care: A scoping review. *Journal of Advanced Nursing*. <https://doi.org/10.1111/jan.15906>
- Gurunathan, U., Chiang, L., Hines, J., Pearse, B., McKenzie, S., Hay, K., ... Eley, V.** (2023). Association Between Thromboelastometry Identified Hypercoagulability and Thromboembolic Complications After Arthroplasty: A Prospective Observational Study in Patients With Obesity. *Clinical and Applied Thrombosis/Hemostasis*, 29. <https://doi.org/10.1177/10760296231199737>
- Gurunathan, U., Tronstad, O., & Stonell, C.** (2023). Patient characteristics and preferences for a surgical prehabilitation program design: results from a pilot survey. *Journal of Cancer Research and Clinical Oncology*, 149(3), 1361–1367. <https://doi.org/10.1007/s00432-022-04420-4>
- Haqqani, H., Burri, H., Kayser, T., Carter, N., & Gold, M.** (2023). Association of interventricular activation delay with clinical outcomes in cardiac resynchronization therapy. *Heart Rhythm*, 20(3), 385–392. <https://doi.org/10.1016/j.hrthm.2022.11.012>
- Harrison, N., Dodd, R., Sharman, A., Marshall, H., Stone, E., Rhee, J., ... Rankin, N.** (2023). "A Core Part of the Whole Thing": Stakeholder Views on Offering Smoking Cessation Support in Lung Cancer Screening. *Journal of Thoracic Oncology*, 18(11), S186–S187. <https://doi.org/10.1016/j.jtho.2023.09.290>
- Harrison, N., Riddiford-Harland, D., York, S., Marshall, H., Rhee, J., Stone, E., ... Rankin, N.** (2023). Embedding Smoking Cessation into a Potential Lung Cancer Screening Program: Australian Tobacco Control Expert Perspectives. *Journal of Thoracic Oncology*, 18(11), S108. <https://doi.org/10.1016/j.jtho.2023.09.133>
- Harvey, G., Collyer, S., McRae, P., Barrimore, S., Demmitt, C., Lee-Steere, K., Nolan, B., & Mudge, A.** (2023). Navigating the facilitation journey: a qualitative, longitudinal evaluation of 'Eat Walk Engage' novice and experienced facilitators. *BMC Health Services Research*, 23(1), 1132. <https://doi.org/10.1186/s12913-023-10116-3>
- Heinsar, S., Bartnikowski, N., Hartel, G., Farah, S., Seah, E., Wu, E., ... Suen, J.** (2023). A comprehensive evaluation of hemodynamic energy production and circuit loss using four different ECMO arterial cannulae. *Artificial Organs*, 47(7), 1122–1132. <https://doi.org/10.1111/aor.14523>
- Hill, J., Massey, E., & Gullo, H.** (2023). Understanding the experience of community-based fitness professionals supporting people with disability to engage in sport and exercise: a national survey. *Disability and Rehabilitation*, 1–11. <https://doi.org/10.1080/09638288.2023.2246890>

Publications continued...

- Hill, J., Vogler, J., & Gullo, H.** (2023). Occupational therapists' understanding of supporting physical activity participation when working with children and adolescents: A national survey. *Australian Occupational Therapy Journal*, 70(3), 303–313. <https://doi.org/10.1111/1440-1630.12854>
- Ho, R., McDonald, C., Pauls, J., & Li, Z.** (2023a). Effect of aortic cannulation depth on air emboli transport during cardiopulmonary bypass: A computational study. *Perfusion*, 38(5), 993–1001. <https://doi.org/10.1177/02676591221092942>
- Ho, R., McDonald, C., Pauls, J., & Li, Z.** (2023b). Improving Trendelenburg position effectiveness by varying cardiopulmonary bypass flow. *Perfusion*, 38(6), 1213–1221. <https://doi.org/10.1177/02676591221108810>
- Huang, C., Weerasekara, A., Lu, J., Carter, R., Weynberg, K., Thomson, R., Bell, S., & Guo, J.** (2023). Extended water stagnation in buildings during the COVID-19 pandemic increases the risks posed by opportunistic pathogens. *Water Research X*, 21, 100201. <https://doi.org/10.1016/j.wroa.2023.100201>
- Hughes, J., Douglas, C., Jones, L., Brown, N., Nguyen, A., Jarugula, R., ... Chu, K.** (2023). Identifying patients presenting in pain to the adult emergency department: A binary classification task and description of prevalence. *International Emergency Nursing*, 68, 101272. <https://doi.org/10.1016/j.ienj.2023.101272>
- Hwang, R., Gane, E., & Morris, N.** (2023). No transport? No worries! Cardiac telerehabilitation is a feasible and effective alternative to centre-based programs. *Heart Failure Reviews*, 28(6), 1277–1284. <https://doi.org/10.1007/s10741-023-10301-w>
- Ijuin, S., Liu, K., Gill, D., Kyun Ro, S., Vukovic, J., Ishihara, S., ... Fraser, J.** (2023). Current animal models of extracorporeal cardiopulmonary resuscitation: A scoping review. *Resuscitation Plus*, 15, 100426. <https://doi.org/10.1016/j.resplu.2023.100426>
- Islam, N., Cichero, E., Rahman, S., & Ranasinghe, I.** (2023). Novel Pulmonary Delivery of Drugs for the Management of Atrial Fibrillation. *American Journal of Cardiovascular Drugs*, 23(1), 1–7. <https://doi.org/10.1007/s40256-022-00551-8>
- Jarl, G., Rusaw, D., Terrill, A., Barnett, C., Woodruff, M., & Lazzarini, P.** (2023). Personalized Offloading Treatments for Healing Plantar Diabetic Foot Ulcers. *Journal of Diabetes Science and Technology*, 17(1), 99–106. <https://doi.org/10.1177/19322968221101632>
- Jarl, G., van Netten, J., & Lazzarini, P.** (2023). Fragile Feet and Trivial Trauma: Communicating the Etiology of Diabetic Foot Ulcers to Patients. *Journal of the American Podiatric Medical Association*, 113(1). <https://doi.org/10.7547/21-027>
- Javidfar, J., Zaaqoq, A., Labib, A., Barnett, A., Hayanga, J., Eschun, G., ... Peek, G.** (2023). Morbid obesity's impact on COVID-19 patients requiring venovenous extracorporeal membrane oxygenation: The covid-19 critical care consortium database review. *Perfusion*, 026765912311564. <https://doi.org/10.1177/02676591231156487>
- Jepson, H., Lazzarini, P., Garrett, M., & Carroll, M.** (2023). How does the clinical practice of Aotearoa New Zealand podiatrists align with international guidelines for the prevention of diabetes-related foot disease? A cross-sectional survey. *Journal of Foot and Ankle Research*, 16(1). <https://doi.org/10.1186/s13047-023-00651-x>
- Kanagarajan, D., Heinsar, S., Gandini, L., Suen, J., Dau, V., Pauls, J., & Fraser, J.** (2023). Preclinical Studies on Pulsatile Venous-Arterial Extracorporeal Membrane Oxygenation: A Systematic Review. *ASAIO Journal*, 69(5), e167–e180. <https://doi.org/10.1097/MAT.0000000000001922>
- Karunathilaka, N., Parker, C., Lazzarini, P., MacAndrew, M., & Finlayson, K.** (2023). Investigating cognition in people with diabetes-related foot ulcers: a study protocol. *Wound Practice and Research*, 31(4). <https://doi.org/10.33235/wpr.31.4.197-203>
- Kenyon, S. K., Wijesekera, V., & Wesley, A.** (2023). Case report on the radiographic features of epipericardial fat necrosis in a patient presenting with acute chest pain. *Journal of Medical Imaging and Radiation Oncology*, 67(5), 509–513. <https://doi.org/10.1111/1754-9485.13562>
- Kirk, F., Chang, S., Yong, M., He, C., Hughes, I., Yadav, S., ... Stroebel, A.** (2023). Thoracic Surgery and the Elderly; Is Lobectomy Safe in Octogenarians? *Heart, Lung and Circulation*, 32(6), 755–762. <https://doi.org/10.1016/j.hlc.2023.03.005>
- Kirk, F., Crathern, K., Chang, S., Yong, M., He, C., Hughes, I., ... Stroebel, A.** (2023). The influence of the COVID-19 pandemic on lung cancer surgery in Queensland. *ANZ Journal of Surgery*, 93(6), 1536–1542. <https://doi.org/10.1111/ans.18465>
- Kirk, F., Syed Ahmad, S., Lam, C., Yong, M., He, C., Yadav, S., ... Stroebel, A.** (2023). Comparison of Lung Cancer Surgery Outcomes in Queensland for Indigenous and Nonindigenous Australians. *JTO Clinical and Research Reports*, 4(10), 100567. <https://doi.org/10.1016/j.jtocr.2023.100567>
- Koehlin, L., Strebel, I., Zimmermann, T., Nestelberger, T., Walter, J., Lopez-Ayala, P., ... Osswald, S.** (2023). Hyperacute T Wave in the Early Diagnosis of Acute Myocardial Infarction. *Annals of Emergency Medicine*, 82(2), 194–202. <https://doi.org/10.1016/j.annemergmed.2022.12.003>
- Korkchi, N., Ngo, L., Fong, K., Chaudhuri, A., Godbolt, D., & Ranasinghe, I.** (2023). Pericardial infiltration and constriction due to cardiac actinomycosis—case report. *European Heart Journal - Case Reports*, 7(11). <https://doi.org/10.1093/ehjcr/ytad510>
- Kumarasamy, C., Betts, K., Norman, R., McWilliams, A., Stone, E., Manser, R., ... Brims, F.** (2023). Pre-Recruitment as a Strategy to Address “Near-Miss” Cases in Risk-Based Lung Cancer Screening Selection: An Analysis of ILST Data. *Journal of Thoracic Oncology*, 18(11), S59–S60. <https://doi.org/10.1016/j.jtho.2023.09.050>
- Kung, S., Dixon, O., Kentwell, S., Vasireddy, R., Rodgers, J., Ding, Y., ... Mackintosh, J.** (2023). Telomere biology disorder presenting acutely with pulmonary fibrosis and hepatopulmonary syndrome in a young adult male. *Respirology Case Reports*, 11(8). <https://doi.org/10.1002/rcr.21182>
- Kurup, C., Bethavadas, V., Burston, A., & Jacob, E.** (2023). Strategies employed by developed countries to facilitate the transition of internationally qualified nurses specialty skills into clinical practice: An integrative review. *Nursing Open*, 10(12), 7528–7543. <https://doi.org/10.1002/nop.2.2023>

- Kurup, C., Burston, A., & Miles, S.** (2023). Transition of internationally qualified nurses in Australia: Meta-synthesis of qualitative studies. *Collegian*, 30(2), 357–366. <https://doi.org/10.1016/j.colegn.2022.10.002>
- Kurup, C., Burston, A., Bethavvas, V., & Jacob, E.** (2023). The perspectives of internationally qualified nurses regarding their specialty skill transition to Australia: A cross-sectional survey. *Journal of Advanced Nursing*. <https://doi.org/10.1111/jan.15952>
- Lau, F., Chan, W., Mok, Y., Lai, P., Ma, S., Ngai, C., ... Ng, P.** (2023). Feasibility of pump-controlled retrograde trial off in weaning from veno-arterial ECMO in adults: A single-center case series. *Artificial Organs*, 47(6), 1046–1058. <https://doi.org/10.1111/aor.14527>
- Lazzarini, P., Cramb, S., Golledge, J., Morton, J., Magliano, D., & Van Netten, J.** (2023). Global trends in the incidence of hospital admissions for diabetes-related foot disease and amputations: a review of national rates in the 21st century. *Diabetologia*, 66(2), 267–287. <https://doi.org/10.1007/s00125-022-05845-9>
- Lazzarini, P., Raspovic, A., Prentice, J., Commons, R., Fitridge, R., Charles, J., ... Twigg, S.** (2023). Australian evidence-based guidelines for the prevention and management of diabetes-related foot disease: a guideline summary. *Medical Journal of Australia*, 219(10), 485–495. <https://doi.org/10.5694/mja.252136>
- Lee, A., Smith, R., Burr, L., Chang, A., Holmes-Liew, C., King, P., ... McAleer, R.** (2023). ‘Teach me how to look after myself’: What people with bronchiectasis want from education in a pulmonary rehabilitation setting. *The Clinical Respiratory Journal*, 17(1), 59–69. <https://doi.org/10.1111/crj.13563>
- Leng, A., Shah, M., Ahmad, S., Premraj, L., Wildi, K., Li Bassi, G., ... Cho, S.** (2023). Pathogenesis Underlying Neurological Manifestations of Long COVID Syndrome and Potential Therapeutics. *Cells*, 12(5), 816. <https://doi.org/10.3390/cells12050816>
- Levido, A., Fulbrook, P., Barakat-Johnson, M., Campbell, J., Delaney, L., Latimer, S., ... Coyer, F.** (2023). Pressure injury prevention practice in Australian intensive care units: A national cross-sectional survey. *Australian Critical Care*, 36(2), 186–194. <https://doi.org/10.1016/j.aucc.2021.11.004>
- Levy, S., Sharaf Dabbagh, G., Giudicessi, J. R., Haqqani, H., Khanji, M., Obeng-Gyimah, E., ... Chahal, C.** (2023). Genetic mechanisms underlying arrhythmogenic mitral valve prolapse: Current and future perspectives. *Heart Rhythm O2*, 4(9), 581–591. <https://doi.org/10.1016/j.hroo.2023.08.003>
- Lobb, R., Visan, K., Wu, L., Norris, E., Hastie, M., Everitt, S., ... Möller, A.** (2023). An epithelial-to-mesenchymal transition induced extracellular vesicle prognostic signature in non-small cell lung cancer. *Communications Biology*, 6(1), 68. <https://doi.org/10.1038/s42003-022-04350-4>
- Lovegrove, J., Ven, S., Miles, S., & Fulbrook, P.** (2023). Comparison of pressure injury risk assessment outcomes using a structured assessment tool versus clinical judgement: A systematic review. *Journal of Clinical Nursing*, 32(9–10), 1674–1690. <https://doi.org/10.1111/jocn.16154>
- Lucas, S., Raspin, K., Mackintosh, J., Glaspole, I., Reynolds, P., Chia, C., ... Dickinson, J.** (2023). Preclinical interstitial lung disease in relatives of familial pulmonary fibrosis patients. *Pulmonology*, 29(3), 257–260. <https://doi.org/10.1016/j.pulmoe.2022.09.002>
- Lyster, H., Shekar, K., Watt, K., Reed, A., Roberts, J., & Abdul-Aziz, M.** (2023). Antifungal Dosing in Critically Ill Patients on Extracorporeal Membrane Oxygenation. *Clinical Pharmacokinetics*, 62(7), 931–942. <https://doi.org/10.1007/s40262-023-01264-0>
- Macdonald, S., Bosio, E., Keijzers, G., Burrows, S., Hibbs, M., O'Donoghue, H., ... Hazelwood, S.** (2023). Effect of intravenous fluid volume on biomarkers of endothelial glycocalyx shedding and inflammation during initial resuscitation of sepsis. *Intensive Care Medicine Experimental*, 11(1), 21. <https://doi.org/10.1186/s40635-023-00508-4>
- Malfertheiner, M., Garrett, A., Passmore, M., Haymet, A., Webb, R., Von Bahr, V., ... Fraser, J.** (2023). The effects of nitric oxide on coagulation and inflammation in ex vivo models of extracorporeal membrane oxygenation and cardiopulmonary bypass. *Artificial Organs*, 47(10), 1581–1591. <https://doi.org/10.1111/aor.14608>
- Marshall, H., Gartner, C., & Fong, K.** (2023). The tobacco endgame for the Asia Pacific. *Respirology*, 28(4), 309–312. <https://doi.org/10.1111/resp.14465>
- Mattison, G., Canfell, O., Forrester, D., Dobbins, C., Smith, D., Reid, D., & Sullivan, C.** (2023). A step in the right direction: the potential role of smartwatches in supporting chronic disease prevention in health care. *Medical Journal of Australia*, 218(9), 384–388. <https://doi.org/10.5694/mja2.51920>
- Mayall, J., Pillar, A., Daly, K., Brown, A., Essilfie, A., Gomez, H., ... Horvat, J.** (2023). Iron metabolism determines the outcome of influenza A virus infection. *10.01 - Respiratory Infections and Bronchiectasis*, 71. <https://doi.org/10.1183/23120541.LSC-2023.71>
- Maybauer, M., Koerner, M., Swol, J., El Banayosy, A., & Maybauer, D.** (2023). The novel ProtekDuo ventricular assist device: Configurations, technical aspects, and present evidence. *Perfusion*, 38(5), 887–893. <https://doi.org/10.1177/02676591221090607>
- Maybauer, M., Maybauer, D., & Capoccia, M.** (2023). Extracorporeal life support in pediatric burn care: A systematic review. *The International Journal of Artificial Organs*, 46(3), 182–187. <https://doi.org/10.1177/03913988231155508>
- Mayer-Hamblett, N., Clancy, J., Jain, R., Donaldson, S., Fajac, I., Goss, C., ... Downey, D.** (2023). Advancing the pipeline of cystic fibrosis clinical trials: a new roadmap with a global trial network perspective. *The Lancet Respiratory Medicine*, 11(10), 932–944. [https://doi.org/10.1016/S2213-2600\(23\)00297-7](https://doi.org/10.1016/S2213-2600(23)00297-7)
- McDonald, V., Maddocks, M., Tiedeman, C., Dixon, O., & Yang, I.** (2023). Asthma and Chronic Obstructive Pulmonary Disease in Older Adults. In *Brocklehurst's Textbook of Geriatric Medicine and Gerontology* (Vol. 9e).
- Meier, M., Boeddinghaus, J., Nestelberger, T., Koechlin, L., Lopez-Ayala, P., Wussler, D., ... Mueller, C.** (2023). Comparing the utility of clinical risk scores and integrated clinical judgement in patients with suspected acute coronary syndrome. *European Heart Journal: Acute Cardiovascular Care*, 12(10), 693–702. <https://doi.org/10.1093/ehjacc/zuad081>

Publications continued...

- Mihu, M., Maybauer, M., Cain, K., Swant, L., Harper, M., Schoaps, R., ... El Banayosy, A.** (2023). Bridging the gap: safety and outcomes of intensivist-led ECMO retrievals. *Frontiers in Medicine*, 10. <https://doi.org/10.3389/fmed.2023.1239006>
- Mikolasch, T., George, P., Sahota, J., Nancarrow, T., Barratt, S., Woodhead, F., ... Porter, J.** (2023). Multi-center evaluation of baseline neutrophil-to-lymphocyte (NLR) ratio as an independent predictor of mortality and clinical risk stratifier in idiopathic pulmonary fibrosis. *EClinicalMedicine*, 55, 101758. <https://doi.org/10.1016/j.eclinm.2022.101758>
- Morris, N., Kermeen, F., Jones, A., Lee, J., & Holland, A.** (2023). Exercise-based rehabilitation programmes for pulmonary hypertension. *Cochrane Database of Systematic Reviews*, 2023(3). <https://doi.org/10.1002/14651858.CD011285.pub3>
- Motos, A., Yang, H., Li Bassi, G., Yang, M., Meli, A., Battaglini, D., ... Torres, A.** (2023). Inhaled amikacin for pneumonia treatment and dissemination prevention: an experimental model of severe monolateral *Pseudomonas aeruginosa* pneumonia. *Critical Care*, 27(1), 60. <https://doi.org/10.1186/s13054-023-04331-x>
- Mu, Y., Du, Z., Xiao, L., Gao, W., Crawford, R., & Xiao, Y.** (2023). The Localized Ionic Microenvironment in Bone Modelling/Remodelling: A Potential Guide for the Design of Biomaterials for Bone Tissue Engineering. *Journal of Functional Biomaterials*, 14(2), 56. <https://doi.org/10.3390/jfb14020056>
- Mudannayake, R., Lwin, T., Falter, F., & Miles, L.** (2023). The HEPDOSE pilot study: the use of the PRODOSE algorithm to reverse the effects of the administration of initial high dose unfractionated heparin. *Journal of Cardiothoracic and Vascular Anesthesia*, 37, 2. <https://doi.org/10.1053/j.jvca.2023.08.014>
- Nair, L., Winkle, B., & Senanayake, E.** (2023). Managing blunt cardiac injury. *Journal of Cardiothoracic Surgery*, 18(1), 71. <https://doi.org/10.1186/s13019-023-02146-z>
- Najman, J., Bell, S., Williams, G., Clavarino, A., Scott, J., McGee, T., & Mamun, A.** (2023). Do tobacco and cannabis use and co-use predict lung function: A longitudinal study. *Respiratory Medicine*, 208, 107124. <https://doi.org/10.1016/j.rmed.2023.107124>
- Nakanishi, N., Liu, K., Kawachi, A., Okamura, M., Tanaka, K., Katayama, S., ... Nishida, O.** (2023). Instruments to assess post-intensive care syndrome assessment: a scoping review and modified Delphi method study. *Critical Care*, 27(1), 430. <https://doi.org/10.1186/s13054-023-04681-6>
- Nash, J., Swann, T., McWilliams, A., Stone, E., Marshall, H., Stirling, R., ... Brims, F.** (2023). The Lung Cancer Clinical Quality Data Platform (LUCAP): Results from a Western Australia Pilot Study. *Journal of Thoracic Oncology*, 18(11), S733-S734. <https://doi.org/10.1016/j.jtho.2023.09.1418>
- Ngo, L., Denman, R., Hay, K., Kaambwa, B., Ganesan, A., & Ranasinghe, I.** (2023). Excess Bed Days and Hospitalization Costs Associated With 30-Day Complications Following Catheter Ablation of Atrial Fibrillation. *Journal of the American Heart Association*, 12(23). <https://doi.org/10.1161/JAHA.123.030236>
- Ngo, L., Lee, X., Elwashahy, M., Arumugam, P., Yang, I., Denman, R., Haqqani, H., & Ranasinghe, I.** (2023). Freedom from atrial arrhythmia and other clinical outcomes at 5 years and beyond after catheter ablation of atrial fibrillation: a systematic review and meta-analysis. *European Heart Journal - Quality of Care and Clinical Outcomes*, 9(5), 447-458. <https://doi.org/10.1093/ehjqcco/qcad037>
- Ngo, L., Woodman, R., Denman, R., Walters, T. E., Yang, I., & Ranasinghe, I.** (2023). Longitudinal risk of death, hospitalizations for atrial fibrillation, and cardiovascular events following catheter ablation of atrial fibrillation: a cohort study. *European Heart Journal - Quality of Care and Clinical Outcomes*, 9(2), 150-160. <https://doi.org/10.1093/ehjqcco/qcac024>
- Nguyen, M., Ali, A., Ngo, L., Ellis, C., Psaltis, P., & Ranasinghe, I.** (2023). Thirty-Day Unplanned Readmissions Following Elective and Acute Percutaneous Coronary Intervention. *Heart, Lung and Circulation*, 32(5), 619-628. <https://doi.org/10.1016/j.hlc.2023.02.013>
- Nguyen, T., He, C., Carter, R., Ballard, E., Smith, K., Groth, R., ... Knibbs, L.** (2023). Quantifying the effectiveness of ultraviolet-C light at inactivating airborne *Mycobacterium abscessus*. *Journal of Hospital Infection*, 132, 133-139. <https://doi.org/10.1016/j.jhin.2022.10.008>
- Nicholson, A.** (2023). Optimal positioning: Setting up for success without an anaesthetic rotation. *Emergency Medicine Australasia*, 35(3), 523-524. <https://doi.org/10.1111/1742-6723.14213>
- Notsuyu, A., Naraba, H., Liu, K., Ikechi, D., Nakano, H., Mochizuki, M., ... Nakamura, K.** (2023). Relationship between grip strength during hospitalisation and mental disorders after discharge in critically ill patients: a post-hoc analysis of a prospective observational study. *BMJ Open*, 13(5), e068983. <https://doi.org/10.1136/bmjopen-2022-068983>
- Obonyo, N., & Etyang, A.** (2023). Cardiovascular Health Priorities in Sub-Saharan Africa. *SN Comprehensive Clinical Medicine*, 5(1), 262. <https://doi.org/10.1007/s42399-023-01605-x>
- Obonyo, N., Sela, D., Raman, S., Rachakonda, R., Schneider, B., Hoe, L., ... Fraser, J.** (2023a). Resuscitation Associated Endotheliopathy (PubMed). *SearchRxiv*, 2023. <https://doi.org/10.1079/searchRxiv.2023.00206>
- Obonyo, N., Sela, D., Raman, S., Rachakonda, R., Schneider, B., Hoe, L., ... Fraser, J.** (2023b). Resuscitation-associated endotheliopathy (RAE): a conceptual framework based on a systematic review and meta-analysis. *Systematic Reviews*, 12(1), 221. <https://doi.org/10.1186/s13643-023-02385-0>
- O'Callaghan, W., Thompson, M., Wuestemann, T., Whitehouse, S., & Crawford, R.** (2023). Three-Dimensional CT-Based Limb Length Evaluation Is Highly Dependent on Anatomical Landmark Selection and Pelvic Asymmetry. *Arthroplasty Today*, 23, 101206. <https://doi.org/10.1016/j.artd.2023.101206>
- Odo, D., Yang, I., Dey, S., Hammer, M., van Donkelaar, A., Martin, R., ... Knibbs, L.** (2023a). A cross-sectional analysis of ambient fine particulate matter (PM_{2.5}) exposure and haemoglobin levels in children aged under 5 years living in 36 countries. *Environmental Research*, 227, 115734. <https://doi.org/10.1016/j.envres.2023.115734>

- Odo, D., Yang, I., Dey, S., Hammer, M., van Donkelaar, A., Martin, R., ... Knibbs, L.** (2023b). A cross-sectional analysis of long-term exposure to ambient air pollution and cognitive development in children aged 3–4 years living in 12 low- and middle-income countries. *Environmental Pollution*, 318, 120916. <https://doi.org/10.1016/j.envpol.2022.120916>
- O’Gorman, P., Nair, L., Kisiel, N., Hughes, I., Huang, K., Hsu, C., ... Singh, K.** (2023). Meta-analysis assessing the sensitivity and specificity of 18F-FDG PET/CT for the diagnosis of prosthetic valve endocarditis (PVE) using individual patient data (IPD). *American Heart Journal*, 261, 21–34. <https://doi.org/10.1016/j.ahj.2023.03.004>
- Owens, A., Sridhan, B., Burston, A., & Hurley, L.** (2023). Four restless narratives: convener reflections on social learning communities at an Australian university. *Journal on Excellence in College Teaching*, 34(4), 29–45.
- Oxenford, C., Fryar, J., Pelecanos, A., O’Rourke, P., Tan, C., & Alghamry, A.** (2023). The utility of delta troponin in diagnosing significant coronary artery disease in patients with symptomatic atrial fibrillation. *Coronary Artery Disease*, 34(3), 195–201. <https://doi.org/10.1097/MCA.0000000000001228>
- Ozawa, S., Ozawa-Morriello, J., Perelman, S., Thorpe, E., Rock, R., & Pearce, B.** (2023). Improving Patient Blood Management Programs: An Implementation Science Approach. *Anesthesia & Analgesia*, 136(2), 397–407. <https://doi.org/10.1213/ANE.00000000000006273>
- Palmer, T., Obst, S., Aitken, C., Walsh, J., Sabapathy, S., Adams, L., & Morris, N.** (2023). Fixed-intensity exercise tests to measure exertional dyspnoea in chronic heart and lung populations: a systematic review. *European Respiratory Review*, 32(169), 230016. <https://doi.org/10.1183/16000617.0016-2023>
- Palmieri, C., See Hoe, L., Dyer, W., Heinsar, S., Rozencaig, S., Tung, J., ... Fraser, J.** (2023). Proposal of a reliable scoring system for the histological assessment of multiorgan injury in large animal models of ischaemia and shock. *Journal of Comparative Pathology*, 203, 57–58. <https://doi.org/10.1016/j.jcpa.2023.03.059>
- Pandeya, N., Huang, N., Jiyad, Z., Plasmeijer, E., Way, M., Isbel, N., ... Green, A.** (2023). Basal cell carcinomas in organ transplant recipients versus the general population: clinicopathologic study. *Archives of Dermatological Research*, 315(4), 771–777. <https://doi.org/10.1007/s00403-022-02403-6>
- Pandeya, N., Isbel, N., Campbell, S., Chambers, D., Hopkins, P., Soyler, H., ... Green, A.** (2023). High-risk Prognostic Tumor Features of Squamous Cell Carcinomas in Organ Transplant Recipients Compared With the General Population. *JAMA Dermatology*, 159(8), 854–858. <https://doi.org/10.1001/jamadermatol.2023.1574>
- Parker, K., Bartholomew, K., Schaapveld, T., Steel, G., Fraser, A., Davis, B., ... Crengle, S.** (2023). Te Oranga Pūkahu: Developing an Indigenous Māori Led Approach to Lung Cancer Screening. *Journal of Thoracic Oncology*, 18(11), S228. <https://doi.org/10.1016/j.jtho.2023.09.374>
- Patel, N., Dahl, K., O’Rourke, R., Williamson, A., Chatfield, M., Fong, K., Yang, I., & Marshall, H.** (2023). Vertebral CT attenuation outperforms standard clinical fracture risk prediction tools in detecting osteoporotic disease in lung cancer screening participants. *The British Journal of Radiology*, 96(1151). <https://doi.org/10.1259/bjr.20220992>
- Patukale, A., Marathe, S., Betts, K., Daley, M., Shetty, G., Anand, A., ... Alphonso, N.** (2023). CardioCel® for repair of congenital heart defects: nationwide results of over 1000 implants. *European Journal of Cardio-Thoracic Surgery*, 64(4). <https://doi.org/10.1093/ejcts/ezad343>
- Peel, T., Astbury, S., Cheng, A., Paterson, D., Buising, K., Spelman, T., ... de Steiger, R.** (2023). Trial of Vancomycin and Cefazolin as Surgical Prophylaxis in Arthroplasty. *New England Journal of Medicine*, 389(16), 1488–1498. <https://doi.org/10.1056/NEJMoa2301401>
- Pham, A., Volmer, J., Chambers, D., Smith, D., Reid, D., Burr, L., & Wells, T.** (2023). Genomic analyses of Burkholderia respiratory isolates indicates two evolutionarily distinct B. anthina clades. *Frontiers in Microbiology*, 14. <https://doi.org/10.3389/fmicb.2023.1274280>
- Ploderer, B., Clark, D., Brown, R., Harman, J., Lazzarini, P., & Van Netten, J.** (2023). Self-Monitoring Diabetes-Related Foot Ulcers with the MyFootCare App: A Mixed Methods Study. *Sensors*, 23(5), 2547. <https://doi.org/10.3390/s23052547>
- Porter, A., Naidoo, R., Morgan, T., & Reddy, T.** (2023). A rare case of true thymic hyperplasia in an adult. *Radiology Case Reports*, 18(10), 3582–3585. <https://doi.org/10.1016/j.radcr.2023.07.033>
- Premraj, L., Camarda, C., White, N., Godoy, D., Cuthbertson, B., Rocco, P., ... Battaglini, D.** (2023). Tracheostomy timing and outcome in critically ill patients with stroke: a meta-analysis and meta-regression. *Critical Care*, 27(1), 132. <https://doi.org/10.1186/s13054-023-04417-6>
- Puchalski, R., Denman, R., Haqqani, H., & Deen, V.** (2023). Consecutive Experience with Left Bundle Branch Area Pacing in a High-Volume Australian Centre. *Heart, Lung and Circulation*, 32(8), 993–999. <https://doi.org/10.1016/j.hlc.2023.04.293>
- Raj, J., Thompson, M., Whitehouse, S., Jaiprakash, A., Varughese, I., & Crawford, R.** (2023). Downsizing and minimising medialisation of the acetabular component: Novel technique to preserve bone in THA. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 237(3), 368–374. <https://doi.org/10.1177/09544119231152351>
- Rami-Porta, R., & Fong, K.** (2023). Stage IV lung cancer: the relevance of tumour profile for the construction of prognostic groups. *European Respiratory Journal*, 61(2), 2202094. <https://doi.org/10.1183/13993003.02094-2022>
- Ramsay, K., Rehman, A., Wardell, S., Martin, L., Bell, S., Patrick, W., Winstanley, C., & Lamont, I.** (2023). Ceftazidime resistance in *Pseudomonas aeruginosa* is multigenic and complex. *PLOS ONE*, 18(5), e0285856. <https://doi.org/10.1371/journal.pone.0285856>
- Ray-Barruel, G., Chopra, V., Fulbrook, P., Lovegrove, J., Mihala, G., Wishart, M., ... Rickard, C.** (2023). The impact of a structured assessment and decision tool (I-DECIDED®) on improving care of peripheral intravenous catheters: A multicenter, interrupted time-series study. *International Journal of Nursing Studies*, 148, 104604. <https://doi.org/10.1016/j.ijnurstu.2023.104604>

Publications continued...

- Rebgetz, P., McCarthy, T., McLaren, H., Wilson, M., Whitehouse, S., & Crawford, R.** (2023). Achieving Target Cemented Femoral Stem Anteversion Using a 3-Dimensional Model. *Arthroplasty Today*, 19, 101084. <https://doi.org/10.1016/j.artd.2022.101084>
- Redd, M., Yoshikawa, Y., Khan, N., Waqar, M., Saez, N., Outhwaite, J., ... Palpant, N.** (2023). Acid-sensing ion channel 1a blockade reduces myocardial injury in rodent models of myocardial infarction. *European Heart Journal*. <https://doi.org/10.1093/eurheartj/ehad793>
- Ro, S., Sato, K., Ijuin, S., Sela, D., Fior, G., Heinsar, S., ... Fraser, J.** (2023). Assessment and diagnosis of right ventricular failure—retrospection and future directions. *Frontiers in Cardiovascular Medicine*, 10. <https://doi.org/10.3389/fcvm.2023.1030864>
- Rozencajaj, S., Heinsar, S., Wildi, K., Jung, J., Colombo, S., Palmieri, C., ... Fraser, J.** (2023). Effect of flow change on brain injury during an experimental model of differential hypoxaemia in cardiogenic shock supported by extracorporeal membrane oxygenation. *Scientific Reports*, 13(1), 4002. <https://doi.org/10.1038/s41598-023-30226-6>
- Ryan, H., Ballard, E., Stockwell, R., Duplancic, C., Thomson, R., Smith, K., & Bell, S.** (2023). A systematic review of the clinical impact of small colony variants in patients with cystic fibrosis. *BMC Pulmonary Medicine*, 23(1), 323. <https://doi.org/10.1186/s12890-023-02611-4>
- Sakuramoto, H., Nakamura, K., Ouchi, A., Okamoto, S., Watanabe, S., Liu, K., ... Kotani, T.** (2023). Current Practice and Barriers to the Implementation of Mobilization in ICUs in Japan: A Multicenter Prospective Cohort Study. *Journal of Clinical Medicine*, 12(12), 3955. <https://doi.org/10.3390/jcm12123955>
- Sato, K., Heinsar, S., Obonyo, N., Wildi, K., Liu, K., Farah, S., ... Fraser, J.** (2023). A Novel Speckle-Tracking Echocardiographic Parameter Assessing Left Ventricular Loading During VA ECMO in a Pre-clinical Model of Cardiogenic Shock. *Heart, Lung and Circulation*, 32, S406. <https://doi.org/10.1016/j.hlc.2023.06.562>
- Sato, K., Heinsar, S., Wildi, K., Obonyo, N., Liu, K., Farah, S., ... Fraser, J.** (2023). A Novel Speckle-Tracking Echocardiographic Parameter Considering Left Ventricular Loading Condition In Cardiogenic Shock During Va ECMO. *Journal of the American College of Cardiology*, 81(8), 1396. [https://doi.org/10.1016/S0735-1097\(23\)01840-5](https://doi.org/10.1016/S0735-1097(23)01840-5)
- Savage, M., Hay, K., Vollbon, W., Doan, T., Murdoch, D., Hammett, C., ... Raffel, O.** (2023). Prehospital Activation of the Cardiac Catheterization Laboratory in ST-Segment–Elevation Myocardial Infarction for Primary Percutaneous Coronary Intervention. *Journal of the American Heart Association*, 12(14). <https://doi.org/10.1161/JAHA.122.029346>
- Scarff, S., Nalder, E., Gullo, H., & Fleming, J.** (2023). The Multiple Errands Test: A Guide for Site-Specific Version Development. *Canadian Journal of Occupational Therapy*, 90(3), 280–296. <https://doi.org/10.1177/00084174221142184>
- See Hoe, L., Li Bassi, G., Wildi, K., Passmore, M., Bouquet, M., Sato, K., ... Fraser, J.** (2023). Donor heart ischemic time can be extended beyond 9 hours using hypothermic machine perfusion in sheep. *The Journal of Heart and Lung Transplantation*, 42(8), 1015–1029. <https://doi.org/10.1016/j.healun.2023.03.020>
- Shajib, M., Futrega, K., Davies, A., Franco, R., McKenna, E., Guillester, B., ... Doran, M.** (2023). A tumour-spheroid manufacturing and cryopreservation process that yields a highly reproducible product ready for direct use in drug screening assays. *Journal of The Royal Society Interface*, 20(207). <https://doi.org/10.1098/rsif.2023.0468>
- Shajib, M., Futrega, K., Franco, R., McKenna, E., Guillester, B., Klein, T., Crawford, R., & Doran, M.** (2023). Method for manufacture and cryopreservation of cartilage microtissues. *Journal of Tissue Engineering*, 14. <https://doi.org/10.1177/20417314231176901>
- Sharma, V., Doig, F., Maxwell, R., Grout, D., Saeed, U., & Wall, D.** (2023). Anomalous Right Coronary Artery Originating From the Pulmonary Artery (ARCAPA): A Rare Presentation in the Fifth Decade. *World Journal for Pediatric and Congenital Heart Surgery*, 14(2), 241–243. <https://doi.org/10.1177/21501351221141437>
- Sharma, V., Simpson, F., Hwang, J., & Thomson, B.** (2023). Cardiac Autotransplantation and Commando Operation for Complex Multivalvular Infective Endocarditis. *The Annals of Thoracic Surgery*, 115(6), e127–e129. <https://doi.org/10.1016/j.athoracsur.2022.06.010>
- Shojaei, M., Shamshirian, A., Monkman, J., Grice, L., Tran, M., Tan, C., ... Tang, B.** (2023). IFI27 transcription is an early predictor for COVID-19 outcomes, a multi-cohort observational study. *Frontiers in Immunology*, 13. <https://doi.org/10.3389/fimmu.2022.1060438>
- Shou, B., Ong, C., Premraj, L., Brown, P., Tonna, J., Dalton, H., ... Cho, S.** (2023). Arterial oxygen and carbon dioxide tension and acute brain injury in extracorporeal cardiopulmonary resuscitation patients: Analysis of the extracorporeal life support organization registry. *The Journal of Heart and Lung Transplantation*, 42(4), 503–511. <https://doi.org/10.1016/j.healun.2022.10.019>
- Solomon, J., Danoff, S., Woodhead, F., Hurwitz, S., Maurer, R., Glaspole, I., ... TRAIL1 Network Investigators.** (2023). Safety, tolerability, and efficacy of pirfenidone in patients with rheumatoid arthritis-associated interstitial lung disease: a randomised, double-blind, placebo-controlled, phase 2 study. *The Lancet Respiratory Medicine*, 11(1), 87–96. [https://doi.org/10.1016/S2213-2600\(22\)00260-0](https://doi.org/10.1016/S2213-2600(22)00260-0)
- Song, W., Tang, F., Marshall, H., Fong, K., & Liu, F.** (2023). An Improved Anchor-Free Nodule Detection System Using Feature Pyramid Network. *2023 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, 1–4. <https://doi.org/10.1109/EMBC40787.2023.10340341>
- Spooner, L., & Jordan, F.** (2023). An Unusual Case of Hair Tourniquet: A Case Report. *The Journal for Nurse Practitioners*, 19(9), 104733. <https://doi.org/10.1016/j.nurpra.2023.104733>
- Stephens, E., Guayco Sigcha, J., Lopez-Loo, K., Yang, I., Marshall, H., & Fong, K.** (2023). Biomarkers of lung cancer for screening and in never-smokers—a narrative review. *Translational Lung Cancer Research*, 12(10), 2129–2145. <https://doi.org/10.21037/tlcr-23-291>

- Stephens, E., Marshall, H., Chin, V., & Fong, K.** (2023). Air pollution and lung cancer—A new era. *Respirology*, 28(4), 313–315. <https://doi.org/10.1111/resp.14464>
- Stone, E., Dodd, R., Marshall, H., Bonevski, B., & Rankin, N.** (2023). Lung cancer screening: the hidden public health emergency. *Public Health Research & Practice*, 33(1). <https://doi.org/10.17061/phrp3312302>
- Sun, P., Fanning, J., Peeler, A., Shou, B., Lindsley, J., Caturegli, G., ... Cho, S.** (2023). Characteristics of delirium and its association with sedation and in-hospital mortality in patients with COVID-19 on veno-venous extracorporeal membrane oxygenation. *Frontiers in Medicine*, 10. <https://doi.org/10.3389/fmed.2023.1172063>
- Sutt, A., & Fraser, J.** (2023). Early versus late tracheostomy: what do patients want? *Critical Care*, 27(1), 151. <https://doi.org/10.1186/s13054-023-04443-4>
- Symon, B., Gourlay, K., Bauer, L., & Hufton, D.** (2023). A simple massive haemorrhage protocol simulation using two dialysis bags. *International Journal of Healthcare Simulation*. <https://doi.org/10.54531/cfnv4389>
- Tan, C., Zannino, D., Clendenning, C., Offen, S., Gentles, T. L., Ayer, J., ... Cordina, R.** (2023). Ventricular Arrhythmia in the Fontan Circulation: Prevalence, Risk Factors and Clinical Implications. *Congenital Heart Disease*, 18(5), 507–523. <https://doi.org/10.32604/chd.2023.028829>
- Tan, H., Aplin, T., Gullo, H., & McAuliffe, T.** (2023). Training and learning support to use smartphones and apps for people with vision impairment (PVI): A multi-site qualitative study on trainers' perspectives from Australia, Canada, and Singapore. *British Journal of Visual Impairment*. <https://doi.org/10.1177/02646196231183891>
- Taniguchi, H., Rätsep, I., Heinsar, S., Liu, K., Cespedes, M., Suen, J., ... Peek, G.** (2023). Iliopsoas haematoma during extracorporeal membrane oxygenation: A registry report from the COVID-19 critical care consortium across 30 countries. *Perfusion*, 026765912311682. <https://doi.org/10.1177/02676591231168285>
- Tran, A., Rochweg, B., Fan, E., Belohlavek, J., Suverein, M., Poll, M., ... Fernando, S.** (2023). Prognostic factors associated with favourable functional outcome among adult patients requiring extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest: A systematic review and meta-analysis. *Resuscitation*, 193, 110004. <https://doi.org/10.1016/j.resuscitation.2023.110004>
- Tronstad, O., Flaws, D., Patterson, S., Holdsworth, R., & Fraser, J.** (2023). Creating the ICU of the future: patient-centred design to optimise recovery. *Critical Care*, 27(1), 402. <https://doi.org/10.1186/s13054-023-04685-2>
- Tronstad, O., Flaws, D., Patterson, S., Holdsworth, R., Garcia-Hansen, V., Rodriguez ... Fraser, J.** (2023). Evaluation of the sensory environment in a large tertiary ICU. *Critical Care*, 27(1), 461. <https://doi.org/10.1186/s13054-023-04744-8>
- Tronstad, O., Patterson, S., Sutt, A., Pearse, I., Hay, K., Liu, K., ... Flaws, D.** (2023). A protocol of an international validation study to assess the clinical accuracy of the eDIS-ICU delirium screening tool. *Australian Critical Care*, 36(6), 1043–1049. <https://doi.org/10.1016/j.aucc.2023.02.003>
- Uluer, A., MacGregor, G., Azevedo, P., Indihar, V., Keating, C., Mall, M., ... Wilson, J.** (2023). Safety and efficacy of vanzacaftor–tezacaftor–deutivacaftor in adults with cystic fibrosis: randomised, double-blind, controlled, phase 2 trials. *The Lancet Respiratory Medicine*, 11(6), 550–562. [https://doi.org/10.1016/S2213-2600\(22\)00504-5](https://doi.org/10.1016/S2213-2600(22)00504-5)
- Unoki, T., Hayashida, K., Kawai, Y., Taito, S., Ando, M., Iida, Y., ... Nishida, O.** (2023). Japanese Clinical Practice Guidelines for Rehabilitation in Critically Ill Patients 2023 (J-ReCIP 2023). *Journal of Intensive Care*, 11(1), 47. <https://doi.org/10.1186/s40560-023-00697-w>
- Usman, A., Cevasco, M., Maybauer, M., Spelde, A., Oliba, S., Bermudez, C., ... Gutsche, J.** (2023). Oxygenated right ventricular assist device as part of veno-venopulmonary extracorporeal membrane oxygenation to support the right ventricle and pulmonary vasculature. *Journal of Cardiothoracic Surgery*, 18(1), 134. <https://doi.org/10.1186/s13019-023-02264-8>
- van Zandwijk, N., Marshall, H., & Fong, K.** (2023). Lung cancer: Removing toxic dust from our environment. *Respirology*, 28(6), 511–512. <https://doi.org/10.1111/resp.14512>
- Vaneckova, P., Wade, S., Caruana, M., Ngo, P., Behar Harpaz, S., Sarich, P., ... Weber, M.** (2023). A protocol for modelled evaluations to maximise the long-term health and economic gains of lung cancer interventions in Australia: The Lung cancer Evaluation And Policy program (LEAPp). *Annals of Cancer Epidemiology*, 7, 1–1. <https://doi.org/10.21037/ace-22-11>
- Wakale, S., Wu, X., Sonar, Y., Sun, A., Fan, X., Crawford, R., & Prasad, I.** (2023). How are Aging and Osteoarthritis Related? *Aging and Disease*, 14(3), 592. <https://doi.org/10.14336/AD.2022.0831>
- Wallace, S., McGowan, S., & Sutt, A.** (2023). Benefits and options for voice restoration in mechanically ventilated intensive care unit patients with a tracheostomy. *Journal of the Intensive Care Society*, 24(1), 104–111. <https://doi.org/10.1177/17511437221113162>
- Walweel, K., Cheesman, E., & Molenaar, P.** (2023). Potential of β 2AR for added benefit in treating heart failure through a better understanding of signaling. *Current Opinion in Physiology*, 36, 100719. <https://doi.org/10.1016/j.cophys.2023.100719>
- Watanabe, S., Liu, K., Kozu, R., Yasumura, D., Yamauchi, K., Katsukawa, H., ... Morita, Y.** (2023). Association Between Mobilization Level And Activity of Daily Living Independence in Critically Ill Patients. *Annals of Rehabilitation Medicine*, 47(6), 519–527. <https://doi.org/10.5535/arm.23056>
- West, A., Chaudhuri, N., Barczyk, A., Wilsher, M. L., Hopkins, P., Glaspole, I., ... Montgomery, A. B.** (2023). Inhaled pirfenidone solution (AP01) for IPF: a randomised, open-label, dose-response trial. *Thorax*, 78(9), 882–889. <https://doi.org/10.1136/thorax-2022-219391>
- White, N., Parsons, R., Collins, G., & Barnett, A.** (2023). Evidence of questionable research practices in clinical prediction models. *BMC Medicine*, 21(1), 339. <https://doi.org/10.1186/s12916-023-03048-6>

Publications continued...

- Wildi, K., Livingstone, S., Ainola, C., Colombo, S. M., Heinsar, S., Sato, N., ... Fraser, J.** (2023). Application of anti-inflammatory treatment in two different ovine Acute Respiratory Distress Syndrome injury models: a preclinical randomized intervention study. *Scientific Reports*, 13(1), 17986. <https://doi.org/10.1038/s41598-023-45081-8>
- Williams, G., Fulbrook, P., Alberto, L., Kleinpell, R., Christensen, M., Sitoula, K., & Kobuh, N.** (2023). Critical care nursing policy, practice, and research priorities: An international cross-sectional study. *Journal of Nursing Scholarship*, 55(5), 1044–1057. <https://doi.org/10.1111/jnu.12884>
- Wilsmore, B., & Haqqani, H.** (2023). Aligning Guidelines and Practice: The Monitoring of Cardiovascular Implantable Electronic Devices in Australia and New Zealand. *Heart, Lung and Circulation*, 32(9), 1029–1031. <https://doi.org/10.1016/j.hlc.2023.07.006>
- Wong, A., Sun, H., Cox, I., Fisher, J., Khalil, N., Johannson, K., ... Zhang, W.** (2023). Mapping EQ5D utilities from forced vital capacity and diffusing capacity in fibrotic interstitial lung disease. *PLOS ONE*, 18(3), e0283110. <https://doi.org/10.1371/journal.pone.0283110>
- Wootton, S., Dale, M., Alison, J., Brown, S., Rutherford, H., Chan, A., ... McKeough, Z.** (2023). Mobile Health Pulmonary Rehabilitation Compared to a Center-Based Program for Cost-Effectiveness and Effects on Exercise Capacity, Health Status, and Quality of Life in People With Chronic Obstructive Pulmonary Disease: A Protocol for a Randomized Controlled Trial. *Physical Therapy*, 103(7). <https://doi.org/10.1093/ptj/pzad044>
- Wu, E., Maw, M., Stephens, A., Stevens, M., Fraser, J., Tansley, G., Moscato, F., & Gregory, S.** (2023). Estimation of Left Ventricular Stroke Work for Rotary Left Ventricular Assist Devices. *ASAIO Journal*, 69(9), 817–826. <https://doi.org/10.1097/MAT.0000000000001972>
- Wu, X., Sun, A., Crawford, R., Xiao, Y., Wang, Y., Prasad, I., & Mao, X.** (2023). Inhibition of Leukotriene A4 Hydrolase Suppressed Cartilage Degradation and Synovial Inflammation in a Mouse Model of Experimental Osteoarthritis. *CARTILAGE*, 194760352311699. <https://doi.org/10.1177/19476035231169940>
- Yamazaki, J., Harrison, N., Marshall, H., Gartner, C., & Morphet, K.** (2023). Stigma-Reducing Interventions for Lung Cancer and Other Smoking-Related Respiratory Diseases: A Systematic Review. *Journal of Thoracic Oncology*, 18(11), S401. <https://doi.org/10.1016/j.jtho.2023.09.716>
- Yang, I., Ferry, O., Clarke, M., Sim, E., & Fong, K.** (2023). Inhaled corticosteroids versus placebo for stable chronic obstructive pulmonary disease. *Cochrane Database of Systematic Reviews*, 2023(3). <https://doi.org/10.1002/14651858.CD002991.pub4>
- Yasuda, M., Saito, A., Goto, T., Yamamoto, R., Liu, K., Kuriyama, A., Kondo, Y., & Kasugai, D.** (2023). Challenges hindering emergency physicians: involvement in multicenter collaborative studies in Japan: A nationwide survey analysis. *Acute Medicine & Surgery*, 10(1). <https://doi.org/10.1002/ams2.906>
- Yu, R., Miura, K., Chambers, D., Hopkins, P., Proby, C., Bibee, K., Plasmeijer, E., & Green, A.** (2023). Multimodal Transplant-clinic-based Skin Cancer Prevention Education for Organ Transplant Recipients: Feasibility Study. *Transplantation Direct*, 9(7), e1492. <https://doi.org/10.1097/TXD.0000000000001492>
- Zaaqoq, A., Griffie, M., Kelly, T., Fanning, J., Heinsar, S., Suen, J., ... Cho, S.** (2023). Cerebrovascular Complications of COVID-19 on Venovenous Extracorporeal Membrane Oxygenation. *Critical Care Medicine*, 51(8), 1043–1053. <https://doi.org/10.1097/CCM.0000000000005861>
- Zaga, C., Freeman-Sanderson, A., Happ, M., Hoit, J., McGrath, B., Pandian, V., ... Vogel, A.** (2023). Defining effective communication for critically ill patients with an artificial airway: An international multi-professional consensus. *Intensive and Critical Care Nursing*, 76, 103393. <https://doi.org/10.1016/j.iccn.2023.103393>
- Zhang, Y., Carter, H., Lazzarini, P., Cramb, S., Pacella, R., van Netten, J., ... McPhail, S.** (2023). Cost-effectiveness of guideline-based care provision for patients with diabetes-related foot ulcers: A modelled analysis using discrete event simulation. *Diabetic Medicine*, 40(1). <https://doi.org/10.1111/dme.14961>
- Zhao, A., Gudmundsson, E., Mogulkoc, N., van Moorsel, C., Corte, T., Vasudev, P., ... Jacob, J.** (2023). Mortality surrogates in combined pulmonary fibrosis and emphysema. *The European Respiratory Journal*. <https://doi.org/10.1183/13993003.00127-2023>
- Zheng, Q., Cox, I., de Graaff, B., Campbell, J., Corte, T., Glaspole, I., ... Palmer, A.** (2023). The relative contribution of co-morbidities to health-related quality of life of people with idiopathic pulmonary fibrosis using the Assessment of Quality of Life-8-Dimension multi-attribute utility instrument. *Quality of Life Research: An International Journal of Quality of Life Aspects of Treatment, Care and Rehabilitation*, 32(6), 1609–1619. <https://doi.org/10.1007/s11136-022-03331-8>
- Zheng, Q., Cox, I., Leigh, L., de Graaff, B., Johnston, F., Corte, T., ... Palmer, A.** (2023). Long-term exposure to low concentrations of air pollution and decline in lung function in people with idiopathic pulmonary fibrosis: Evidence from Australia. *Respirology (Carlton, Vic.)*, 28(10), 916–924. <https://doi.org/10.1111/resp.14552>





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