

Barwon Health

Research Report

2022-2023

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Message from the Clinical and Co-Director of Research

Welcome to the Barwon Health Research Report for 2022-2023.

2022 – 2023 HIGHLIGHTS

The Barwon Health research community has delivered many important achievements over the last 12 months. We have grown our annual publications from 515 to 665, a remarkable effort from our busy clinical teams.

We are participating in more than 190 clinical trials, many of which will be genuinely practise-changing, such as MATISSE, the first study in the world to show that vaccination of women against respiratory syncytial virus reduces the risk of severe bronchiolitis during infancy and CRISTAL, which has clarified the role of aspirin versus enoxaparin following hip or knee arthroplasty.

We have continued leading important NHMRC/MRFF-funded clinical trials, including BONE-ZONE, ARROW, TINA, CADET and CALM - each with the potential to significantly improve clinical care and patient outcomes.

Our surgical team has shown that outpatient management of uncomplicated diverticulitis with oral antibiotics is equally safe and efficacious as intravenous therapy.

Our allied health team have implemented an evaluation around the Strengthening Hospital Responses to Family Violence initiative, addressing an important gap in current knowledge and practice.

Our infectious diseases and public health teams have published important work on improving antibiotic stewardship in primary care and had a finalist in the Victorian Premier's Awards for Health and Medical Research. They have produced policy-informing evidence on measures to avoid infections with *mycobacterium ulcerans* and made important progress toward a program to disrupt the cycle by vaccinating possums.

We launched the Centre for Innovation in Infectious Disease and Immunology Research (CIIDIR) – a Barwon Health and Deakin University initiative which aims to unify our infectious disease, microbiome and immunology expertise and bring together a vibrant network of researchers to reduce the burden of infectious and immune-mediated disease in our community.



Professor Peter Vuillermin
Clinical Director of Research

Erica Grundell
Co-Director of Research



We have made world-first discoveries regarding the role of inflammation in perinatal depression and the gut microbiome in infant food allergy.

We developed and launched our first *Research Strategic Plan*, which sets an ambitious agenda for the coming 10 years.

We have established a Research Directorate and a coherent governance structure to enable the delivery of the plan.

With the support of the Adrian Costa Clinical Trials Centre and the implementation of a Research Quality Management and Risk System, our clinical trials teams and processes have ensured we are exceptionally well prepared for assessment against the National Clinical Trials Governance Framework.

We have developed the Clinician Scientist Pathway for commencement in 2024, an innovative program to support our people in completing a PhD closely integrated with their clinical role.

All this has been achieved with the collegiate, purposeful and determined input of the many who collectively strive to improve health outcomes by generating and translating new knowledge.

RESEARCH STRATEGIC PLAN

The Barwon Health Research Strategic Plan (RSP) was launched in December 2022. It sets out our vision that within ten years, Barwon Health will make outstanding contributions to research that have a measurable impact on the health of our community.

Key enablers to support delivery of the RSP include the robust governance and reporting mechanisms described above, support for a more enabling environment and research-active workforce, improved clinical trials capability and translation and support for strategic partnerships. Work commenced against these enablers in 2022 – 2023.

KEY PARTNERSHIPS

This year also saw the further development and strengthening of our well-established partnerships across Victoria, nationally and internationally.

Deakin University

The Barwon Health and Deakin University partnership provides a unique opportunity to build research programs that are locally relevant and internationally important. Since 2019, this has included over 100 research projects to support better health outcomes locally, regionally, nationally, and internationally.



As outlined throughout this report, this research contributes directly to enhanced social, cultural, economic and community outcomes across multiple domains including mental health, cancer services, maternal and child health, healthy ageing and population health.

In 2022, the Barwon – Deakin Partnership Oversight Group (POG) was established to set partnership strategic direction, objectives and priorities and oversee implementation of agreed initiatives. The POG is co-chaired by Barwon Health’s Chief Executive Frances Diver and Deakin Vice Chancellor Professor Iain Martin and meets biannually.

Western Alliance

Western Alliance is a collaboration of health services, universities and the Western Victoria Primary Health Network across western Victoria which supports its members to improve the health of their communities through research-based and evidence-informed health care. Barwon Health is proud to be a governing partner of Western Alliance. Our partnership with Western Alliance has provided benefits at an organisational level as well as for Barwon Health employees in terms of research funding, support and capability building, all of which have translated to improvements in care for the greater Barwon community.

Institutional Partners

Effective partnerships between public hospitals, research institutes and universities are vital in tackling the many health challenges facing the community. Barwon Health values our partnerships with organisations across Australia and internationally, and we wish to acknowledge the contribution of key partners, including:

- Burnet Institute
- Cancer Council Victoria
- Doherty Institute
- Florey Institute
- Latrobe University
- Monash University
- Murdoch Children’s Research Institute
- University of Melbourne
- Victorian Comprehensive Cancer Centre (VCCC) Alliance
- WEHI

Barwon South West Community

Barwon Health strongly encourages consumer involvement in research to ensure the research we conduct is responsive to the dynamic healthcare needs of our regional community, and is directly translated into improved outcomes.

This year our community answered the call as clinical trial participants, with approximately 1600 participants. Our community also contributed to the delivery and growth of research as consumer advisors, research project co-designers and focus group contributors. We thank each participant for their input and support.



Research Directorate

ADRIAN COSTA CLINICAL TRIALS CENTRE

The Adrian Costa Clinical Trials Centre (ACCTC) is now well established in a dedicated facility for trial coordinators, support staff, participants and their families at Level 2, 73 Little Ryrie St, Geelong. As the infrastructure for conducting and reporting clinical trials at Barwon Health, ACCTC represents a vital step towards our goal of embedding research excellence into every aspect of clinical care. ACCTC Clinical Trial Support Services include:

- Research operations and budget support
- Research safety, quality and compliance support
- Clinical Trial Research Support Service – Australian Teletrial Program (CTRSS-ATP)
- Access to consulting rooms and equipment

RESEARCH DEVELOPMENT UNIT

The RDU facilitates the conduct of high-quality research at Barwon Health by ensuring research projects receive robust ethical review and conform to relevant National and State regulations, legislation and research guidelines.

The RDU is co-located with the Adrian Costa Clinical Trials Centre at Level 2, 73 Little Ryrie Street, Geelong.

The RDU has extensive expertise in research ethics, governance and research management and:

- Provides support, advice and training to experienced and novice researchers on research design, data management and analysis, ethics applications and research dissemination
- Provides support for research oversight to regional partners and collaborators
- Coordinates all aspects of research oversight and compliance for research carried out under the auspices of Barwon Health
- Coordinates and convenes the Barwon Health Human Research Ethics Committee (HREC) and its associated sub-committee, the Research Review Committee and
- Reviews and manages insurance, indemnity and contract documentation associated with clinical trials and multi-site research projects.

SERVICE LEADS



Bree Sarah
ACCTC Operations Manager



Lisa Fry
RDU Manager



Dr Jason Hodge
Laboratory Research Manager



RESEARCH LABORATORY

The Research Laboratory located at the Health Education & Research Building (HERB) provides laboratory science management and clinical trial support to a range of research programs and departments within Barwon Health, as well as significant collaborations with co-located Deakin University research staff.

The team works to help with the translation of clinical needs into research investigations, while providing support for staff in research design, data analysis and research publications.

The Research Support Unit maintains the CIIDIR laboratory as well as contributing to the implementation of the Secure Health data and Biobank platform (SHeBa) and management of the Barwon Infant Study biobank and database. In addition, ongoing support is provided to various research teams within the Institute for Mental and Physical Health and Clinical Translation (IMPACT) including Epidemiology-Centre for Healthy Ageing (Geelong Osteoporosis Study), Food and Mood Centre, B-CORE and Conexus.

BIostatISTICS SUPPORT SERVICE

The Barwon Health Biostatistics Support Service provides statistical support for research undertaken within Barwon Health. A collaborative approach is taken with all projects and it is recommended that a statistician be consulted in the early stages of a research project to ensure the statistical integrity and validity of the study. Consultations are free of charge to all Barwon Health researchers.

RESEARCH DATA MANAGEMENT SERVICE

The Research Data Management Service is available to assist all Barwon Health staff who require expertise in data management tasks at all stages of their research. It is important that researchers consider their project's data management requirements at the beginning of the project, including data collection/generation, storage, access and resources.



Research Committees

RESEARCH MANAGEMENT COMMITTEE

The Barwon Health Research Management Committee (RMC) meets weekly and is responsible for providing efficient and rigorous governance oversight of research at Barwon Health. The RMC comprises the Chief Medical Officer, the Director and Co-Director of Research, Legal Counsel, the Adrian Costa Clinical Trial Centre Operations Manager, Manager RDU, Research Quality Manager and an RDU Research Governance Officer and/or HREC Officer.

RESEARCH OPERATIONS COMMITTEE

The Research Operations Committee (ROC) meets regularly to provide clinical trial and research operational and strategic advice to the Barwon Health Research Advisory Committee and build capacity to undertake high-quality research. The ROC comprises Clinical Trial Unit Managers, Research Unit Managers, Clinical Trial Pharmacist, Operations Manager ACCTC, Manager RDU, Research Governance Officer, RDU and Research Quality Manager.

RESEARCH ADVISORY COMMITTEE

As part of Research Strategic Plan implementation the Research Advisory Committee (RAC) will commence in July 2023. Research Leads from the following BH research programs will be represented on the RAC:

Aged Care	Infectious Diseases
Allied Health	Intensive Care
Anaesthetics	Medical Imaging
Cardiology	Mental Health/CHIME
Child Health Research Unit	Orthopaedics
Nursing	Paediatrics
Cancer Services	Pharmacy
Emergency Medicine	Public Health
Endocrinology	Palliative Care
General Surgery	Women's and Children's

Standing RAC invitees will be the Clinical Director of Research, Co-Director of Research, Manager RDU, Operations Manager Adrian Costa Clinical Trials Centre, BH Research Quality Manager, HERB Laboratory representative and Senior Scientist, Deakin University Waurn



Ponds Laboratory representative, nominees from Deakin University (IMPACT) and Western Alliance, a Trainee clinician scientist representative and a Consumer representative.

The RAC will be responsible for monitoring research programs within the Research Strategic Plan (RSP) and advising and making recommendations to the Clinical Director and Co-Director of Research. RAC Research Leads will provide annual reports on research within their area/program outlining their progress, 5-year plan and deliverables.

BARWON HEALTH HUMAN RESEARCH ETHICS COMMITTEE

The Barwon Health Human Research Ethics Committee (BH HREC), with the support of the Research Development Unit, is responsible for the ethical oversight and monitoring of research proposals involving human participants to ensure that they are ethically acceptable, and in accordance with relevant standards and guidelines.

HREC Membership

Chair: Dr Heather Wellington

Lynsey Blakston
Tracey Caulfield
Paul Dodemaide
Damien Elsworth
Renee Fiolet
Janine Fisher
Denise Jones
Olivia King
Lauren Mahoney
Ian McKenzie

Alison Mitchell
Cameron Osborne
Louise Scerri
Patrick Sheehan
Jessica Snir
Katherine Snowden
Chris Thompson
Darryl Towers
Megan Turner
Greg Weeks



Research Activity

RESEARCH PROJECTS

Figure 1: Projects by Research Type open or approved in 2022-2023

Research Project Type	Open or approved 22/23
Authorised Prescriber	3
Case Study	12
Clinical Research	141
Clinical Trial	165
Cohort Study	12
Laboratory/Basic Science	7
Nursing	1
Psychological	13
Public Health	34
Qualitative	24
Quality Assurance/Audit	202
Registry/Database	53
Social Science	24
Grand Total	691

Figure 2: Research Projects by Clinical Directorate open or approved in 2022 – 2023

Clinical Directorate	Open or approved 22/23
Aged Care	6
CNMO	2
Community Health, Rehabilitation & Palliative care	19
Deakin	17
Medicine, Specialist Medicine & Emergency Medicine	370
Mental Health, Drugs & Alcohol Services	39
Other	60
Public Health & Health Service Partnership	20
Research	5
Surgical & Critical care	125
Women's & Children's	28
Grand Total	691



Figure 3: New Research Projects by Risk Level approved in 2022 – 2023

Research Project Risk Level	New in 22/23
Greater than low risk	7
Low risk	31
Negligible risk	44
Quality assurance	2
Grand Total	84

RESEARCH PUBLICATIONS

Publications by Barwon Health affiliated authors:

- 2022 – 2023: 665
- 2021 – 2022: 515

INCOME FROM RESEARCH

Figure 4: Income from research in 2022 – 2023 by research type

2022 - 2023 Funding Income Sources

Total Income = \$6,678,309

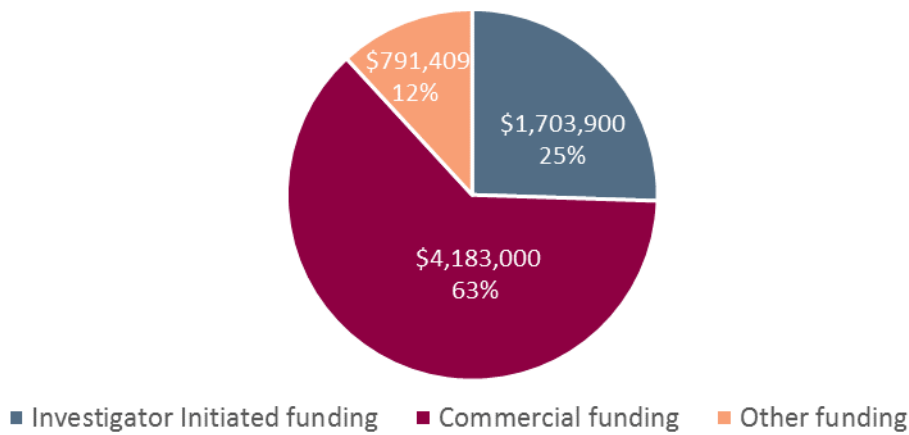


Figure 5: Income from Commercial research in 2022 – 2023 by Clinical Directorate

2022 - 2023 Commercial Funding Income by Directorate

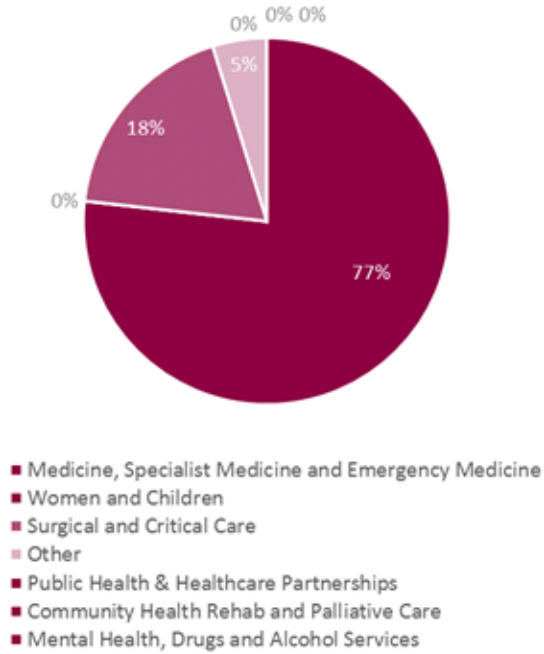
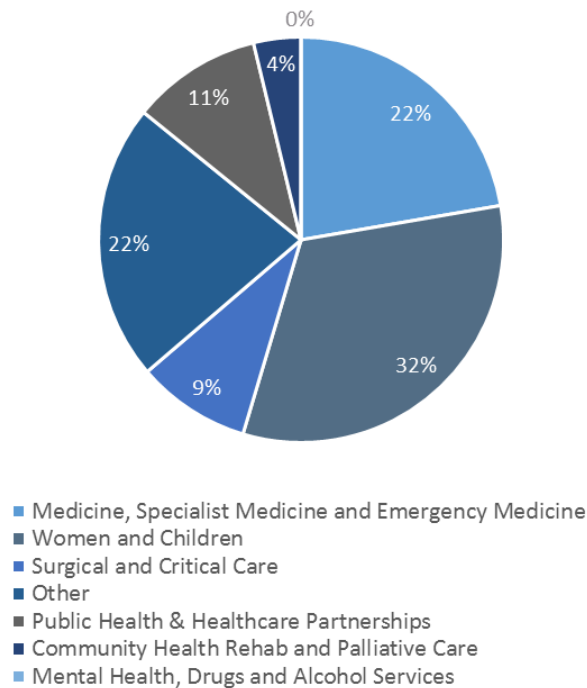


Figure 6: Income from Investigator Initiated research in 2022 – 2023 by Clinical Directorate

2022 - 2023 Investigator Initiated Funding Income by Directorate



Barwon Health Research Group News & Reports

Allied Health Research and Translation

OVERVIEW

Allied Health represents a diverse interprofessional group of clinicians who work across all settings at Barwon Health, within numerous programs, services and speciality clinics. Some of the allied health professions include physiotherapy, occupational therapy, speech pathology, dietetics, social work, podiatry, psychology, audiology, exercise physiology and spiritual care.

Across-the-board involvement facilitates allied health to undertake and implement research to improve service delivery and patient-centred care. To achieve this we are developing the capability and capacity of allied health clinicians to undertake research and enhance our potential for transformative projects, aligning with the Barwon Health Research Strategic Plan.

The Allied Health Research and Knowledge Translation lead has a conjoint appointment between Barwon Health and South West Healthcare. The role supports research capacity development within Allied Health, across the Barwon South West Region. The allied health research lead plays an important role in developing research capability, supporting project development and promoting research translation.

Many allied health clinicians are engaged in collaborative research teams and are integrated within research units such as B-CORE.

There are more than 60 allied health clinicians currently involved in research, in both primary lead and co-investigator roles. Some of the kinds of research projects allied health clinicians are currently involved in at Barwon Health include:

- Health services research (to provide insight into how health services, programs and clinicians can deliver care in the safest, most effective, efficient and consumer-centred way)
- Translation research (i.e. translating research into practice on a systems level and measuring translation outcomes)
- Clinical research

RESEARCH LEAD



Dr Denise Jones

Allied Health Research &
Knowledge Translation
Lead



An important feature of many Allied Health-led projects is that they involve interprofessional research teams. This has made for more seamless and direct translation of the knowledge generated, into evidence-informed changes in clinical practice.

KEY RESEARCH AREAS

- Allied Health Oncology Research
- Strengthening Health Services Response to Family Violence (SHRFV)
- HIPSTER: HIP fracture Supplemental Therapy to Enhance Recovery
- Healthcare gaps and barriers to service utilisation within Geelong refugee communities; a co-designed research and service improvement project
- Improving the provision of prescribed food, fluid and mealtime supervision requirements in
- Pain Management Unit (PMU)
- Implementing routine mental health screening for community-dwelling adults by allied health professionals
- Drug and Alcohol Services
- Clinical Education & Training

COLLABORATING ORGANISATIONS

- Alfred Health
- Australian Clinical Trials Education Centre (A-CTEC)
- Barwon South West Regional Integrated Cancer Service (BSWRICS)
- Bionics Institute
- Deakin University
- Federation University
- Grampians Health
- IMPACT
- Institute of Physical Activity and Nutrition (IPAN)
- La Trobe University
- Monash University
- South West Healthcare
- Victorian Comprehensive Cancer Centre (VCCC) Alliance
- Western Alliance
- Western Health



RESEARCH GRANTS

- Western Alliance - Translating research into practice: improving texture modification systems in Residential Aged Care Facilities (RACFs) in rural and regional Western Victoria: 2023
- Western Alliance - Improving the provision of prescribed food, fluid and mealtime supervision requirements in inpatient and aged care settings: 2022
- Western Alliance - Implementing a Risk Feeding Policy and Education Program for Multidisciplinary Clinicians Participating in Risk Feeding Practise at Barwon Health: 2021-2022
- Western Alliance - Making the call: Improving timely access to community health physiotherapy services: 2021-2022
- Cancer Council Victoria and Victorian Cancer Agency Management Scheme Competitive Grant - Allied Health Clinical Trials (Oncology): 2021
- Western Alliance Academic Health Science Centre Funding Support - Allied Health Clinical Trials (Oncology): 2021
- Allied Health also receives funding as part of externally led multisite studies through the National Health and Medical Research Council (NHMRC, HIPSTER study) and the Victorian Medical Research Acceleration Fund (VMRAF), awarded to the Bionics Institute for the EarGenie® study.



NEWS: HIPSTER Study at Barwon Health seeks to improve hip fracture recovery through physio

June 2023

Every year more than 22,000 Australians break their hip, with this number expected to grow to 60,000 by 2050.

Early movement and walking is key to enabling people to reduce their hospital and rehabilitation stays and return to day to day life, however historically the amount of physical activity performed by patients who have had a hip fracture whilst in hospital is low.



Barwon Health is proud to be taking part in the “HIPSTER: HIP fracture Supplemental Therapy to Enhance Recovery” randomised controlled trial. This research is a multi-site Australian trial funded by NHMRC that investigates the effects of a more intensive early physiotherapy program on the recovery of patients with hip fractures.

Rupert Sangster (pictured, right), physiotherapist, is the Principal Investigator at Barwon Health, supported by Peter Schoch (pictured, left) and Katelyn Bailey (Physiotherapists). The entire Barwon Health physiotherapy department plays a key role in delivering both usual care to all hip fracture patients, plus the additional physiotherapy sessions to the patients in the study. Long term follow up and data collection is also done by members of the physiotherapy team.

The team will track the progress of patients in terms of their total hospital length of stay (acute and rehabilitation), as well as physical mobility, health-related quality of life and falls at 6 weeks, 120 days and 12 months. Health care costs will also be assessed over a 12-month follow-up period.



Anaesthetics

OVERVIEW

Research is an essential part of healthcare development. The Anaesthetics Research Unit collaborates with local and global organisations to ensure patients receive the most appropriate care and have the best possible outcomes before, during and after surgery.

Our Unit is well regarded in leading and participating in clinical trials of new techniques, medicines and technologies to address some of the most common complications of surgery, from nausea and vomiting to chronic pain and cognitive dysfunction.

The Unit recruits patients into a number of ANZCA Clinical Trials Network multicentre public-good trials, helping seek definitive answers in the fields of anaesthesia, perioperative medicine and pain that are relevant to patients, practitioners and policymakers. Visit the ANZCA website for descriptions of trials and links to publications.

RESEARCH LEAD



Dr Melissa Formica
Research Fellow

KEY RESEARCH AREAS

- The POPCORN Study - examining the effect of lifestyle factors on post-operative cognitive decline
- The POCID Trial - assessing delivery methods for detecting iron deficiency
- The PANACEA Trial - preventing post-operative cognitive dysfunction
- The ROCKET Trial – reducing chronic post-surgical pain
- The NATO Study - effect of iron-deficiency on recovery in colorectal patients
- The DECS-II Trial – improving recovery after cardiac surgery
- The TRIGS Trial – improving recovery after gastrointestinal surgery
- The LOLIPOP Trial – Lidocaine infusions for breast cancer surgery Trial – anaesthetic depth and surgical outcomes

RESEARCH TEAM

Research staff

- Dr Andrew Marriott, Group Leader
- Dr Claire Furyk, Group Leader
- Dr Cameron Osborne, Group Leader
- Dr Nathan Fifer, Group Leader



- Dr Melissa Formica, Research Fellow
- Ms Rachel Fiddes, Research Nurse
- Ms Madeleine Newell, Research Nurse
- Ms Sara Aldred, Research Nurse
- Ms Kayla Edridge, Research Scientist

COLLABORATING ORGANISATIONS

- Alfred Health
- Austin Health
- CSIRO
- Deakin University
- Melbourne Health
- University of Melbourne



NEWS: Barwon Health contributes to trial of blood test to spare colon cancer patients from unnecessary chemotherapy

July 2022

Over 20 hospitals from across Australia were involved in a world first clinical trial to investigate a new blood test that could revolutionise how chemotherapy is used for colon cancer, by identifying the patients that need chemo and those that can be safely spared treatment.



Barwon Health Cancer Services Trials Unit (CSTU) are long term contributors to the trial, with Dr Madhu Singh as Site Investigator, and are now recruiting for the latest phase of the trial.

The goal of chemotherapy when given after colon cancer surgery is to eradicate micrometastases – cancer cells that have travelled through the bloodstream to deposit in another site. These deposits are undetectable during the initial stages, however will continue to grow if not treated with chemotherapy.

The novel blood test, co-developed by WEHI, can detect these micrometastases by picking up tumour-derived DNA in the bloodstream, enabling researchers to identify which patients should be offered chemotherapy based on whether micrometastases has been detected.

This blood test could be used to spare around 600 Australians from unnecessary chemo treatments each year. Additional studies are underway to investigate the value of tumour-derived DNA-informed treatment in other stages of colon cancer and other cancer types, including pancreas and ovarian cancer.

Barwon South West Region Integrated Cancer Services (BSWRICS)

OVERVIEW

Barwon South Western Regional Integrated Cancer Services (BSWRICS) is located at Barwon Health, and works in partnership with health services to promote coordinated planning, system integration and improvement of cancer services across their respective regions. BSWRICS is funded by the Department of Health and Human Services and our vision is to improve patient experiences and outcomes by connecting cancer care and driving best practice.

We manage the Evaluation of Cancer Outcomes Barwon South West Registry (ECOBSW Registry), a regional dataset on diagnosis, clinical pathways and outcomes for all patients with cancer attending a hospital within the Barwon South West Region. The registry supplies the evidence-based data for service redesign projects.

KEY RESEARCH AREAS

- Evaluation of cancer pathways

RESEARCH TEAM

BSWRICS

- Alison Patrick, Program Manager
- Leigh Matheson, Health Information Manager
- Melody Mitchell, Data Collection Officer
- Leesa Jenkins, Service Development Officer
- Nathalie Davis, Service Development Officer
- Warren Flatt, Service Development Officer

Clinical Support Team

- A/Professor Philip Campbell, Director Andrew Love Cancer Centre
- Dr Graham Pitson, Director Radiotherapy, Andrew Love Cancer Centre
- A/Professor Ian Collins, St John of God Health Care Warrnambool
- Dr Cheng Hon Yap
- Dr Madhu Singh

RESEARCH LEADS



Alison Patrick
Program Manager



Leigh Matheson
Health Information Manager



Collaborating Organisations

- Australian Department of Health
- Cancer Council Victoria
- Colac Area Health
- Dept of Health Victoria
- Epworth Geelong
- Icon Geelong
- Icon Group Warrnambool
- Portland District Hospital
- South West Healthcare
- St John of God Health Care
- Western District Health Service



Cancer Services Trials Unit (CSTU)

OVERVIEW

Cancer Services at Barwon Health has a long and distinguished history conducting clinical research through a dedicated clinical trials unit established in 1997 at the Andrew Love Cancer Centre – the Cancer Services Trials Unit (previously known as the Haematology and Oncology Trials Team (HOTT)).

The unit conducts cooperative, investigator-initiated and sponsored phase 1b-III/IV studies across a wide range of haematological malignancies and solid tumours. Trials are selected by investigators according to scientific and ethical merit as well as clinical need, enabling local patients to access novel therapies in the first-line treatment setting or beyond second-line when patients are less likely to have readily available and accessible standard of care treatment options.

Our clinical trial portfolio has grown significantly in recent years and our aim is to provide patients with increasing access to clinical trials in line with the state government's Victorian Cancer Plan. The CSTU is currently involved in 63 active trials featuring 550 patients, with 30 more now open for recruitment and 13 to commence soon. These trials span a range of cancer types including lymphoma, leukaemia, myeloma, breast, melanoma, lung, prostate, and urology.

Our research activity benefits our regional patients, minimising their requirement to travel to larger metropolitan centres to access the latest novel therapies.

KEY RESEARCH AREAS

- Medical Oncology clinical trials in breast cancer, gastrointestinal cancers, genitourinary cancers, head and neck cancer, lung cancer, melanoma, rare cancers
- Haematology clinical trials in leukaemia, lymphoma and multiple myeloma
- Clinical registries in Medical Oncology and Haematology

RESEARCH LEADS



A/Professor Philip Campbell
Director of Cancer Services
and Head of Haematology



Dr David Campbell
Head of Medical Oncology



Dr Chiara Bortolasci
Clinical Trials Manager



- Support workforce training in clinical trials via the VCCC Alliance SKILLED Clinical Trial Internship Program

RESEARCH TEAM

Director

A/Professor Philip Campbell – Director of Cancer Services/Head of Haematology

Haematology Investigators

- A/Professor Philip Campbell, Director of Cancer Services/Head of Haematology
- Dr Georgina Hodges
- Dr Shreerang Sirdesai
- Dr Sumita Ratnasingham,
- Dr Hannah Rose

Medical Oncology Investigators

- Dr David Campbell, Head of Medical Oncology
- Dr Patricia Banks
- Dr Anna Lomax
- Dr Caitlin Murphy
- Dr Inger Olesen
- Dr Madhu Singh
- Dr Karen White
- Dr Shu Fen Wong

Radiation Oncology Investigators

- Dr Michael Francis
- Dr Andrew Hui

Haematology & Oncology Trials Team

- Dr Chiara Bortolasci, Clinical Trials Manager
- Sonja Gauci, Clinical Trial Team Leader
- Katrina Golden, Clinical Trial Team Leader

- Scott Betteridge, Clinical Trial Coordinator
- Roxanne Alexander, Clinical Trial Coordinator
- Lisa McGrenaghan, Clinical Trial Coordinator
- Mandy McPhee, Clinical Trial Coordinator
- Taylor Gardner, Clinical Trial Coordinator
- Bianca Sawyer, Clinical Trial Coordinator
- Chloe Ristevski, Clinical Trial Coordinator
- Adele Stronach, Clinical Trial Coordinator
- Emily Knights, Clinical Trial Coordinator
- Peta Pocock, Clinical Trial Coordinator
- Jacqui Hopwood, Administrative Assistant
- Jodie Toohey, Administrative Assistant
- Katherine Snowden, Clinical Trial Pharmacist

SKILLED Intern

- Justin Dennis



COLLABORATING ORGANISATIONS

- ANZ Gynaecological Oncology Group (ANZGOG)
- ANZ Urogenital and Prostate Cancer Trials Group (ANZUP)
- Australasian Gastro-Intestinal Trials Group (AGITG)
- Australasian Leukaemia & Lymphoma Group (ALLG)
- Australian Lung Cancer Trials Group (ALTG)
- Breast Cancer Trials (BCT)
- Cancer Council Victoria (CCV)
- Cancer Trials Australia (CTA)
- Clinical Oncology Society of Australia (COSA)
- Medical Oncology Group of Australia (MOGA)
- Monash University School of Public Health and Preventive Medicine
- National Health and Medical Research Council (NHMRC)
- The Trans Tasman Radiation Oncology Group (TROG)
- Victorian Comprehensive Cancer Centre (VCCC)

RESEARCH GRANTS

- Commonwealth of Australia (Commonwealth) as represented by the Department of Health (DH) - ReViTALISE Project: Bridging the metro-regional trials gap by 2025: 2021-2026
- Victorian Cancer Agency (VCA) - Improving Rural Health Outcomes through the Regional Trials Network-Victoria: 2021-2023



NEWS: Barwon Health CSTU sees reduction in cancer return after new adjuvant therapy

September 2022

Barwon Health Cancer Services Trials Unit (CSTU) have taken part in a successful clinical trial of an immunotherapy agent (Opdivo) that saw a significant reduction in the return of melanoma after its surgical removal.



Stage II melanoma is a skin cancer that extends beyond the very outer layer of skin into the thicker layer of the skin, but has not spread to other parts of the body. These melanomas are treated by surgical removal, however in some cases microscopic cancer cells remain in the body after the surgery, causing a higher risk of the melanoma returning.

To try and reduce this risk, adjuvant (additional) therapies are given to patients after surgery to stimulate the body's immune system to fight any remaining cancer cells.

Dr Anna Lomax (pictured) and the CSTU team were key investigators in the global phase 3 trial of adjuvant Opdivo, developed by Bristol Myers Squibb. The trial found that Opdivo as an adjuvant therapy in patients with completely removed stage IIB/C melanoma demonstrated a statistically significant and clinically meaningful benefit in recurrence-free survival.

"Helping to prevent cancer recurrence is vital. Our aim is to provide opportunities to access therapies in the clinical trial setting at Barwon Health that may benefit our patients. We sincerely thank our participants in the study," said Dr Lomax.

The Barwon Health CSTU is currently involved in 40 active trials featuring 150 patients, with over 20 more now open for recruitment and more to commence soon. These trials span a range of cancer types including lymphoma, leukaemia, myeloma, breast, melanoma, lung, prostate, and urology.



Cardiology

OVERVIEW

Since its establishment in June 2000 under the direction of Associate Professor John Amerena, the Geelong Cardiology Research Unit (CRU) has participated in numerous large scale global clinical trials in cardiovascular disease, and is recognised both nationally and internationally for conducting high quality clinical research and exceeding expected recruitment goals.

The CRU has been involved in approximately 200 pharmaceutical trials over the past 23 years. Up to 200 patients per year in the Geelong greater region are enrolled within our clinical trials at any one time. Their involvement provides local patients with the opportunity to gain access to medications that are not on the market as well as additional clinical monitoring and health care. The CRU has had a number of participants who have gone from study to study over the 23 year period due to their positive experience.

In addition, the CRU is an active member of the Melbourne Interventional Group (MIG) Registry.

The CRU has been involved in the development of a number of new therapies, treatment options and interventional procedures, which have now become standard of care for patients with cardiovascular disease.

Associate Professor Amerena frequently performs the role of Australian National Coordinator for global clinical trials in cardiovascular disease, and holds positions on International Steering Committees/Endpoint committees overseeing the conduct of various clinical trials.

Karen Fogarty, CRU manager, performs the role of the National Study Coordinator for Australia on a number of studies and also sits on a global expert panel.

RESEARCH LEADS



A/Professor John Amerena
Director of Cardiology



Karen Fogarty
Research Manager



KEY RESEARCH AREAS

The Cardiology Research Unit specialises in investigations into the following therapeutic areas:

- Heart failure
- Heart attack and unstable angina
- High cholesterol
- Atrial fibrillation/ Atrial flutter
- Peripheral Vascular Disease
- Type 2 Diabetes
- High blood pressure
- Heart Failure
- Obesity

RESEARCH TEAM

- Associate Professor John Amerena, Director of Cardiology Research
- Dr William Hughes, Research Fellow
- Karen Fogarty, Research Manager
- Donna Soraghan, Study Coordinator
- Kate Sanders, Study Coordinator
- Krystle Wilson, Study Coordinator
- Kayla Eldridge, Study Coordinator
- Cameron McHeyzer, Clinical Trial Assistant Intern

COLLABORATING ORGANISATIONS

- Deakin University
- Monash University
- Melbourne Interventional Group Registry



Centre for Quality and Patient Safety Research

OVERVIEW

The Centre for Quality and Patient Safety Research-Barwon Health Partnership was established in 2007 and is uniquely positioned to tackle some of the most salient and complex challenges related to quality and patient safety issues in healthcare. Our focus areas are:

- Patient experience,
- Patient safety
- The health workforce

Our researchers have expertise in evaluation, developing and implementing clinical guidelines and generating knowledge.

KEY RESEARCH AREAS

Workforce projects include:

- Nurturing Registered Undergraduate Students of Nursing and Midwifery to Optimise Their Experience in Practice Settings
- Exploring the experiences and career trajectory of Registered Undergraduate Students of Nursing and Midwifery
- Improving workforce capability and capacity in communicating with people living with dementia (PLWD) using an artificially intelligent (AI) avatar, "Talk with Ted"

Aged care patient experience projects include:

- Virtual reality experiences for residential aged care residents with mild dementia

RESEARCH TEAM

- Alfred Deakin Professor Alison Hutchinson, Chair in Nursing
- Dr Susan Perlen, Research Fellow
- Mr James Meroiti, Research Assistant
- Dr Renee Fiolet, Post Doctoral Research Fellow in Knowledge Translation
- Dr Vanessa Watkins, Research Fellow

COLLABORATING ORGANISATIONS

- Deakin University
- Dementia Australia
- National Ageing Research Institute
- SilVR Adventures

RESEARCH LEAD



Alfred Deakin Professor
Alison Hutchinson
Chair in Nursing



Child Health Research Unit at Barwon Health (CHeRUB)

OVERVIEW

It is well recognised that most non-communicable diseases such as diabetes, obesity, cardiovascular disease, cancer, allergy, asthma, autism, ADHD, anxiety and depression have their origins in pregnancy and early childhood - a period described as 'the crucial first 1,000 days of life'.

At the Child Health Research Unit at Barwon Health (CHeRUB) we study the origins of disease in the first 1,000 days and design strategies to provide our children with a healthy start. Our research brings together community effort and some of our best research minds- combining people-power with cutting-edge science. CHeRUB is leading paediatric research in Australia, if not the world.

RESEARCH LEAD



Professor Peter Vuillermin
Director

KEY RESEARCH AREAS

- The Barwon Infant Study (BIS)
- The Environmental Determinants of Islet Autoimmunity (ENDIA) Study
- Assessing the Reduction of Recurrent admissions using OM-85 for the treatment of preschool Wheeze (ARROW)
- Pregnancy Research and Translation Ecosystem (PRT-E).

RESEARCH TEAM

Research staff

- Professor Peter Vuillermin, Director
- Nicola Cooley, Executive Assistant
- Nakita Clements, Project Coordinator
- Dr Martin O'Hely, Bioinformatician
- Dr Luba Sominsky, Paediatric Research Fellow
- Dr Yuan Gao, Research Fellow, Epidemiology
- Mikayla Hoffman, BIS Operations co-manager
- Carlie Butterworth, Research Assistant
- Jasmin Foster, BIS Operations co-manager
- Jacinta MaMahon, Research Assistant
- Aneeshya Nidhin, Research Assistant



- Thao Tran, Laboratory Assistant
- Callum Hollis, Research Officer
- Malia Lardelli, Research Assistant
- Todd Wallace, Research Assistant
- Jordan Levinter, Research Assistant

Research Students

- Viet Nguyen, PhD
- Chloe Love, PhD
- Jess Costa-Pinto, PhD
- Rachel Morgan, PhD

COLLABORATING ORGANISATIONS

- Agency for Science, Technology and Research (A*STAR)
- Australian National Phenomes Centre
- Baker Heart and Diabetes Institute
- Beijing Genomics Institute
- Children's Inpatient research collaboration of Australia and New Zealand
- Deakin University
- Griffith University
- Mater Research Institute
- Max Planck Institute for Psycholinguistics
- Murdoch Children's Research Institute
- Technical University of Denmark
- The Florey Institute of Neuroscience and Mental Health
- The University of Melbourne
- The University of Queensland
- The University of Sydney
- University of Auckland
- University of Copenhagen
- Walter and Eliza Hall Institute of Medical Research

RESEARCH GRANTS

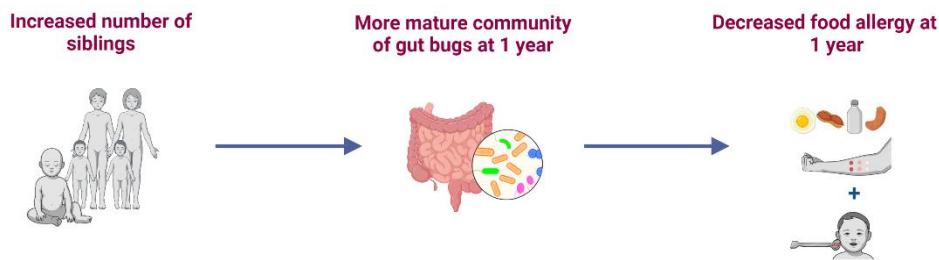
- NHMRC - Prevention of wheeze-associated hospitalisation in preschoolers with the immunomodulator OM85: a multi-centre, randomised, double-blind, placebo-controlled trial: 2021-2025
- NHMRC - A longitudinal population-based study of the development of Cardiovascular risk in early childhood: 2019-2024
- Western Alliance - Pregnancy Research Translation Ecosystem: 2021-2022



NEWS: Sisters, brothers and bugs: how siblings protect babies from allergies

June 2023

Researchers from Barwon Health, Deakin University and Murdoch Children's Research Institute have found a big piece of the food allergy puzzle. Findings from the Barwon Infant Study, published in the *Journal of Allergy and Clinical Immunology*, report strong evidence that older siblings speed up the rate at which babies develop their gut microbiome and that this protects them from allergic disease.



Around one in every 10 Australian babies develops food allergies, which is the highest rate in the world. For over three decades, researchers have known that having more siblings is protective against allergic diseases and asthma, but the underlying mechanism has remained a mystery.

Researcher Yuan Gao completed the research as part of her PhD studies at Deakin University and said the results were striking. "Babies with older siblings had a much more mature gut microbiome by 1 year of age," she said. The really exciting part was that we were able to show that a more mature gut microbiome played a major role in the protective effect of siblings on the baby's risk of food allergy."

Professor Vuillermin said the Barwon Infant Study had been an exercise in "people power meets cutting-edge science. The participating families have been incredibly generous with their time, and a team of researchers from around Australia and internationally have worked for over a decade to produce more than 70 peer-reviewed scientific papers," he said. "The next challenge is to develop and test preventions and treatments targeting this pathway. There is good evidence that exposure to environmental bacteria drives the development of a healthy immune system."



Change to Improve Mental Health (CHIME) Translational Research Partnership

OVERVIEW

CHIME is a collaboration between Barwon Health and Deakin University focussed on reimagining and transforming regional mental healthcare.

CHIME's vision is to support delivery of improved mental health and wellbeing outcomes and experiences, support system transformation and drive continuous improvement in treatment, care and support for people experiencing mental illness and psychological distress.

A reimagined mental healthcare system requires putting lived experience voices at the centre of everything we do.

This means engaging people with lived experience to work in true and meaningful partnership with clinicians, researchers and policymakers in the design, delivery and evaluation of treatments and services, supported by an enhanced evidence-base and continuous learning. This is what CHIME calls a 'Listening and Learning Mental Healthcare System'.

CHIME aims to generate an evidence base for better care and create a dynamic ecosystem in which novel treatments and services can be designed, trialled and evaluated. CHIME will leverage the unique characteristics of the Barwon region, working in trusted partnership with primary care and other services, to investigate, model and translate mental health research to continuously improve mental healthcare for regional communities.

CHIME aims to achieve:

- Better patient care and consumer, family and carer experience
- A more resilient and accessible mental health system
- Improved community well-being
- A culture of continuous improvement where staff feel valued and effective

RESEARCH LEADS



Ms Renae Carolin
Director, CHIME



Professor Peter Haddad
Academic and Clinical
Director, CHIME



RESEARCH TEAM

CHIME Directors

- Ms Renae Carolin, Director, CHIME
- Professor Peter Haddad, Academic and Clinical Director, CHIME

CHIME Champions

- Professor Steve Moylan, Clinical Director, Mental Health, Drugs and Alcohol Services Barwon Health and Clinical Professor with Deakin University School of Medicine
- Alfred Deakin Professor Anna Peeters, Professor of Epidemiology and Equity in Public Health and Director of the Institute for Health Transformation, Deakin University
- Mr Tony McManus, Development Manager for the Geelong Community Foundation
- Alfred Deakin Professor Michael Berk, Alfred Deakin Chair of Psychiatry, Deakin University and Barwon Health and Director of IMPACT
- Alfred Deakin Professor Rachel Huxley, Executive Dean, Faculty of Health, Deakin University
- Alfred Deakin Professor Alison Hutchinson, Chair in Nursing, Barwon Health

CHIME Researchers

- Dr James McLure, Barwon Health Senior Peer Support Worker and Lived Experience Engagement and Research Fellow
- Dr Tari Forrester Bowling, Research Fellow, School of Health and Social Development
- Ms Stephanie Bennetts, PhD Candidate

CHIME Expert Advisory Group

- Professor Steve Moylan (Chair)
- Alfred Deakin Professor Anna Peeters
- Alfred Deakin Professor Michael Berk
- Dr Harry Hill
- Professor David Ashbridge
- Dr Jo Flynn
- Professor Andy Nierenberg
- Professor Grant McArthur
- Ms Eileen McDonald

RESEARCH GRANTS

- Western Alliance - A Listening and Learning Healthcare System approach to improve outcomes for acute-care mental health consumers in the Barwon-Southwest Victoria Region.: 2021-2023
- MRFF - Evaluating the effectiveness of lifestyle therapy versus standard psychotherapy for reducing depression in adults with COVID-19 related distress: The CALM trial : 2020-2022



- Barwon Health - Incorporation of evidence-based restorative biophilic design elements in to Central MHAOD Community Hub: 2021-2023
- Joint BHDU Scholarship - Partnering with community to co-create mental healthcare practice reform regarding current restrictive practices in Barwon Health's Mental Health, Drugs and Alcohol Services (MHDAS): 2021-2025
- Deakin Community Bank - Yoga as an Adjunct Therapy for the Treatment of Eating Disorders: 2022-2023
- Western Vic PHN - Data Linkage for Youth Suicide in the Barwon Region: 2022-2023
- Western Vic PHN – Exploring the barriers and enablers to mental health service integration in the Barwon region: 2023-2024
- Interim Regional Body for Mental Health and Wellbeing, Regional Audit: 2023



Centre for Innovation in Infectious Disease and Immunology Research (CIIDIR)

OVERVIEW

CIIDIR is an important and timely initiative of Barwon Health and Deakin University which aims to unify our infectious disease, microbiome and immunology expertise, bringing together a vibrant network of researchers working collectively to reduce the burden of infectious and immune-mediated disease in our community and beyond.

CIIDIR encompasses four main Research Pillars

- Molecular Microbiology,
- Immunity and Inflammation,
- Population Health and Biology, and
- Clinical and Public Health Research.

Several of the research groups have expertise and projects in more than one pillar. CIIDIR encourages collaboration and projects that overlap with more than one research pillar by providing small research grants, with eight grants provided so far to teams.

CIIDIR has several cross-cutting activities that operate across all research pillars to ensure access to the best training, resources and enabling technologies as well as ensuring discoveries are translated into solutions for human health.

Since CIIDIR launched in December 2022, there have been a number of exciting developments, including:

- Launch of the CIIDIR website <https://ciidir.com.au> which includes information on programs, projects, our research team and news.
- Seed and Project Grants. A call for proposals for small projects intended to stimulate new ideas and multidisciplinary collaborations was launched in early 2023. CIIDIR received 14 excellent applications from eight different research groups and spanning all four research pillars. Of these, we were able to fund nine proposals. This has stimulated new collaborations on a range of topics including on Buruli ulcer therapeutics, COVID-19 and antimicrobial resistance.

RESEARCH LEADS



Professor Alyssa Barry
Scientific Director



Professor Eugene Athan
Clinical Director



- Major grant funding: Several CIIDIR members have been successful as Chief Investigator on major grant bids worth over \$12 million including from the National Health and Medical Research Council, Medical Research Future Fund, the USA Food and Drug Administration, Ian Potter Foundation, and the Victorian Critical Vaccines Collection.

RESEARCH TEAM

- Professor Alyssa Barry, Co-Director – CIIDIR, Systems Epidemiology of Infection
- Professor Eugene Athan, Co-director – CIIDIR, Infectious Diseases
- Professor Tania de Koning Ward, Molecular Microbiology
- Professor John Stambas, Virology
- Professor Alister Ward, Preclinical Studies
- Professor Catherine Bennett, Epidemiology
- Professor Julie Pasco, Epidemiology
- Associate Professor Cenk Suphioglu, Biomedical Science
- Associate Professor Hassan Valley, Infectious Disease Epidemiology
- Dr Stephane Bouchoucha, Infection prevention and control
- Professor Anastacia Hutchinson, Infection prevention and control
- Dr John Stenos, Director, Australian Rickettsial Reference Laboratory
- Dr Vinod Sundaramoorthy, Viral Pathogenesis
- Dr Kirsty McCann, Scientific Coordinator – CIIDIR, and Associate Research Fellow, Genomic Epidemiology
- Dr Darcie Cooper, Research Fellow in Infectious Diseases
- Dr Carly Botheras, Associate Research Fellow
- Professor Peter Vuillermin, Paediatrician and Director of Research, Barwon Health
- Dr Luba Sominsky, Senior Scientist
- Dr Poshmaal Dhar, Executive Dean Research Fellow, Mucosal immunologist
- Dr Charles Narh, Executive Dean Research Fellow
- Dr Zahra Razook, Molecular Biologist Research Assistant
- Dr Christine Roder, Infectious disease and public health Researcher
- Dr Amanda Wade, Infectious Diseases Physician
- Dr Michael Muleme, Epidemiologist
- Dr Bridgette McNamara, Epidemiologist
- Dr Sajal Kumar Saha, Executive Dean Health Research Fellow
- Associate Professor Daniel O'Brien, Director of Infectious Diseases, Barwon Health

COLLABORATING ORGANISATIONS

CIIDIR will integrate with and leverage established programs within Deakin University including IMPACT, the Institute for Frontier Materials (IFM), the Institute for Intelligent Systems Research and Innovation (IISRI), the Institute for Health Transformation (IHT), the School of Medicine (SoM), the School of Health & Social Development (SHSD), the School of Life and Environmental Sciences (LES) and Barwon Health, including the Department of Infectious



Diseases, the BSW Public Health Unit, the Adrian Costa Clinical Trials Centre and the Australian Rickettsial Reference Laboratory.

External collaborators include:

- CSIRO (Australian Centre for Disease Preparedness)
- Murdoch Children's Research Institute
- Burnet Institute
- Walter and Eliza Hall Institute
- Doherty Institute
- University of Melbourne



NEWS: NHRMC grant success for Barwon Health clinician researcher

November 2022

A strong collaborative approach to hepatitis C testing and treatment has resulted in Western Victoria having the highest hepatitis C treatment uptake rate in the country. The team delivering this outcome has involved general practitioners, harm reduction workers, specialists and community organisations.



Barwon Health is celebrating the success of Dr Amanda Wade, Barwon Health infectious diseases physician and senior research fellow at the Burnet Institute, who has been awarded a 5 year NHMRC Emerging Leader Investigator Grant in the latest round of Federal Government research funding to further the work of the South West Victorian hepatitis C elimination team.

Hepatitis C is a blood borne virus, most commonly transmitted in Australia by sharing needles, syringes or injecting equipment. Without treatment, hepatitis C can cause cirrhosis, liver failure and liver cancer. Since 2016 there has been curative, well-tolerated treatment for hepatitis C. The effectiveness of treatment and harm reduction measures has led the World Health Organisation to set targets for the elimination of hepatitis C as a public health threat by 2030.

Although initial hepatitis C treatment uptake rates were high in Australia, for a multitude of reasons treatment uptake has slowed, and to stay on track to achieve the WHO targets an increase in both hepatitis C testing and treatment is required, especially in rural and regional Australia. Access to hepatitis C care in rural and regional Australia relies on general practice, when compared to metropolitan Australia which has a higher access to specialist care.

Raising awareness and decreasing stigma are vital to the elimination of hepatitis C, and Barwon Health was fortunate to work with the 'It's your Right' hepatitis C treatment campaign, led by Harm Reduction Victoria and co-designed with the Burnet Institute.



Emergency

OVERVIEW

The University Hospital Geelong Emergency Department research team has been involved in a wide range of clinical and systems-based research around emergency department care over many years. Multisite and collaborative studies and clinical trials have been undertaken investigating both acute emergencies, diagnostics, treatments and public health issues around emergency presentations.

A spectrum of methodologies have been employed in previous and current research including quantitative as well as qualitative and mixed methodology approaches. The broad range of clinical care provided in the University Hospital Geelong Emergency Department has lent itself to a wide range of clinical, translational and systems care research with multiple internal and external collaborations to broaden the scope of research outside of local emergency care.

The early uptake of new modalities of care, systems approaches and models of supervision has also been a consistent theme of the emergency department and is reflected in the research undertaken both in the past and currently. Increasing participation in larger collaborative clinical research projects is an ongoing focus.

RESEARCH LEAD



Dr Julian Stella
Head of Research

KEY RESEARCH AREAS

- EDNAV- Emerging Drugs Network of Australia VIC
- COVID-19 Research and the ED Data registry
- Netball Women's' Injury Study
- PREDICT network trials
- Paediatric cervical spine injury project
- ARISE Fluids in sepsis trial

RESEARCH TEAM

We have a whole-of-department approach to research with many contributors from medical, nursing and other clinical groups. Key contributors include:

- Dr Julian Stella, Co-Director Research in the Emergency Department
- Dr Jeremy Furyk, Co-Director of Research in the Emergency Department
- Nicole Lowry, Research Assistant
- Dr Stephen Gill, Physiotherapist and researcher



- Dr Belinda Hibble, Director of Emergency Department
- Dr Bruce Bartley, Deputy Director Emergency Department

COLLABORATING ORGANISATIONS

- AFL
- Ambulance Victoria
- Australasian College of Emergency Medicine
- Australian and New Zealand Intensive Care Research Centre
- B-CORE
- Colac Area Health
- Deakin University
- Epworth HealthCare
- PREDICT
- South West Healthcare
- St John of God Health Care

RESEARCH GRANTS

- Emerging Drugs Network of Australia VIC, 2023 – 2026
- FEBCON Antipyretics for Febrile Convulsions trial- NHMRC 2023-2026
- ARISE Fluids in sepsis trial - NHMRC funded 2023- ongoing



Endocrinology and Diabetes

OVERVIEW

The main focus of the Endocrinology and Diabetes Research team is diabetes and obesity, with multiple active clinical trials in type 1 diabetes mellitus, type 2 diabetes mellitus, and obesity in progress and in the planning stages.

The Clinical Trials Unit (CTU) is currently collaborating with the Wathaurong Aboriginal Co-operative to invite First Nation's people who have type 2 diabetes to trial a continuous glucose monitoring device to see if they can improve their blood glucose management.

The Clinical Trials Unit was previously particularly focussed on osteoporosis, a disease affecting over one million Australians that makes bones become brittle leading to a higher risk of breaks than in normal bone. Much of our research uses data from the Geelong Osteoporosis Study, as well as clinical data gathered through our clinical practices. Recent analyses have focused on muscle loss, frailty and the effect of diabetes on the skeleton. In collaboration with Barwon Health's Intensive Care Unit, we are also examining the impact of critical illness on skeletal health and mortality.

Our Clinical Trials Unit is national lead on the majority of its commercially sponsored clinical trials and is renowned for its high standards of clinical care and ethical standards, as well as start-up timelines and trial completion.

KEY RESEARCH AREAS

- Geelong Osteoporosis Study
- Skeletal Outcomes Following Intensive Care (SOFter)
- Early intervention for Paget's disease of bone (ZiPP study)
- Diabetes trials
- The Environmental Determinants of Islet Autoimmunity (ENDIA) Study

RESEARCH LEADS



Professor Mark Kotowicz
Director



Kate Ellis
Clinical Trials Unit Manager



RESEARCH TEAM

Research staff

- Professor Mark Kotowicz, Research Lead, Department of Endocrinology and Diabetes and Deakin University School of Medicine
- Dr Shannon McCarthy, Clinical Trial Principal Investigator
- Dr Aaron Choy, Endocrine Fellow 2023
- Dr Anna Cunliffe, Endocrine Fellow 2024
- Dr Anna Anderson, Endocrinology Representative on Research Advisory Committee
- Dr Kimberly Cukier, Director Department of Endocrinology and Diabetes, University Hospital Geelong
- Kate Ellis, Clinical Trials Unit Manager
- Anne Welsh, Clinical Trials Nurse Coordinator
- Jo Chambers, Clinical Trials Nurse Coordinator
- Fahriya Zandari, Clinical Trials Nurse Coordinator

Research Students

- Lelia de Abreu, PhD
- Monica Tembo, PhD
- Matthew Thackery, MPhil

COLLABORATING ORGANISATIONS

- Active Life Sciences, California
- Centre for Eye Research Australia
- Hospital del Mar-IMIM, Autonomous, University of Barcelona
- Hudson Institute of Medical Research
- IMPACT
- Lausanne University Hospital, Switzerland
- Monash Health
- University of Edinburgh, Western General Hospital
- Westmead Hospital



NEWS: RSV vaccine trialled at Barwon Health approved by US FDA

May 2023

Barwon Health's Adrian Costa Clinical Trials Centre (ACCTC) has recently collaborated with GSK on the world's first respiratory syncytial virus (RSV) vaccine for older adults.



The US FDA approved GSK's new Arexvy vaccine. The ground-breaking approval will enable adults aged 60 years and older to be protected from RSV disease for the first time.

RSV is a common contagious virus affecting the lungs and breathing passages. Older adults are at high risk for severe disease due in part to age-related decline in immunity, and older adults with underlying conditions are at even greater risk for severe disease.

RSV can exacerbate conditions, including chronic obstructive pulmonary disease (COPD), asthma, and chronic heart failure and can lead to severe outcomes, such as pneumonia, hospitalisation, and death. According to GSK, each year approximately 177,000 adults 65 years and older are hospitalised in the US due to RSV; an estimated 14,000 cases result in death

Local participant Margaret Lourey (pictured, with Bree Sarah and Kate Ellis) was pleased knowing she had been a part of a study that would save lives across the globe.

"Knowing I've been a part of helping to produce a vaccine that would help people across Australia and the world is really exciting. The team here at the clinical trials centre have been wonderful and I've found it to be such a rewarding experience," she said:

Barwon Health's Clinical Trial Manager Kate Ellis said "The research teams here at Barwon Health have a long history of running successful clinical trials, and this latest vaccine is just another example of how important clinical trials are in the discovery of new vaccines and other treatments. Over the past 20 years our teams have led many clinical trials that have gone on to save many lives."



General Surgery

OVERVIEW

The Department of Surgery has a strong research focus and a productive publication output, and constantly strives to improve patient outcomes. The University Department of Surgery collaborates with local and global organisations to ensure patients receive best surgical outcomes. The department strives to embrace new technologies and latest surgical research, promoting and encouraging students to undertake PhD, Masters of Surgery and Honours programs which are supervised by department academics.

RESEARCH TEAM

Research staff

- Alfred Deakin Professor David Watters, General Surgeon, Academic
- Professor Glenn Guest, General Surgeon, Academic
- Associate Professor Douglas, General Surgeon, Academic
- Dr Sonal Nagra, General Surgeon, Academic
- Associate Professor Saleh Abbas, Hon, Clinical Associate Professor
- Ms Stephanie Kempton, Trauma Audit Coordinator
- Mrs Anne Vandewater, Executive Assistant to the Chair of Surgery

Research Students

- Dr Wendy Crebbin, PhD
- Dr Amelia McGuinness, PhD
- Dr Louis Scarrold, Master of Surgical Research
- Dr Hamish Morgan, Master of Surgical Research
- Dr Anh Vu, Master of Surgical Research
- Dr Henry Drysdale, Master of Surgical Research
- Dr John Kefalianos, Master of Surgical Research
- Dr Pranav Divakaran, Master of Surgical Research

RESEARCH LEADS



Professor David Watters
General Surgeon, Academic



Professor Glenn Guest
General Surgeon, Academic



A/Professor Douglas Stupart
General Surgeon, Academic



Dr Sonal Nagra
Director of General Surgery,
Academic



COLLABORATING ORGANISATIONS

Cancer Council Victoria

- Deakin University
- Epworth Geelong
- Institute for Intelligent Systems Research and Innovation
- Royal Australasian College of Surgeons (RACS)
- Safer Care Victoria
- The Royal Children's Hospital Melbourne
- The University of Edinburgh
- The University of Melbourne
- Victorian Perioperative Consultative Council (VPCC)



Infectious Diseases

OVERVIEW

The Department of Infectious Diseases Research Team is a multidisciplinary group that tackles the transmission, treatment and prevention of some of the public's most pressing health challenges, including:

- COVID-19
- Healthcare-associated infections
- Emerging infectious diseases
- Mycobacteria ulcerans (Buruli Ulcer)
- Infections of medical devices
- C. difficile infection
- Hepatitis C
- Infective endocarditis (infection of the heart)
- Antimicrobial resistance
- HIV
- Staphylococcal infections

RESEARCH LEAD



Professor Eugene Athan
Director

In addition, we are leaders in development of strategies and safeguards in the areas of refugee health and antimicrobial stewardship (responsible use of antibiotics).

Our Department is also a significant and active member of the Barwon Health Clinical Trials Unit (CTU), which, over 25 years and with the contribution of thousands of volunteers, is regarded as one of the leading hubs for clinical trials in the development of new treatments and technologies. The CTU is renowned for its start-up timelines and is national lead on the majority of its global commercially sponsored clinical trials. Recent CTU clinical trials include the MATISSE Trial of a vaccine against Respiratory Syncytial Virus (RSV) for pregnant women, as well as a trial of an RSV vaccine for older adults.

KEY RESEARCH AREAS

- Transmission of Buruli Ulcer
- Real world Efficacy of Antiviral therapy in Chronic Hepatitis C (REACH-C)
- COVID-19 Research
- Clinical Trials

RESEARCH TEAM

Research staff

- Professor Eugene Athan, Director BSW Public Health Unit



- A/Professor Daniel O'Brien, Director Department of Infectious Diseases
- Dr Caroline Bartolo, Infectious Diseases Physician
- A/Professor Andrew Hughes, Infectious Diseases Physician
- Dr Amanda Wade, Infectious Diseases Physician
- Dr Sarah Huffam, Infectious Diseases Physician
- Dr Aaron Walton, Infectious Diseases Physician and Clinical Microbiologist
- Dr Cameron Jeremiah, Infectious Diseases Physician
- Dr Nomvuyo Mothobi, Infectious Diseases Physician and Clinical Microbiologist
- Dr Callum Maggs, Infectious Diseases Physician
- Dr Bridgette McNamara, Epidemiologist
- Dr Michael Muleme, Epidemiologist
- Dr Christine Roder, Research Assistant
- Jo Chambers, Clinical Trial Coordinator
- Fahriya Zandari, Clinical Trial Coordinator
- Kate Ellis, Clinical Trial Unit Manager
- Anne Welsh, Clinical Trial Coordinator

Research Students

- Darcie Cooper, PhD
- Selorm Avemegah, PhD
- Carly Botheras, PhD
- Rochelle Hamilton, PhD

COLLABORATING ORGANISATIONS

- Burnet Institute
- CSIRO
- Deakin University
- Kirby Institute
- University of Melbourne
- WEHI



NEWS: Dr Christine Roder awarded Gilead Research Fellowship to investigate hepatitis B care

March 2023

Congratulations to Dr Christine Roder, pictured, infectious disease and public health researcher at Barwon Health, who has been awarded a Gilead Research Fellowship to investigate models of care that can improve access to hepatitis B care in the Barwon South West region of Victoria.

Christine's research project will map the distribution of people at risk of hepatitis B, hepatitis B notifications and current hepatitis B healthcare providers in the region to identify areas where there is a need for greater access to care. The research team will then conduct interviews with community-based healthcare providers in those areas to gain insight into their current practice and what models of care they think will be appropriate for their practice and their patient's needs.

This project will inform hepatitis B service delivery in the Barwon South West region of Victoria, and act as a hepatitis B elimination template for other rural and regional areas of Australia.



Institute for Mental and Physical Health and Clinical Translation (IMPACT)

OVERVIEW

IMPACT develops new and effective responses to mental and physical health for our community. We use cutting-edge approaches to translate our medical research from the laboratory to real-world solutions.

Our team of over 300 researchers has a shared aim to improve the quality of life of our global community. We work to develop innovative diagnostics, treatments and therapies for mental health conditions and chronic diseases.

IMPACT is unique in its transdisciplinary and collaborative structure. Our silo-free approach allows us to tackle the complex mental and physical disorders that are a significant burden of disease in Australia, and across the world.

Recent IMPACT Trials include:

- The TINA Trial, testing whether the antidepressant drug, mirtazapine can help people to stop using ice
- The CADET Trial of candesartan in reducing symptoms of depression and improving general quality of life
- The CALM trial, a group-based, telehealth clinical trial designed to support positive lifestyle changes aimed at improving mental health for adults experiencing psychological distress.

RESEARCH THEMES

- Clinical Trials and Interventions
- Food and Mood
- Infection, Immunity and Cancer
- Mental Health Disorders and Neuroscience
- Molecular Medicine
- Novel Treatment Discovery
- Population Health

RESEARCH LEADS



Professor Michael Berk
Director



Professor Ken Walder
Co-Director, IMPACT
Theme Lead, Novel
Treatment Discovery



RESEARCH TEAM

Directors

- Alfred Deakin Professor Michael Berk, Director
- Professor Ken Walder, Co-Director

Research Theme Leads

- Associate Professor Olivia Dean, Clinical Trials and Interventions
- Alfred Deakin Professor Felice Jacka, Food and Mood
- Professor Tania De Koning-Ward, Infection, Immunity and Cancer
- Professor Alison Yung, Mental Health Disorders and Neuroscience
- Professor Sean McGee, Metabolic, Musculoskeletal and other Co-morbid Disorders
- Professor Ken Walder, Drug Discovery, Repurposing, Therapeutics and Biomarkers
- Professor Julie Pasco, Population and Epidemiological Analyses

COLLABORATING ORGANISATIONS

- For a full list of national and international collaborators, visit impact.deakin.edu.au

RESEARCH GRANTS

Highlights include:

- Medical Research Futures Fund - Mental Health Australia General Clinical Trial Network (MAGNET): Michael Berk: 2021 – 2026
- National Health and Medical Research Council - MRFF Efficient Use of existing medicines: Michael Berk, Alyna Turner, Olivia Dean: 2021 – 2025
- National Health and Medical Research Council Investigator Grant - Nutritional Psychiatry: extending the evidence and ensuring translation: Felice Jacka, 2021 - 2026
- Stanley Medical Research Institute - A clinical trial of trimetazidine for bipolar depression in Spain and India: Ken Walder: 2021- 2024
- 2022 National Health and Medical Research Council (NHMRC) Investigator Grants Scheme:
 - Development of a bench to bedside platform for novel therapy development for psychiatric disorders – Professor Michael Berk
 - 'Food, mood and microbes: Improving mental health through diet' project – Dr Heidi Staudacher
- 2022 ARC Future Fellowships:
 - Prefrontal dopamine in the dynamic processes of learning across lifetime - Associate Professor Jee Hyun Kim
 - Engineering nanoscale tools for cellular interrogation - Dr Roey Elnathan

See a complete listing at impact.deakin.edu.au



NEWS: World-first trial to investigate new medication for methamphetamine dependence

February 2023

In a world-first, Australian researchers are trialling a new medication to help people who want to stop using crystal methamphetamine or 'ice'.

Led by researchers from the National Drug and Alcohol Research Centre (NDARC) at UNSW Sydney, the Tina Trial will investigate if the antidepressant drug, mirtazapine can help people to stop using ice. Currently there are no medications available to treat methamphetamine dependence.



The Tina Trial is the largest trial of its kind ever attempted in Australia. It is being conducted at frontline clinical services in Geelong, Wollongong, Brisbane and Perth. Funded by the Medical Research Future Fund, NDARC is leading the randomised controlled trial in collaboration with Deakin University, Monash University, the University of Wollongong, and the University of Sydney, together with health services in Geelong, Brisbane, Perth and Wollongong.

Mirtazapine (sold as Avanza) is an antidepressant drug that is already available in Australia.

Associate Professor Olivia Dean from Deakin University and Barwon Health says reusing existing medications for new applications fast tracks new treatments. "If proven effective, it would provide a relatively cheap treatment option that could be quickly put into clinical practice," Associate Professor Dean says.



Intensive Care

OVERVIEW

Research is a pillar of intensive care medicine. It is essential to inform us how we best treat patients who are critically ill. Conducting research in the ICU requires a careful and considered approach to the unique aspects of this environment. Our patients are often unconscious, with acute diseases that put them at high risk of dying. Their families are particularly stressed, and dealing with their own uncertainty while trying to advocate and support their loved one.

Barwon Health ICU is a member of the Australian and New Zealand Intensive Care Society – Clinical Trials Group (ANZICS-CTG), and also conducts research that ranges from multi-centre clinical trials to observational studies, single site and healthcare registry studies.

Barwon Health Intensive Care is an international leader in research examining bone loss after critical illness. A/Professor Neil Orford is the Chief Investigator for the multicentre, MRFF-funded BONE ZONE Trial examining the effect of zoledronic acid or denosumab in critically ill women and men.

KEY RESEARCH AREAS

- Skeletal Outcomes after Intensive Care
- Outcomes of Haematology Oncology and Critical Illness
- Goals of patient care (iValidate)
- Patient Reported Outcomes and Experience

Clinical trials currently underway at the Barwon Health ICU are investigating:

- Respiratory support after cardiac surgery
- Medications to prevent bone loss and fractures in the years after critical illness
- Choice of antibiotics and steroids for treating pneumonia
- Medication to prevent gastric ulcers during critical illness
- Mobilising critically ill patients early in their treatment
- Protein concentration of nutrition
- Optimal blood oxygen levels to target
- Shared decision-making for patients with life limiting illness
- Effective management of extracorporeal life support

RESEARCH LEAD



A/Professor Neil Orford

Senior Intensive Care Staff
Specialist

Head of ICU Research



RESEARCH TEAM

Research staff

- Michelle Horton, ICU Research Nurse
- Jemma Trickey, ICU Research Nurse
- Erfana Thashneem, Deputy Head of Research
- Neil Orford, Head of ICU Research

COLLABORATING ORGANISATIONS

- Australia & New Zealand Intensive Care Society – Clinical Trials Group
- College of Intensive Care Medicine
- IMPACT
- La Trobe University
- Monash University - ANZIC-RC
- The George Institute for Global Health

RESEARCH GRANTS

- 2023: MRFF MNHS Grant: 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: MRFF: iCare – An interactive online portal to improve health and wellbeing for people living with complex cancers, and their informal carers: a Phase II randomised controlled trial.
- 2020: MRFF RCRDUN Grant: Bone loss prevention with zoledronic acid or denosumab in critically ill women – a randomised controlled trial.



Neuroscience

OVERVIEW

The Department of Neuroscience at Barwon Health conducts research into the brain and the nervous system. Participating in large-scale global and national clinical trials as well as investigator initiated studies, we are held in high regard with our contribution to research into stroke, Multiple Sclerosis (MS), Motor Neurone Disease (MND), headaches and migraines, and autoimmune encephalitis.

Barwon Health is the primary centre for the national Motor Neurone Disease (MND) research database, which has patients registered from all over Australia from the 13 major MND clinics.

We are also involved in investigating new therapies for MS, which are evolving rapidly. Due to their complexity, these therapies require a high level of testing and oversight and the department has a dedicated MS Nurse who monitors patients receiving these and other experimental therapies.

KEY RESEARCH AREAS

- MiNDAUS NHMRC partnership. Motor Neurone Disease: patient-centred care for a progressive neurological disease-evidence driving policy
- AVERT DOSE – determining optimal early rehabilitation after Stroke
- Autoimmune Encephalitis and Other Neuroinflammatory Conditions

RESEARCH TEAM

- Professor Paul Talman, Consultant Neurologist
- A/P Ben Clissold, Consultant Neurologist
- Dr Cassie Nesbitt, Consultant Neurologist
- A/P Cameron Shaw, Consultant Neurologist
- Ms Katrina Sangster, Clinical Research Nurse
- Ms Michelle Hiddleston, Stroke Coordinator, Stroke Services

COLLABORATING ORGANISATIONS

- Alfred Health
- Calvary Health Care Bethlehem
- Deakin University

RESEARCH LEAD



Professor Paul Talman
Consultant Neurologist



- Florey Institute of Neuroscience and Mental Health
- MND Australia
- Monash University
- University of Queensland
- University of Sydney

RESEARCH GRANTS

- MiNDAUS NHMRC partnership. Motor Neurone Disease: Patient centred care for a progressive neurological disease-evidence driving policy. Professor Paul Talman, 3 years



Oral Health

OVERVIEW

Oral health is essential to general health and wellbeing at every stage of life. The mouth serves as a “window” to the rest of the body, providing signals of general health disorders, while oral conditions themselves can also have an impact on overall health and disease, such as bacteria from the mouth causing infection in other parts of the body.

Research is an integral part of Oral Health Services at Barwon Health. Research aligned with performance measures allows the service to monitor where and how our dental care can best promote good oral health, and evaluates new public health initiatives, especially in rural and regional communities.

RESEARCH LEAD



A/Professor Michael Smith
Director

KEY RESEARCH AREAS

- Early childhood caries
- Redesigning the forefront of emergency dental care
- A deliberate reduction of antimicrobials prescribed in the public community dental clinic

RESEARCH TEAM

Research staff

- Affiliate Associate Professor Michael Smith, Director, Oral Health Services
- Dr Jacqui Pawlak, Ethics Manager
- Ms Sharon Lewis, Clinical Manager
- Mrs Lindy Carroll, Administration Manager

COLLABORATING ORGANISATIONS

- Adams School of Dentistry, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, USA
- Australian Network for Integration of Oral Health
- Bristol Dental School, University of Bristol, UK
- Child and Community Wellbeing Unit
- Dental Health Services Victoria
- Department of Odontology, Section of Paedodontics, Umeå, Sweden
- La Trobe University



- Murdoch Children's Research Institute
- Royal Children's Hospital, Melbourne
- University of Melbourne

RESEARCH GRANTS

- University of Melbourne Research Grant and an Alliance for a Cavity Free Future (ACFF) grant



Orthopaedics: Barwon Centre for Orthopaedic Research and Education (B-CORE)

OVERVIEW

Barwon Centre for Orthopaedic Research and Education (B-CORE) is one of the broadest and most active research groups dedicated to orthopaedic musculoskeletal health research in Australia. B-CORE has extensive clinical trials experience on investigator-initiated, national and international multi-centre studies. B-CORE is a member of the Institute for Mental and Physical Health and Clinical Translation (IMPACT), under the School of Medicine at Deakin University.

In the past decade, we have expanded to include researchers across multiple disciplines, including sports and exercise sciences, nutrition and dietetics, epidemiology, molecular biology, genomics, political science and health economics. We collaborate with research teams working across the world to help advance the science of musculoskeletal health.

The B-CORE team explores every aspect of musculoskeletal health and conducts 'bench-top to bedside' research from basic investigations to clinical trials of new treatments, process change in care delivery and population-wide studies of prevention.

While our core mission is to translate this knowledge into new strategies to control musculoskeletal health, many of our investigators are also making scientific progress against other diseases and conditions.

B-CORE manages the Barwon Joint Registry, which contains over 5,000 people actively following joint replacements. B-CORE researchers recently utilised Registry data in a study that found simultaneous bilateral knee replacements conducted at Barwon Health were comparatively safe, cost-effective and improved pain and function at faster rates than staged knee replacements.

RESEARCH LEADS



Professor Richard Page
Director



Dr Kirsten Porter
Research Coordinator



Dr Stephen Gill
Senior Research Fellow



B-CORE also partners with the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR) to conduct registry-nested clinical trials and to investigate the effects of different surgical procedures, for example the CRISTAL study (Aspirin vs Heparin for prevention of deep vein thrombosis post joint replacement).

KEY RESEARCH AREAS

- Shoulder Conditions & Surgery
- Joint replacement surgery including the Barwon Joint Registry
- Sports injuries – epidemiology, prevention and rehabilitation

RESEARCH TEAM

Research staff

- Professor Richard Page, Director
- Dr Stephen Gill, Senior Research Fellow
- Dr Kirsten Porter, Research Coordinator
- Amanda Cowland, Data Coordinator
- Tracey Lipsys, Data Coordinator

Research Students

- Masters of Surgical Research Candidates
 - Dr Henry Ring
- PhD Candidates
 - Mr Nick Emerson, Institute of Frontier Materials
 - Dr Sam Lynskey, Orthopaedic Surgery
 - Dr Fil Cosic
 - Dr Narinder Kumar

COLLABORATING ORGANISATIONS

National

- ACDI Collaboration
- AFL
- AOA National Joint Replacement Registry
- Australian and New Zealand Hip Fracture Registry
- Australian Orthopaedic Association
- Deakin University
- Epworth HealthCare
- La Trobe University
- Monash University
- Shoulder and Elbow Society of Australia
- St John of God Health Care
- Sydney University
- University of Melbourne
- University of NSW
- Victorian Orthopaedic Foundation
- Victorian Orthopaedic Trauma Outcomes Registry



International

- Herlev-Gentofte Hospital, University Of Copenhagen, Denmark
- Hôpitaux Universitaires Genève, Switzerland
- Kaiser Permanente, USA
- Karolinska Institutet, Sweden
- LROI Dutch Joint Registry
- McMaster University, Canada
- Nordic Arthroplasty Registry Association
- Oxford University, (NDORMS) UK
- Schulthess Clinic, Switzerland

RESEARCH GRANTS

- NIHR – NHMRC Grant – Reverse or Anatomical (replacement) for Painful Shoulder Osteoarthritis: Differences between Interventions – (RAPSODI-Aus) Deakin University: 2021
- MRFF Ideas Grant - Intensive physiotherapy to lower hospital length of stay after hip fracture HIPSTER Study - Monash University 2022
- NHMRC Ideas Grant - Predicting fracture outcomes from clinical Registry data using Artificial Intelligence Supplemented models for Evidence-informed treatment (PRAISE) study: 2021 – 2024
- Australian Orthopaedic Association (AOA) Research Foundation - Clinical biomarker shoulder study: transcriptomic differences between osteoarthritis of the shoulder, capsulitis and rotator cuff tears: 2021 -2023
- AOA Research Foundation - PhD research scholarship: 2021 - 2022
- Australian Football League - Injury Profiles of female Australian Rules Football players: a survey of Geelong and South-Western Victoria (AFLW Injury Study): 2018 - 2020
- Deakin University - Gender differences in lower limb biomechanics in Australian Football players: 2021
- De Puy Orthopaedic Fellowship: 2006 - 2024
- SJOG Health Care - SJOG Research Fellowship: 2017-2026
- Canadian Institutes of Health Research - Advancing the Care of Patients with Musculoskeletal Injuries Worldwide through Multi-National Research Initiatives: 2016 - 2023



NEWS: Barwon Health part of new research project to improve outcomes for children with hip dysplasia

August 2022

Congratulations to Mr Richard Angliss MBBS, FRACS (Ortho), FAOrthoA, chief investigator in a \$2.5 million Medical Research Future Fund (MRFF) grant recently awarded to establish a state-wide hip dysplasia registry for children with the condition.



Mr Angliss is a Consultant Orthopaedic Surgeon at Barwon Health with 26 years' experience specializing in paediatric orthopaedic conditions. He established the Barwon Health Hip Dysplasia screening service, Club Foot service and Physio-led musculoskeletal services. His work has established Barwon Health as the largest provider of paediatric orthopaedic services in regional Victoria.

Hip dysplasia is the most common childhood bone and joint birth defect, affecting about 1.5 per cent of infants and children in Australasia each year, including about 1500 in Victoria.

In babies with this condition, the hip joint does not develop normally, which results in abnormal hip development, instability or dislocation. This can cause substantial pain, disability and decreased quality of life. Hip dysplasia is usually diagnosed in the first six months of life and either observed or treated with a brace. However, some children with the condition go undetected until late childhood or adolescence.

Along with support from The Royal Children's Hospital (RCH) Department of Orthopaedics, the grant will fund the establishment of a Victoria hip dysplasia clinical registry (VicHip); a registry of all Victorian children who present with hip dysplasia.

Barwon Health, along with the Royal Children's Hospital, Monash Health and Western Health manage the majority of cases of hip dysplasia in Victoria and will collect data for VicHip from public and private facilities and rural health centres.

It is hoped that VicHip will help to provide clarity in the management of hip dysplasia, reduce unnecessary treatment, and help identify patients at risk.



Palliative Care

OVERVIEW

The Barwon Health Palliative Care Research Group aims to improve quality of life for patients by conducting research into commonly experienced palliative care symptoms such as pain, cancer cachexia, nausea, loss of appetite, breathlessness and delirium. Research is embedded into every aspect of our service delivery, and our team is committed to undertaking and facilitating quality research.

As a member of the national Palliative Care Clinical Studies Collaborative (PaCCSC) and Cancer Symptoms Trials (CST) Group Barwon Health has been a research site for pivotal multi-centre studies that have triggered the re-evaluation of commonly used symptom management approaches for people with life-limiting diseases. Additionally the unit has worked hard to build and foster a research culture within the multi-disciplinary palliative care department and has supported the planning and implementation of a wide range of investigator-led projects through the Palliative Care Research Group.

We have also been involved in international pharmaceutical industry trials for cancer cachexia and have ongoing research into this debilitating condition through our Cachexia clinic.

RESEARCH LEADS



Dr Peter Eastman
Co-head, Palliative Care



Anna Dowd
Chair, Palliative Care Research
Group
Clinical Trial Coordinator

KEY RESEARCH AREAS

- COPD and Interstitial lung disease
- Cachexia research
- Palliative care service delivery
- A retrospective comparison of outcomes for patients with glioblastoma compared to non small cell lung cancer admitted to the palliative care unit
- Timing of palliative care referral for patients with advanced lung cancer in the immunotherapy era



RESEARCH TEAM

Research staff

- Dr Peter Eastman, Palliative Care Consultant, Co-head of Department
- Anna Dowd, Clinical Trial Coordinator and Chair of The Palliative Care Research Group
- Meg Harrison, Nurse Practitioner, MPhil Candidate, Deakin School Of Medicine

COLLABORATING ORGANISATIONS

- Australasian Lung Cancer Trials Group
- CST
- Deakin University
- PaCCSC
- Regional Trials Network Victoria
- University of Technology Sydney



Pharmacy

OVERVIEW

The Barwon Health Pharmacy Department has a wide research focus encompassing advanced hospital pharmacy practice, workforce innovation, telehealth, radiopharmacy, medication safety, antimicrobial stewardship and smoking cessation. In addition, the Pharmacy Department supports more than 100 investigator-led and industry sponsored clinical trials within Barwon Health.

KEY RESEARCH AREAS

- Advanced practice scope for pharmacists embedded in @home services in regional and rural settings
- VANISH Trial into treatment for smoking cessation among hospitalised smokers
- Establishment and evaluation of a perioperative medicines management service at regional hospital sites in Western Victoria

RESEARCH LEAD



Dr Greg Weeks
Director of Pharmacy

RESEARCH TEAM

Research staff

- Dr Greg Weeks, Director of Pharmacy
- Dr Diana Bortoletto, Senior Education and Training Pharmacist
- Garth Birdsey, Senior Cardiology Pharmacist
- Janice Chiang, Antimicrobial Stewardship Pharmacist
- Julia Salanowski, Analgesic Stewardship Pharmacist
- Katherine Snowden, Oncology trials pharmacist
- Tracy Shields, Clinical trials pharmacist
- Moi Thrift, Clinical trials pharmacist

Research Students

- Masters of Clinical Pharmacy (Monash): Nhi Le, Matt Hollett
- Masters of Business Administration (Deakin): Derek Chai
- Masters of Business Administration (University of Adelaide): Tommy Sperac
- Masters in Health Management and Leadership (University NSW): Clare Spiden
- Master of Digital Health (La Trobe University): Andrew Chin



COLLABORATING ORGANISATIONS

- Colac Area Health
- Deakin University
- Department of Health
- Grampians Health
- Monash University
- Society of Hospital Pharmacists
- South West Healthcare
- Western Alliance

RESEARCH GRANTS

- BSWRICS. A randomised controlled trial of an intensive clinical pharmacy intervention versus usual care in patients taking newly initiated oral cancer therapies: 2022-2023
- Western Alliance Academic Health Science Centre. Establishment and evaluation of a perioperative medicines management service at regional hospital sites in Western Victoria: 2023-4
- Allied Health Workforce Advanced Practice Grant. Advanced practice scope for pharmacists embedded in@home services in regional and rural settings: 2023-4



Radiation Oncology

OVERVIEW

The Radiation Oncology team use various forms of radiation to safely and effectively treat cancer, control the growth of the cancer or to relieve symptoms, such as pain. We understand the importance of research in discovering, designing and testing new treatments, and are actively involved in multiple clinical trials and research projects.

KEY RESEARCH AREAS

- The EXPERT Phase III Trial (breast cancer)
- Use of a Novel Metallic Nanoparticle¹ as a Radiation Dose Enhancer
- Use of Data Mining and Machine Learning to Assist in Radiotherapy Clinical Decision Making

RESEARCH TEAM

Medical Physics

- Thu Tran, Research Contact
- William Patterson

Radiation Oncology

- Dr Graeme Pitson, Outgoing Head of Unit

Radiation Therapy

- Ken Wan, Research Contact
- Philip Moloney
- Tom Ffrench

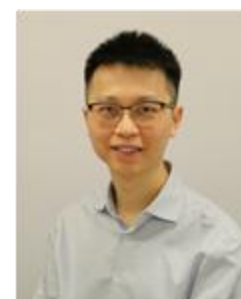
COLLABORATING ORGANISATIONS

- Box Hill Hospital
- Liverpool and Macarthur Cancer Institutes and Ingham Institute
- Olivia Newton-John Cancer Wellness & Research Centre
- Peter MacCallum Cancer Centre
- RMIT
- St Vincent's Hospital
- University of South Australia
- Western Health

RESEARCH CONTACTS



Dr Graham Pitson
Outgoing Head of Unit



Ken Wan
Chief Radiation Therapist



Thu Tran
Chief Medical Physicist



Barwon Health Strategic Research Symposium

HARNESSING THE MEDICI EFFECT

NEWS: 2022 Barwon Health Strategic Research Symposium

November 2022

The 2022- 2032 Barwon Health Research Strategic Plan formalises Barwon Health's ten year vision: to make internationally important contributions to research that have a measurable impact on the health of our community.

This vision was celebrated at the Barwon Health Strategic Research Symposium at University Hospital Geelong.

A crowd of over 80 people came together in person and online to hear from Barwon Health executive, research leadership and Barwon Health and Deakin University researchers of multiple areas and levels of experience across four excellent sessions.



In her opening remarks, Frances Diver, CEO, Barwon Health emphasised the commitment and investment being made into research to secure our position as a world class research ecosystem and culture.

We were also joined by representatives of our Strategic Research Programs, presentations by the finalists in the Best Research Paper of the Year Award, and an exhibition of the winners of the Best Research Poster Awards, both part of the annual Barwon Health and Deakin University Research Prize Program.

NEWS: 2022 BH DU Research Prizes

Barwon Health and Deakin University are committed to recognising and supporting the next generation of clinician researchers and scientists through the 2022 Barwon Health and Deakin University (BH DU) Research Awards.



BH DU BEST RESEARCH PAPER OF THE YEAR

These Awards recognise a research paper of outstanding quality by a Barwon Health and Deakin University scientist and clinician researcher, accepted or published during 2021 and 2022.

Research papers published in peer-reviewed journals are a the primary means of sharing scientific findings and advancing knowledge across the international research community, and are an excellent vehicle to view the wide breadth of research being undertaken across Barwon Health and Deakin University.

Congratulations to the winners of the 2022 BH DU Research Paper of the Year:

- Clinician Researcher Category - Professor Eugene Athan and the team from the BH Public Health Unit: Environmental risk factors associated with the presence of *Mycobacterium ulcerans* in Victoria, Australia. PLoS One. 2022 Sep 13;17(9):e0274627. doi:10.1371/journal.pone.0274627.
- Scientist Category - Ms Yuan Gao and the team from the Barwon Infant Study: Maternal gut microbiota during pregnancy and the composition of immune cells in infancy. Frontiers in Immunology. 2022 Sep 21;13:986340. doi:10.3389/fimmu.2022.986340.



BH DU RESEARCH POSTER AWARDS

Posters have long been a valuable opportunity to recognise researcher achievements, communicate findings and stimulate discussion, networking and the exchange of ideas between researchers and their colleagues.

The Research Poster Awards recognise the most outstanding research communicated via poster format conducted by Barwon Health or Deakin University researchers.

Congratulations to the winners of the 2022 BH DU Research Poster Awards:

- Allied Health/Pharmacy - Ms Erin Parker and the team from Barwon Health Social Work: Exploring primary care clinician's perspectives of the social work role in community health.



- Basic Science - Mrs Izel Eraslan and the team from IMPACT Trials: in vivo behavioural characteristics of novel RXFP3-acting drugs.
- Medical - Dr Christine Roder and the team from the BH Public Health Unit: Pregnancy - a key moment for engaging women with hepatitis B in care.
- Nursing - Mr Nathan Herbert and the team from the BH Cath Lab: Impact of COVID-19 pandemic lockdown on a Victorian regional ST-elevation myocardial infarction service.
- Population Health - Dr Naomi Clarke and the team from the BH Public Health Unit: COVID-19 oral antiviral medication in South West Victoria: patterns, barriers, and use of targeted SMS messaging.
- Surgery - Dr John Kefalianos and the team from BH General Surgery: Does NELA accurately predict mortality in Australia.



2022 -2023 Barwon Health Publications

List Prepared by Serena Griffin, Librarian, Barwon Health Library Service

- Aarthy, R., Aston-Mourney, K., Amutha, A., Mikocka-Walus, A., Anjana, R. M., Unnikrishnan, R., Jebarani, S., Venkatesan, U., Gopi, S., Radha, V., & Mohan, V. (2023). Prevalence, clinical features and complications of common forms of maturity onset diabetes of the young (MODY) seen at a tertiary diabetes centre in south india. *Prim Care Diabetes*, 20230411 <https://doi.org/10.1016/j.pcd.2023.04.004>
- Abe, Y., Sirichokchatchawan, W., Sangkomkamhang, U., Satthapisit, S., & Maes, M. (2023). Antenatal depressive symptoms are strongly predicted by the severity of pre-menstrual syndrome: Results of partial least squares analysis. *International Journal of Clinical and Health Psychology*, 23(2), 100356. <https://doi.org/10.1016/j.ijchp.2022.100356>
- Abeykoon, A. M. H., Poon, M., Firestone, S. M., Stevenson, M. A., Wiethoelter, A. K., & Vincent, G. A. (2022). Performance evaluation and validation of air samplers to detect aerosolized coxiella burnetii. *Microbiology Spectrum*, 10(5), e0065522. <https://doi.org/10.1128/spectrum.00655-22>
- Abida, W., Campbell, D., Patnaik, A., Bryce, A. H., Shapiro, J., Bambury, R. M., Zhang, J., Burke, J. M., Castellano, D., Font, A., Ganju, V., Hardy-Bessard, A., McDermott, R., Sautois, B., Spaeth, D., Voog, E., Piulats, J. M., Pintus, E., Ryan, C. J., . . . Chowdhury, S. (2023). Rucaparib for the treatment of metastatic castration-resistant prostate cancer associated with a DNA damage repair gene alteration: Final results from the phase 2 TRITON2 study. *European Urology*, <https://doi.org/10.1016/j.eururo.2023.05.021>
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- Adderley, J., Boulet, C., McCann, K., McHugh, E., Ioannidis, L. J., & Yeoh, L. M. (2022). Advances in plasmodium research, an update: Highlights from the malaria in Melbourne 2021 conference. *Molecular and Biochemical Parasitology*, 250, 111487. <https://doi.org/10.1016/j.molbiopara.2022.111487>
- Addington, J., Woods, S. W., Yung, A. R., Calkins, M. E., & Fusar-Poli, P. (2023). Harmonizing the structured interview for psychosis-risk syndromes (SIPS) and the comprehensive assessment of at-risk mental states (CAARMS): An initial approach. *Early Intervention in Psychiatry*, <https://doi.org/10.1111/eip.13401>
- Agar, J. W. M., & Piccoli, G. B. (2022). The regrets of a green dialysis warrior. *Journal of Nephrology*, 35(8), 1949-1951. <https://doi.org/10.1007/s40620-022-01472-0>
- Agar, J. (2023). Open letter: Sustainable, environmentally sympathetic dialysis. *Journal of Nephrology*, 36(4), 941-942. <https://doi.org/10.1007/s40620-023-01657-1>
- Agustini, B., Lotfaliany, M., Mohebbi, M., Woods, R. L., McNeil, J. J., Nelson, M. R., Shah, R. C., Murray, A. M., Reid, C. M., Tonkin, A., Ryan, J., Williams, L. J., Forbes, M. P., & Berk, M. (2022). Trajectories of depressive symptoms in older adults and associated health outcomes. *Nat Aging*, 2(4), 295-302. <https://doi.org/10.1038/s43587-022-00203-1>



- Aitken, R. J., & Watters, D. A. (2022). Clearing elective surgery waiting lists after the COVID-19 pandemic cannot be allowed to compromise emergency surgery care. *Medical Journal of Australia*, 217(5), 237-238. <https://doi.org/10.5694/mja2.51672>
- Al-Dujaili, A., Mousa, R. F., Al-Hakeim, H., & Maes, M. (2021). High mobility group protein 1 and dickkopf-related protein 1 in schizophrenia and treatment-resistant schizophrenia: Associations with interleukin-6, symptom domains, and neurocognitive impairments. *Schizophrenia Bulletin*, 47(2), 530-541. <https://doi.org/10.1093/schbul/sbaa136>
- Al-Hadrawi, D., Al-Rubaye, H., Almulla, A. F., Al-Hakeim, H., & Maes, M. (2023). Lowered oxygen saturation and increased body temperature in acute COVID-19 largely predict chronic fatigue syndrome and affective symptoms due to long COVID: A precision nomothetic approach. *Acta Neuropsychiatr*, 35(2), 76-87. <https://doi.org/10.1017/neu.2022.21>
- Al-Hakeim, H., Abd Al-Raheem Twaij, B., Ahmed, M. H., Almulla, A. F., Moustafa, S. R., & Maes, M. (2023a). In end-stage kidney disease, inflammation, erythron abnormalities and declined kidney function tests are accompanied by increased affective symptoms, chronic-fatigue, and fibromyalgia. *medRxiv*, <https://doi.org/10.1101/2023.01.12.23284460>
- Al-Hakeim, H., Abed, A. K., Almulla, A. F., Moustafa, S. R., & Maes, M. (2023b). Anxiety due to long COVID is partially driven by activation of the tryptophan catabolite (TRYCAT) pathway. *medRxiv*, <https://doi.org/10.1101/2023.04.24.23288115>
- Al-Hakeim, H., Al-Musawi, A., Al-Mulla, A., Al-Dujaili, A., Debnath, M., & Maes, M. (2022). The interleukin-6/interleukin-23/T helper 17-axis as a driver of neuro-immune toxicity in the major neurocognitive psychosis or deficit schizophrenia: A precision nomothetic psychiatry analysis. *PloS One*, 17(10), e0275839. <https://doi.org/10.1371/journal.pone.0275839>
- Al-Hakeim, H., Al-Naqeeb, T., Almulla, A. F., & Maes, M. (2023c). The physio-affective phenome of major depression is strongly associated with biomarkers of astroglial and neuronal projection toxicity which in turn are associated with peripheral inflammation, insulin resistance and lowered calcium. *Journal of Affective Disorders*, 331, 300-312. <https://doi.org/10.1016/j.jad.2023.03.072>
- Al-Hakeim, H., Al-Raheem Twaij, B. A., Al-Naqeeb, T., Moustafa, S. R., & Maes, M. (2023d). Neuronal damage and inflammatory biomarkers are associated with the affective and chronic fatigue-like symptoms due to end-stage renal disease. *medRxiv*, <https://doi.org/10.1101/2023.05.03.23289492>
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