Barwon Health

Research Report

2020

barwonhealth.org.au

Barwon Health

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Foreword from the Chief Executive and the Director of Research

Frances Diver
CEO, Barwon Health

Professor Peter Vuillermin
Director of Research, Barwon Health

Barwon Health has a thriving culture of curiosity, innovation and evidence-based practice. We are passionate about the integration of clinical care and research, in collaboration with our community, to solve important problems.

Each of our clinical departments has an established and productive research program. We work together across the life course, from pregnancy to aged care, to create and translate new knowledge.

Our partnership with Deakin University is crucial. It enables us to assemble interdisciplinary teams with skills in nursing, allied health, medicine, health services, laboratory sciences, biostatistics, computer science, public health, health economics, implementation science, and policy. Fit-for-purpose multidisciplinary teams are essential if we are to tackle the many challenges facing our health system.

It is crucial to encourage and support early career researchers from diverse backgrounds. Over the coming decade, we will increase the number of mental health, allied health, nursing, and medical clinicians undertaking post-graduate research training. These people will in turn establish their own research programs and nurture the next subsequent of clinician researchers.

Thanks to the extraordinary generosity of the Costa family, we are in the process of establishing the Adrian Costa Clinical Trials Centre. This initiative is vital to our goal of embedding research excellence into every aspect of clinical care. A world-class clinical trials program ensures access to cutting edge treatments; it generates the evidence regarding which treatments to adopt and which to cease; and it fosters a culture of curiosity, attention to detail and intellectual rigor.

Our newly-formed translational research partnership with Deakin University in mental healthcare, CHIME aims to create a dynamic ecosystem in which novel treatments and services can be designed, trialled and evaluated. CHIME will generate an evidence-base for better care for people experiencing mental illness and psychological distress.

The coming decade will see us build on a strong history of community participation. We need everyone's help to identify the most important research questions, to then answer them, and ultimately to translate our shared knowledge into better outcomes. Thus, we are striving to improve the visibility of our research program, to foster community engagement and participation, and to improve our systems for co-design and co-production of research with our consumers.

Establishing an integrated and collaborative research ecosystem is crucial. We must function as a team. Initiatives such as the Barwon Biobank and Data Lake are designed to integrate research in clinical care and facilitate low-cost data and knowledge sharing, whilst at the same time protecting the privacy of our consumers.

Our vision is that within a decade the Barwon Health and Deakin University partnership will make internationally recognised contributions to discovery, evaluation and implementation science that have a measurable impact on the health of our community. This success will be built on the integration of clinical care and research, in collaboration with our community, to solve important problems.

We hope that everyone will be a part of the journey.

Barwon Health Foundation

Zoe Waters
Executive Director,
Barwon Health
Foundation

Together with our community, the Barwon Health Foundation invests in excellence in medical services, facilities, equipment, education and research to advance health and wellbeing for all.

The Barwon Health Foundation exists to create and nurture philanthropic partnerships between the community and Barwon Health.

It is the vehicle through which individuals, community groups and organisations can contribute to Barwon Health's further development as a specialist provider of acute, rehabilitation, aged and community health care, providing the community with access to a comprehensive range of health care services.

The Foundation is also a vehicle for providing a source of funds to advance the development of clinical research conducted by staff employed by Barwon Health.

The Foundation works to develop a donor base and to explore and implement contemporary concepts of fundraising. The Foundation's role in facilitating fundraising will contribute to the provision of excellence in health care for the population in the Barwon and South-West regions of the state.

With input and direction from our health service, the Foundation fundraises for projects of greatest priority and need across Barwon Health directed towards the following objectives:

- To raise funds for the purchase of equipment and medical facilities
- To help increase patient comfort and care
- To fund medical research and scholarships undertaken by Barwon Health
- To raise funds for vital capital campaigns.

The eight key areas our Foundation will support in 2021 are:

1. Aged Care
2. Care at Home
3. Mental Health
4. Heart Health
5. Staff Wellbeing
6. Paediatric Rehabilitation
7. Palliative Care, and
8. Research and Clinical Trials

In 2019/2020, the Barwon Health Foundation raised $5.72 million through the wonderful support of our community.

Our key commitments for 2021 include funding the capital build of the $3.6m Paediatric Rehab Centre and raising $1.25 million for the Palliative Care Unit, which will include refurbishment of rooms and outdoor areas, plus a horticultural therapy research program.

In the past year, the Foundation has established Grant Rounds and has already distributed approximately $350,000 to different areas within Barwon Health for diverse needs across the health service.

Supporting research over the past twelve months, the Foundation has:

- Completed the funding of two PhD scholarships;
- Invested in CHIME (Change to Improve Mental Health) Translational Research partnership between Barwon Health and Deakin University;
- Contributed to the wonderful ongoing research of the Barwon Infant Study;
- Supported clinical trials research in the University Hospital Geelong Emergency Department;
- Committed to the seed funding of equipment and consumables for 5 PhD scholarships;
- Continued fundraising through the WAWSO group to ultimately provide funding for a postdoctoral research fellowship in cancer; and
- In June last year, in one of the most significant donations ever received by the Foundation, we announced the commitment of amazing $2.5 million by the Costa family to establish the Adrian Costa Clinical Trials Centre.

Significantly, it is the hope of the Costa family that their contribution will inspire more philanthropy for research from our community and the Adrian Costa Clinical Trials Centre will become a major focus for the Foundation's Leadership Circle group.

We thank all those in the research space who have always been so generous with their time and know it is going to be an exciting year ahead advancing philanthropic contributions to the amazing projects being conducted at Barwon Health.

To support research and the work of the Barwon Health Foundation, please get in touch with us using the following contact details:

Phone: 03 4215 8900

Email: foundation@barwonhealth.org.au

Website: www.barwonhealthfoundation.org.au

Office: 283 Ryrie Street, Geelong, VIC, 3220

Adrian Costa Clinical Trials Centre

Paul Lightfoot
Director, Adrian Costa Clinical Trials Centre

For more than 25 years, Barwon Health has collaborated with the best researchers in the industry and university system to lead and conduct clinical trials into new treatments and methods, each aiming to improve health outcomes.

More than 200 clinical trials are underway across Barwon Health's clinical trial teams, which include cardiology, intensive care, anaesthetics, psychiatric disorders, orthopaedics, infectious diseases, pharmacy, endocrinology, neurosciences, paediatrics, palliative care, emergency care, and oncology. However, there is an urgent need for improved infrastructure and systems to support and grow clinical trials capacity for our region. International competition to conduct industry-sponsored trials has increased, and in turn, the income generated for participating sites has decreased. Combined negotiating strength, economies of scale, efficient systems, adequate resources and a well-trained and enabled workforce are crucial to the growth and sustainability of our clinical trials program.

In this context, our clinical trials teams have come together with the vision of establishing a world class, centralised clinical trials service that will build our research capacity and reputation, and provide the Barwon community with access to cutting-edge, evidence-based care. **The extraordinarily generous support of the Costa family to establish the Adrian Costa Clinical Trials Centre will enable us to realise this vision.**

$1 million has been generously committed from the Costa Family for the establishment of the Adrian Costa Clinical Trials Centre, with a further $1.5 million for permanent endowment within the Barwon Health Foundation, with the interest earnt supporting the advancement of clinical trials into the future.

The Adrian Costa Clinical Trials Centre will include:

- A state-of-the-art, person centred facility;
- Equipment and skills to enhance remote/virtual participation in clinical trials;
- World-class biobanking capacity for storing and managing precious biological samples;
- World-class data management capacity;
- A facility to co-locate biostatisticians, health economists and clinician researchers;
- Training opportunities for clinical trial staff and early career researchers;
- Strong governance; and
- A business model that is sustainable and supports growth.

Since the announcement of the centre in 2020, substantial progress has been made towards its successful implementation, including:

- The 12 clinical trials groups and hospital executive have co-designed and implemented the governance model for the Adrian Costa Clinical Trials Centre.
- After a prolonged and exacting recruitment process, Mr Paul Lightfoot has been appointed as the Director of the Adrian Costa Clinical Trials Centre. Paul worked as a clinician in Regional and Metropolitan hospitals and has been involved in the conduct of Clinical Trials both in Australia and the UK for 25 years. He contributed to the establishment and development of the Clinical Trials Unit within the Epilepsy program at Australian Health, which is now internationally regarded; and played a key role in the successful restructuring of the Dementia Research Unit. Paul has contributed to the management of large transdisciplinary teams, most recently within the MRFF Frontier Health and Medical Research Initiative entitled 'The Australian Epilepsy Project', and has consulted to Industry and Government on trial design and policy regarding Epilepsy treatments. Paul brings expertise in the Human Research Ethics approval and governance processes, extensive contacts with other Clinical Trials Centres and Industry, and a commitment to our region.
- Initial stakeholder consultation has been completed to inform the plans for the Centre's fit-out.
- Detailed stakeholder consultation is underway to determine what clinical trial strengths can be maximised and what areas of unmet need can be developed with the goals of ensuring everybody the in the Geelong region can get access to as many new treatments as possible.
- We are examining ways that the Adrian Costa Clinical Trials Centre can provide education and support to the staff of Barwon Health to conduct clinical trials in a sustainable fashion.
- We are working with stakeholders to develop strategic goals for the Centre and agreed performance indicators as well as working on the development of an agreed business and operational model for the initiative.

Research Support Service

RESEARCH, ETHICS, GOVERNANCE AND INTEGRITY (REGI) UNIT

The REGI Unit facilitates the conduct of high-quality research at Barwon Health by ensuring research projects receive robust ethical review and conform with relevant National and State legislation and research guidelines.

The REGI Unit:

- 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.

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. However, funded projects that require ongoing statistical support should include the cost of statistical support as part of the project funding.

SERVICE LEADS

Dr Giuliana Fuscaldi
REGI Co-Manager

Lisa Fry
REGI Co-Manager

Dr Jason Hodge
Laboratory Research Co-Lead

Dr Luba Sominsky
Laboratory Research Co-Lead

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, as this may be the most appropriate time to consult with the data manager. Some of the data management aspects to consider include data collection/generation, storage, access and resources.

RESEARCH SUPPORT UNIT

The Barwon Health Research Support Unit 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 Geelong Centre for Emerging Infectious Diseases (GCEID) laboratory that includes Covid research, as well as contributing to the implementation of the Barwon Biobank and Data Lake initiative 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.

RESEARCH MANAGEMENT COMMITTEE

The Barwon Health Research Management Committee (RMC) meets weekly and is responsible for providing efficient and rigorous governance oversight of research in our service. The RMC comprises the Chief Medical Officer, the Director of Research, Legal Counsel, the Director of Adrian Costa Clinical Trial Centre, a representative from the Clinical Trials Advisory Committee and a research governance officer (RGO) from REGI.

CLINICAL TRIALS ADVISORY COMMITTEE

The Clinical Trials Advisory Committee meets regularly to provide clinical trial strategic advice to Barwon Health and build capacity to undertake high-quality clinical trial research.

Core CTAC membership comprises clinical trial experts across the clinical disciplines, the Director of Adrian Costa Clinical Trial Centre, as well as our Research Ethics, Governance and Integrity Unit Manager.

Barwon Health Human Research Ethics Committee

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

MEMBERSHIP

Chair: Helen Wellington

Alison Mitchell
Cameron Osborne
Damien Elsworth
Darryl Towers
Debra Kerr
Greg Weeks
Ian McKenzie
Jackie Hutchinson
Jessica Snir
Katherine Snowden
Lauren Mahoney
Louise Scerri
Lynsey Blakston
Megan Turner
Olivia King
Phil Emery
Renee Otmar
StellaMay Gwini
Tracey Caulfield

Open Research Projects

Research Projects Monitored by REGI in 2020 (new & ongoing)

Research Type nominated by Researcher	Projects monitored in 2020
Basic Applied Research (e.g. Laboratory Work)	10
Clinical Research	145
Clinical Trial Device	17
Clinical Trial under CTN/CTX Scheme	147
Epidemiological Research	44
Psychological	9
Registry/ Database	39
Review/ QA	241
Section 19(5) (Authorised Prescriber)	5
Social Science	22
Qualitative Research	14
Public Health	26
Total	**719**
Within total, number of new projects	**109**

New Projects Approved in 2020

New Project Types	New Projects Accepted 2020	Explanatory Notes
New projects approved by REGI via National Mutual Acceptance Scheme	38	Multi-site project where Barwon Health is a participant. Ethics approval has been granted by lead organisation. REGI provides governance approval.
New projects approved by BH HREC	31	Single site projects or multi-site projects where BH is lead organisation. Risk deemed low or greater than low.
New projects approved by REGI	40	Single site project. Risk deemed negligible.
Total new projects	109	

2020 Investigator Initiated research funding

Research type	Total project funding in 2020 (includes other project sites)	Expected portion of total funding in 2020 directed to Barwon Health	Number of projects
Clinical	$3,180,000	$907,000	30
Epidemiological	$963,000	$643,000	9
Public Health	$2,017,000	$166,000	4
Review/ QA	$42,000	$42,000	2
Grand Total	**$6,202,000**	**$1,758,000**	**46**

Allied Health Research and Translation

RESEARCH LEAD

Dr Olivia King
Allied Health Research & Translation Co-Lead

OVERVIEW

The Allied Health service represents a diverse inter-professional group of clinicians that work across all settings at Barwon Health and within numerous programs, services and speciality clinics. Some of the allied professions include physiotherapy, occupational therapy, speech pathology, dietetics, social work, podiatry, psychology, audiology and exercise physiology.

The Allied Health Research and Translation co-leads have a conjoint appointment between Barwon Health and South West Healthcare. The role supports research capacity development within the Allied Health team, across the Barwon South West Region.

There is significant diversity in the research capacity and activity across the service, given its diversity of professions, settings, programs and clinics within which allied health staff work across Barwon Health.

Many allied health clinicians are engaged in collaborative research teams and projects that are led by medical or nurse researchers. Consequently, Allied Health is not a typical "research unit". While the research leads play an important role in supporting research capacity development and promoting research translation, they are directly involved in only a few research projects.

There are more than 50 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

KEY RESEARCH AREAS

- Prehabilitation in Cancer Care pilot program
- Implementing routine mental health screening for community-dwelling adults by allied health clinicians
- Barriers and facilitators for Medication Assisted Treatment for Opioid Dependence patients to engage with take home naloxone: an explorative study
- Informal inter-professional interactions in allied health
- Telehealth utilisation for undergraduate student clinical supervision: Enablers, barriers and lessons for the future
- Countdown to Discharge: a physiotherapy intervention
- Nutrition Prescription Chart
- Exploring consumer and clinician experiences of an outreach service for people living with complex needs
- Interprofessional communication workshops during undergraduate workplace learning in a regional health service
- Virtual delivery of rehabilitation
- Impact of allied health research and translation lead positions on professional social networks in Victorian allied health services

COLLABORATING ORGANISATIONS

- La Trobe University
- Institute of Physical Activity and Nutrition (IPAN)
- Deakin University
- Western Health
- IPC Health
- Gateway Health
- South West Healthcare

RESEARCH GRANTS

- 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
- Western Alliance - Asymptomatic peripheral arterial disease (PAD): A community based multidisciplinary early intervention vascular clinic - A feasibility study: 2021-2022

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.

Our 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 policy makers. Visit the ANZCA website for descriptions of trials and links to publications.

KEY RESEARCH AREAS

- The PANACEA Trial - preventing post-operative cognitive dysfunction
- The ROCKet Trial – reducing chronic post-surgical pain
- The Chewy Trial – preventing post-operative nausea
- The NATO Study - effect of iron-deficiency on recovery in colorectal patients
- The ITAS Trial – improving outcomes in patients with anaemia
- The DECS-II Trial – improving recovery after cardiac surgery
- The TRIGS Trial – improving recovery after gastrointestinal surgery
- The RELIEF Trial – recovery from major abdominal surgery
- The BALANCED Trial – anaesthetic depth and surgical outcomes

RESEARCH LEADS

Dr Melissa Formica
Research Fellow

Bianca Leigh
Research Nurse

Rachel Fiddes
Research Nurse

Katie Bishop
PhD student

RESEARCH TEAM

Research staff

- Dr Andrew Marriott, Group Leader
- Dr Andrew Iliov, Group Leader
- Dr Claire Furyk, Group Leader
- Dr Cameron Osborne, Group Leader
- Dr Melissa Formica, Research Fellow
- Mrs Bianca Leigh, Research Nurse
- Ms Rachel Fiddes, Research Nurse

Research Students

- Ms Katie Bishop, PhD

COLLABORATING ORGANISATIONS

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

Barwon Medical Imaging

RESEARCH LEAD

Dr Steve Landers
Director

OVERVIEW

Barwon Medical Imaging (BMI) provides high-quality accessible imaging services and interventional radiology services for Geelong and the surrounding region. Our commitment to conducting and supporting research is key to our ability to provide innovative, high-quality services.

BMI currently provides the medical imaging and specialist reporting required for more than 50 clinical trials across Barwon Health and other institutes.

BMI's own research focus is in the area of new uses for interventional radiology. Interventional radiology uses medical imaging (eg MRI, CT and ultrasound) to guide minimally invasive surgical procedures that diagnose, treat, and cure many kinds of conditions. Our research studies the application of interventional radiology for easing pain from chronic conditions where traditional methods have been unsuccessful.

Other areas of research include studying the use of FDG PET scans, PSMA scans and radioiodine treatment for thyroid cancer, microembolisation for abdominal bleeding and ultrasound for query appendicitis.

KEY RESEARCH AREAS

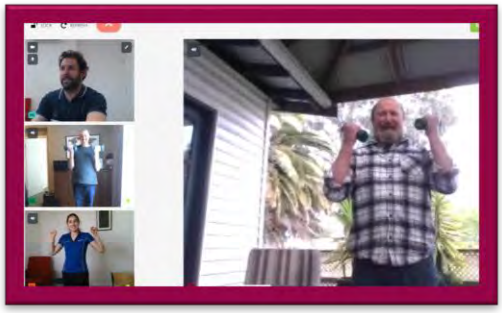
- Using Interventional Radiology to relieve pain from Plantar Fasciitis and Knee Osteoarthritis

RESEARCH TEAM

- Dr Steve Landers, Director
- Dr Andrew Hely, Clinician researcher
- Dr Ben Harrison, Clinician researcher
- Dr Shane Lee, Clinician researcher
- Dr Dickson Ma, Clinician researcher
- Dr Stephen Gill, Clinician researcher

COLLABORATING ORGANISATIONS

- RANZCR
- B-CORE



Barwon Health Palliative Care Research awarded Western Alliance Project Grant

Research News: December 2020

Congratulations to the Barwon Health Palliative Care Research Group, which has received a $10,500 research grant from Western Alliance to study the rapid adoption of telehealth in palliative care due to COVID-19.

In recent years, the use of telehealth has been promoted across healthcare settings including palliative care. The advantages for both patients and health services are numerous including improved access to care for frail and remote patients, improved access to multi-disciplinary specialist staff and cost savings. The COVID-19 pandemic has brought the use of telehealth to the fore, as many people have been unable to interact directly with health care professionals.

For community-based palliative care services, this has meant a sudden and dramatic change in practice away from a predominantly face-to-face model of care to one that significantly incorporates telehealth. While Australia has largely avoided the tragic scenes we have witnessed overseas, it seems likely that future healthcare provision will not be "business as usual" but rather a blended model involving both direct and indirect contact with health care professionals.

Barwon Health Investigators Dr Peter Eastman, Anna Dowd, Jacqui White, Matthew Ely and Jill Carter will evaluate palliative care patient and health professional satisfaction with telehealth in the context of the sudden changes caused by COVID-19 and investigate preferences around what modes of service delivery people feel work best.

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), 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
- Dr Margaret Rogers, Statistician, Research Lead
- Bernard Howard, Data Collection Officer
- Heather Cameron, Service Development Officer
- Leesa Jenkins, Service Development Officer
- Angela Burns, Administration Officer
- Nathalie Davis, Service Development Officer
- Cate O'Kane, Project Officer

Clinical Support Team

- A/Professor Philip Campbell
- Dr Graham Pitson

RESEARCH LEADS

Dr Margaret Rogers
Statistician/Research Lead

Alison Patrick
Program Manager

Leigh Matheson
Health Information Manager

- A/Professor Ian Collins
- Dr Cheng Hon Yap
- Dr Madhu Singh
- Dr Maitham Mathlum

COLLABORATING ORGANISATIONS

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

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 20 years. Up to 300 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 20 year period due to their positive experience.

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

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.

A/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.

RESEARCH LEADS

A/Professor John Amerena
Director of Cardiology

Karen Fogarty
Research Manage

Our unit manager is the National Study Coordinator for Australia and sits on a global study coordinator steering committee. In addition, the CRU is an active member of the Melbourne Interventional Group (MIG) Registry.

KEY RESEARCH AREAS

- SELECT Trial (cardiovascular disease risk)
- HEART FID Trial (heart failure)
- AMGEN VESALIUS Trial (cholesterol)
- AEGIS II Trial (acute coronary syndrome)
- PARADISE Trial (post heart attack)

RESEARCH TEAM

- Associate Professor John Amerena, Director of Cardiology Research
- Karen Fogarty, Research Manager
- Susan Ryan, Study Coordinator
- Donna Soraghan, Study Coordinator
- Kate Sanders, Study Coordinator
- Anne Welsh, Study Coordinator
- Krystle Wilson, Study Coordinator

COLLABORATING ORGANISATIONS

- Deakin University
- Monash University
- Melbourne Interventional Group Registry

Centre for Quality and Patient Safety Research

RESEARCH LEAD

Professor Trisha Dunning
Director

OVERVIEW

The Centre for Quality and Patient Safety Research-Barwon Health Partnership is uniquely positioned to tackle some of the most salient and complex challenges related to quality and patient safety in healthcare.

Our researchers have expertise in evaluation, developing and implementing clinical guidelines, generating knowledge for evidence, supporting knowledge translation efforts and utilising a range of research methods.

KEY RESEARCH AREAS

Our innovative and collaborative research focuses on quality of care and patient safety and spans four overlapping domains:

1. Supporting older people with chronic conditions.
2. Translating evidence about dignity, privacy and choice into care.
3. Enhancing communication in care.
4. Identifying and addressing the risk of avoidable harm in hospital.

RESEARCH TEAM

Research staff

- Professor Trisha Dunning, Director
- Ms Georgie Lee, Research Assistant

Research Students

- Sara Campolonghi, PhD
- Sharyn Milnes, PhD
- Giuliana Murfett, PhD
- Amanda Frier, PhD
- Michelle Manning, PhD
- Trish Mant, PhD

COLLABORATING ORGANISATIONS

- Deakin University

- Diabetes Victoria
- Australian Diabetes Educators Association
- National Association of Diabetes Centres
- National Ageing Research Institute
- Continence Foundation of Australia

Barwon Health Clinical Trials uncover a new treatment for chronic leukaemia

Research News: September 2020

The Barwon Health Haematology and Oncology Trials Team (HOTT) has contributed to the release of a new treatment for people suffering from a common form of chronic leukaemia.

HOTT led the recruitment and management of the local phase 3 clinical trial of Calquence, which was tested across the world and was found to be a useful treatment for chronic lymphatic leukaemia (CLL), particularly in patients with relapsed disease. The treatment has just been listed through the Pharmaceutical Benefits Scheme (PBS), meaning it is available to patients by prescription at an affordable price. Local patients enrolled in the trial included Mr David Selway-Hoskins. As Mr Selway-Hoskins, 76, told the Geelong Advertiser, the drug's listing on the PBS was "absolutely" a good thing, and he will continue to take Calquence after its PBS listing.

Barwon Health Director of Cancer Services and Head of Haematology A/Prof Philip Campbell said the listing was a testament to the importance of clinical trials. "It's very exciting for patients, and essentially provides people with relapsed disease another treatment option in oral form."

Child Health Research Unit

OVERVIEW

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 1000 days of life".

At the Child Health Research Unit (CHRU), we study the origins of disease and design strategies to provide our children with a healthy start to life. Our research brings together community effort and some of our best research minds; combining people-power with cutting-edge science.

RESEARCH LEAD

Professor Peter Vuillermin
Director

KEY RESEARCH AREAS

- The Barwon Infant Study (BIS)
- The Environmental Determinants of Islet Autoimmunity (ENDIA) Study
- The OM85 Trial of childhood asthma treatment

RESEARCH TEAM

Research staff

- Professor Peter Vuillermin, Director
- Nicola Cooley, Executive Assistant
- Nakita Clements, Project Coordinator
- Dr Martin O'Hely, Bioinformatician
- Kate Hardiman, Team Leader
- Samantha Kernaghan, Research Assistant
- Georgie Thompson, Research Assistant
- Mikayla Hoffman, Research Assistant
- Pip Walsh, Research Assistant
- Emily Carpenter, Research Assistant
- Dr Lawrence Gray

Research Students

- Yuan Gao, PhD
- Samantha Dawson, PhD
- Liz Senn, PhD

- Lisa Bell, PhD
- Dr Jessica Costa-Pinta, PhD
- Viet Dang, PhD

COLLABORATING ORGANISATIONS

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

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 - Maternal carriage of Prevotella during pregnancy influences offspring innate immune responses and asthma at age 7: 2018-2021
- NHMRC - Investigating early life exposure to plastic products in Australia and subsequent neurodevelopmental effects: 2018-2020
- NHMRC - Identifying Novel Lipid and Genetic Signatures of Metabolic Disease in Early Childhood: 2017-2020
- NHMRC - A longitudinal population-based study of the development of Cardiovascular risk in early childhood: 2019-2024

Change to Improve Mental Health (CHIME) Translational Research Partnership

OVERVIEW

The Change to Improve Mental Health (CHIME) Translational Research Partnership is a newly-formed partnership between Deakin University and Barwon Health. CHIME aims to deliver evidence-based, person-centred mental health service improvements.

CHIME takes co-creation approach, embodying co-design, co-production, co-implementation and co-evaluation. The ultimate aim is to create a 'Listening and Learning Mental Healthcare System' for the Barwon region, enabling continuous improvement in the delivery of mental health services to improve outcomes for consumers and carers.

CHIME combines the clinical strengths of Barwon Health, with the research and innovation strengths of Deakin University, as well as an emerging lived-experience workforce and consumers and carers in the co-creation of these new service models and translation of new products, services and practices into the mental healthcare sector.

Leveraging the unique advantages of the Barwon Region, CHIME's Listening and Learning Mental Healthcare System will support a 'living-lab' in which mental health system reforms, therapies, technologies and programs can be developed, trialled, evaluated and implemented. To do this, CHIME works in partnership with the Adrian Costa Clinical Trials Centre and a number of Deakin University Institutes including IMPACT and the Institute for Health Transformation.

CHIME also seeks to embed world-class innovation that will be an attractor for outstanding mental health clinicians and clinician researchers to the Barwon Region who will inform and drive the development of new training and workforce practices.

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

RESEARCH LEADS

Renae Carolin
Interim Director

Professor Steve Moylan
Clinical Director, MHDAS

- A shared and enduring culture of continuous improvement

KEY RESEARCH AREAS

- Creating Healthy Places through Biophilic Design Research
- Evaluating the transition to telehealth for mental health services during COVID-19
- The role of diet and exercise as an effective treatment for COVID-19 related depression
- Data Linkage Feasibility Study on Youth Mental Health in the Barwon Region

COLLABORATING ORGANISATIONS

- Deakin University
- Western Vic PHN
- Ballarat Health
- South Western Health
- Victoria Police
- City of Greater Geelong
- G21
- Department of Health and Human Services

Emergency

OVERVIEW

RESEARCH LEAD

Dr Julian Stella
Head of Research

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 have been undertaken investigating both acute emergencies, diagnostics, treatments and public health issues around emergency presentations.

A wide range of methodologies have been employed in previous and current research including quantitative, as well as qualitative and mixed methodology approaches. The wide range of clinical care provided in the University Hospital Geelong Emergency Department has lent itself to a broad 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.

KEY RESEARCH AREAS

- The Driving Change Project
- AFL Womens' Injury Study
- PREDICT network trials
- Childhood Obesity Project
- COVID-19 Research

RESEARCH TEAM

- Dr Michael Sheridan, Director of Emergency Department
- Dr Bruce Bartley, Deputy Director Emergency Department
- Dr Julian Stella, Head of Research in the Emergency Department
- Dr Jeremy Furyk, Staff specialist and researcher
- Dr Michael Ragg, Staff specialist
- Dr Stephen Gill, Physiotherapist and researcher
- Nicole Lowry, Research Assistant

COLLABORATING ORGANISATIONS

- Ambulance Victoria
- Australasian College of Emergency Medicine
- AFL
- B-CORE
- Deakin University
- Epworth HealthCare
- PREDICT
- Regional healthcare groups including South West Healthcare and Colac Area Health
- St John of God Health Care

RESEARCH GRANTS

- NHMRC - Driving Change: 2018-2020
- NHMRC - The Kids Are Not OK: 2019-2021
- AFL - Injury profiles of female Australian Rules Football players: a survey of Geelong and South-Western Victoria: 2019-2021

Endocrinology and Diabetes

OVERVIEW

The main focus of the Endocrinology and Diabetes Research team is 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.

RESEARCH LEAD

Professor Mark Kotowicz
Director

Our Endocrinology Clinical Trial Unit (CTU) undertakes clinical trials in disorders of bone and calcium as well as diabetes and obesity-related studies. The CTU is the Australian lead site for a study of early intervention in Paget's disease of bone as well as studies examining new therapeutics in the management of diabetes. The CTU is national lead on the majority of its commercially sponsored clinical trials and is renowned for its start-up timelines.

KEY RESEARCH AREAS

- Geelong Osteoporosis Study
- Skeletal Outcomes Following Intensive Care (S0Fter)
- Early intervention for Paget's disease of bone (ZiPP study)
- FAME 1 Eye Study
- AI assisted diagnosis of Diabetic Retinopathy
- Sodium-Glucose Co-transporter 2 Inhibitors and Diabetic Ketoacidosis
- The Environmental Determinants of Islet Autoimmunity (ENDIA) Study

RESEARCH TEAM

Research staff

- Professor Mark Kotowicz, Director
- Dr Shannon McCarthy, Clinical Trial Principal Investigator
- Dr Aaron Choy, Endocrine Fellow
- Dr Anna Anderson, Endocrine Fellow
- Alana Sarah, Clinical Trials Unit Manager
- Bree Sarah, Clinical Trials Unit Manager

- Josephine Chambers, Clinical Trials Nurse Coordinator
- Kate Ellis, Clinical Trials Nurse Coordinator
- Fahriya Zandari, Clinical Trials Nurse Coordinator

Research Students

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

COLLABORATING ORGANISATIONS

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

Geelong Centre for Emerging Infectious Diseases (GCEID)

OVERVIEW

RESEARCH LEAD

Professor Soren Alexandersen
Director

The Geelong Centre for Emerging Infectious Diseases (GCEID) has a "one health" approach that delivers innovative research outcomes and solutions to the risks posed by emerging infectious diseases.

GCEID combines specialised research facilities and highly skilled staff to combat infectious diseases through a collaborative, multidisciplinary partnership between Barwon Health, Deakin University and CSIRO – Australian Centre for Disease Preparedness.

GCEID is led by Professor Soren Alexandersen, one of the world's leading experts on "one health" – the multidisciplinary approach to managing infectious diseases in people, animals and the environment.

The priority of GCEID activity is to conduct and translate emerging infectious diseases research from the bench to the environment or bedside.

In addition to the work done at the core facilities, GCEID is also an important hub for facilitating collaboration and coordination of swift research on emerging infectious diseases, including diagnostics, vaccines, therapeutics, and epidemiology.

KEY RESEARCH AREAS

- Tackling COVID-19
- Investigating a virus that causes meningitis-/sepsis-like illness in infants
- Next generation sequencing of clinical samples
- Investigating antimicrobial resistance (AMR) genes in clinically healthy humans and animals
- Animal influenza and other animal viruses
- The screening of wild birds for the presence of coronaviruses

RESEARCH TEAM

Research staff

- Professor Soren Alexandersen, Centre Director

- Dr Jason Hodge, Laboratory Manager
- Dr Anthony Chamings, Post-Doctoral researcher

Research Students

- Jessy Vibin, PhD
- Tarka Raj Bhatta, PhD
- Aseel Al-Araji, PhD
- Berta Blanch Lazaro, PhD

COLLABORATING ORGANISATIONS

- Deakin University
- Barwon Health
- CSIRO – Australian Centre for Disease Preparedness
- Victorian Infectious Diseases Reference Laboratory
- University of Melbourne
- University of Copenhagen
- Australian Clinical Labs
- NHMRC CRE APPRAISE
- Scolexia Animal Health Consultancy

RESEARCH GRANTS

- NHMRC - Australian Partnership (for) Preparedness Research on InfectiouS (disease) Emergencies (APPRISE):2016-2022
- ARC - Genomic diversity, tolerance and ecology of wildlife disease:2018-2021

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 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 AM OBE ChM FRCSEd FRACS, General Surgeon, Academic
- Professor Glenn Guest MBBS FRACS BSc (Hons), General Surgeon, Academic
- Associate Professor Douglas Stupart MBChB PhD FCS (SA) FRACS, General Surgeon, Academic
- Dr Sonal Nagra MBBS MMedSurg FRACS, General Surgeon, Academic
- Dr Eileen Moore BSc(Hons) PhD (Melb) PGrad Stat CS InfSystMgt (Harvard) ForPsy (Curtin), Research Fellow, Academic
- Ms Christine Campbell, BNurs, General Surgery Clinical Information Coordinator
- Ms Stephanie Kempton BBSc(Hons) MPsych(Neuro) CCN MAPS, Trauma Audit Coordinator
- Mrs Anne Vandewater AdvDip(Mgt) CPM AAPM DipBus, Executive Assistant to the Chair of Surgery

Research Students

- Dr Andrew Cheng, PhD
- Dr Wendy Crebbin, PhD
- Dr Amelia McGuinnes, PhD
- Dr Suat Ng, Master of Surgery
- Dr Louis Scarrold, Master of Surgical Research
- Dr Hamish Morgan, 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 Eileen Moore
Research Fellow, Academic

- Dr Steve Lau, Master of Surgical Research
- Dr Amelia Pearce, Master of Surgical Research
- Dr Anh Vu, Master of Surgical Research
- Dr Thomas Marcus, Master of Surgical Research

COLLABORATING ORGANISATIONS

- Royal Australasian College of Surgeons (RACS)
- Deakin University
- The University of Melbourne
- Harvard University
- The University of Edinburgh
- Epworth Hospital Geelong
- Institute for Intelligent Systems Research and Innovation
- The Royal Children's Hospital Melbourne

Haematology and Oncology Trials Team (HOTT)

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 (ALCC) – 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.

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

RESEARCH LEADS

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

Dr David Campbell
Head of Medical Oncology

Dr Graham Pitson
Head of Radiation Oncology

KEY RESEARCH AREAS

- Skilled Intern Program

RESEARCH TEAM

Director

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

Haematology Investigators

- A/Professor Philip Campbell, Head of Haematology
- Dr Adam Friebe
- Dr David Kipp
- 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 Graham Pitson, Head of Radiation Oncology
- Dr Michael Francis
- Dr Andrew Hui
- Dr Maitham Mathlum

Haematology & Oncology Trials Team

- Scott Betteridge, Clinical Trial Coordinator
- Sonja Gauci, Clinical Trial Coordinator
- Melanie Giddings, Clinical Trial Coordinator
- Katrina Golden, Clinical Trial Coordinator
- Sharon Jones, Clinical Trial Coordinator
- Lisa McGrenaghan, Clinical Trial Coordinator
- Mandy McPhee, Clinical Trial Coordinator
- Iwona Riches, Clinical Trial Coordinator
- Bianca Sawyer, Clinical Trial Coordinator
- Lauren Smith, Clinical Trial Coordinator
- Adele Stronach, Clinical Trial Coordinator
- Andrea Dozzi, Administrative Assistant
- Katherine Snowden, Clinical Trial Pharmacist

SKILLED Interns

- Emma Squires, Clinical Trials Assistant
- Beena Jeevanraj, Clinical Trials Coordinator

COLLABORATING ORGANISATIONS

- Victorian Comprehensive Cancer Centre
- Cancer Council Victoria
- Cancer Trials Australia
- NHMRC
- Australasian Leukaemia & Lymphoma Group
- Australian Lung Cancer Trials Group
- Breast Cancer Trials
- ANZ Gynaecological Oncology Group
- ANZ Urogenital and Prostate Cancer Trials Group
- Clinical Oncology Society of Aust
- Medical Oncology Group of Australia
- The Trans Tasman Radiation Oncology Group
- Australasian Gastro-Intestinal Trials Group

Infectious Diseases

OVERVIEW

The Department of Infectious Diseases Research Team, in partnership with the Geelong Centre for Emerging Infectious Diseases (GCEID), 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

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, which is regarded as one of the leading hubs for clinical trials in the development of new treatments and technologies over the past 25 years, with the contribution of thousands of volunteers. The CTU is renowned for its start-up timelines and is national lead on the majority of its global commercially-sponsored clinical trials.

KEY RESEARCH AREAS

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

RESEARCH TEAM

Research staff

- Professor Eugene Athan, Director
- A/Professor Daniel O'Brien, Deputy Director
- A/Professor Deb Friedman, Infectious Diseases Physician
- Dr Andrew Hughes, Infectious Diseases Physician

- Dr Amanda Wade, Infectious Diseases Physician
- Dr Sarah Huffam, Infectious Diseases Physician
- Dr Aaron Walton, Infectious Diseases Physician
- Dr Cameron Jeremiah, Infectious Diseases Physician
- Dr Raquel Cowan, Infectious Diseases Physician
- Ms Maricar Mesoga, Administrative support
- Dr Nilakshi Waidyatillake, Epidemiologist
- Dr Christine Roder, Research Assistant
- Alana Sarah, CTU Manager
- Bree Sarah, CTU Manager
- Fahriya Zandari, Clinical Trial Coordinator
- Jo Chambers, Clinical Trial Coordinator
- Kate Ellis, Clinical Trial Coordinator

Research Students

- Christine Roder, PhD
- Darcie Cooper, PhD
- Selorm Avemegah, PhD
- Carly Botheras, PhD
- Rochelle Hamilton, PhD
- Mitchell Clements, Honours
- Brodie Tweeddale, Honours

COLLABORATING ORGANISATIONS

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

RESEARCH GRANTS

- DHHS - The long-term physical and psychological consequences of COVID-19 infection: a comparative observational study in Regional Victoria: 2020-2021

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 200 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.

RESEARCH LEAD

Professor Michael Berk
Director

RESEARCH THEMES

- Clinical Interventions
- Novel Treatment Discovery
- Fundamental Biosciences
- Population Health
- Food and Mood
- Molecular Medicine
- Mental Health Disorders and Neuroscience

RESEARCH TEAM

Directors

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

Research Theme Leads

- Clinical Interventions, Associate Professor Olivia Dean
- Novel Treatment Discovery, Professor Ken Walder
- Fundamental Biosciences, Professor Tania De Koning-Ward
- Population Health, Professor Julie Pasco
- Food and Mood, Professor Felice Jacka

- Molecular Medicine, Professor Sean McGee
- Mental Health Disorders and Neuroscience, Professor Michael Berk

COLLABORATING ORGANISATIONS

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

RESEARCH GRANTS

- Department of Health and Human Services - Victoria - Data Analysis: Review of Food Standards in Victorian Public Hospitals and Aged Care Facilities: 2020-2020
- Barwon Health - Targeting site specific improvements of clinical trial operational processes - Stephanie Cowdery: 2020-2020
- Victorian Comprehensive Cancer Centre - Targeting site specific improvements of clinical trial operational processes - Stephanie Cowdery: 2020-2020
- Barwon Health - Targeting site specific improvements of clinical trial operational processes - Stephanie Cowdery: 2020-2020
- NHMRC - Nutritional Psychiatry: extending the evidence and ensuring translation: 2021-2025
- Roberts Family Foundation - Nutritional Psychiatry: extending the evidence and ensuring translation: 2020-2020
- The Serp Hills Foundation - Nutritional Psychiatry: extending the evidence and ensuring translation: 2020-2020
- The JTM Foundation - Nutritional Psychiatry: extending the evidence and ensuring translation: 2020-2020
- Waterloo Foundation - Child Development - Healthy Parents Healthy Kids: Development of a dietary educational program for pregnant women: 2020-2022
- Epworth Foundation - understanding the basis of the association between maternal carriage of Prevotella during pregnancy and protection against food allergy in the baby: 2020-2021
- Western District Health Service - National Centre for Farmer Health research: 2020-2023
- Australasian Society of Bipolar and Depressive Disorders - Development of Depression Assist (previously) Icare4depression, A Psychoeducation Website: 2019-2020
- GMHBA - Depression Assist Partnership Project: 2020-2022
- Department of Foreign Affairs and Trade DFAST - Stronger Surveillance and Systems Support for Rapid Identification and Containment of Resurgent or Resistant Vector Borne Pathogens in Papua New Guinea (STRIVE PNG): 2020-2021
- DHHS - The long-term physical and psychological consequences of COVID-19 infection: a comparative observational study in Regional Victoria: 2020-2021

Intensive Care

OVERVIEW

Barwon Health's Intensive Care Unit (ICU) is a 24-bed unit with an active profile in clinical research. Research is an integral component of the Intensive Care Unit at Barwon Health, and every patient is screened for eligibility to be enrolled in a clinical trial. Conducting research in the critically ill requires particular skill, experience and sensitivity. Our dedicated and experienced ICU research nurses are a pivotal interface between clinicians, patients, families, coordinating centres and hospital research governance processes. Research in ICU has grown significantly and we have participated in more than 20 clinical trials over the past five years.

RESEARCH LEAD

Dr Matthew Maiden
Head of ICU Research

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.

KEY RESEARCH AREAS

- Skeletal Outcomes after Intensive Care
- Outcomes of Haematology Oncology and Critical Illness
- Investigator Initiated Collaborative clinical trials
- Goals of patient care (iValidate)
- Patient Reported Outcomes and Experiences of Critical Illness

RESEARCH TEAM

Research staff

- Matthew Maiden, Head of ICU Research / Safety / Quality
- Claire Cattigan, Director ICU
- A/Professor Neil Orford, Senior specialist intensive care
- Michelle Horton, ICU Research Nurse
- Jemma Trickey, ICU Research Nurse

Research Students

- Allison Bone, Doctor of Nursing

COLLABORATING ORGANISATIONS

- Deakin University
- Monash University
- University of Adelaide
- La Trobe University
- Australia & New Zealand Intensive Care Society – Clinical Trials Group
- College of Intensive Care Medicine
- South Australian Health and Medical Research Institute
- Australia & New Zealand Intensive Care Society – Research Centre
- The George Institute for Global Health

RESEARCH GRANTS

- MRFF - Bone Loss Prevention with Zoledronic Acid or Denosumab in Critically Ill Women: 2020-2025

Can gum can help patients with post-operative nausea?

Monday, 01 June 2020

Is chewing gum the answer to debilitating post-operative nausea? The Barwon Health Anaesthetics Research Team is participating in the Australian and New Zealand College of Anaesthetists (ANZCA) funded Chewy Trial to find out.

Up to a third of surgical patients suffer from severe nausea, retching and vomiting following an operation, and it seems women have these symptoms more than men. Early data suggests a simple and cheap stick of peppermint gum chewed for about 10 minutes may be as effective as anti-nausea drugs during recovery. A small pilot trial found that chewing gum could overcome three out of four cases of nausea.

Oral Health

OVERVIEW

Oral health is essential to general health and well-being 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
- Pain free dentistry for children: The Hall Technique
- Redesigning the forefront of emergency dental care
- A deliberate reduction of antimicrobials prescribed in the public community dental clinic

RESEARCH TEAM

Research staff

- 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

- Child and Community Wellbeing Unit
- University of Melbourne
- La Trobe University
- Dental Health Services Victoria
- Australian Network for Integration of Oral Health

Gut bacteria linked to anxiety-like behaviours in children

Research News: June 2020

The Barwon Infant Study (BIS) – a collaboration between the Barwon Health Child Health Research Unit, Deakin University and the Murdoch Children's Research Institute – is the first to show that children with a lower amount of Prevotella at age one are more likely to have anxiety-like behaviours at two.

The research team (pictured) examined data from 201 children, analysing faecal samples at one, six and 12 months of age, then measuring behavioural outcomes at two years.

They found children with a lower abundance of the bacteria Prevotella in their poo at 12 months of age had a higher prevalence of anxiety-like behaviours, including shyness, sadness and an internal focus, an indicator they may be at higher risk of going on to develop childhood anxiety.

Dr Amy Loughman said the study also added to the growing evidence supporting the role of the infant gut microbiota for neurodevelopment and mental health in later life. In previous cross-sectional studies, Prevotella abundance has been associated with both autism and Parkinson's disease.

The research team now hopes to build further evidence to consider Prevotella as a gut bacteria key to both identifying health risk, and potentially, as an intervention to improve health outcomes.

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

OVERVIEW

The Barwon Centre for Orthopaedic Research and Education (B-CORE) is one of the most broad and active research groups dedicated to orthopaedic musculoskeletal health research in Australia. B-CORE is a member of the Institute for Mental and Physical Health and Clinical Translation (IMPACT).

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.

KEY RESEARCH AREAS

- Shoulder Conditions & Surgery
- Joint replacement surgery including the Barwon Joint Registry
- Aussie Rules Football Injuries
- Biokin wireless motion capture device

RESEARCH TEAM

Research staff

- Professor Richard Page, Director
- Dr Stephen Gill, Senior Research Fellow

RESEARCH LEADS

Professor Richard Page
Director

Ms Sally Beattie
Research Manager

Dr Stephen Gill
Senior Research Fellow

- Dr Aaron Fox, Research Fellow
- Ali Jordan, Personal Assistant to Professor Page
- Sally Beattie, Research Manager
- Amanda Cowland, Data Coordinator
- Laura Tsourlenes, Data Coordinator

Research Students (Deakin University)

- Honours Students
    - Anusha Budehal
    - Lambros Anagnostelos
- Masters of Surgical Research Candidates
    - Dr Nicholas Paltoglou
    - Dr Hugh Gillies
    - Dr Anna Dargan
- PhD Candidates
    - Mr Nick Emerson, Institute of Frontier Materials
    - Dr Sam Lynskey, Orthopaedic Surgery
- Post-Doctoral
    - Dr Darcie Cooper, PhD

COLLABORATING ORGANISATIONS

National

- ACDI Collaboration / Western Alliance
- AOA National Joint Replacement Registry
- Australian and New Zealand Hip Fracture Registry
- Shoulder and Elbow Society of Australia
- Australian Orthopaedic Association
- Australian Football League
- Deakin University
- Epworth HealthCare
- La Trobe University
- Monash University
- University of Melbourne, Dept of Biomedical Engineering
- St John of God Health Care
- University of NSW
- Victorian Orthopaedic Trauma Outcomes Registry
- Victorian Orthopaedic Research Trust

International

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

RESEARCH GRANTS

- Australian Orthopaedic Association Research Foundation - Clinical biomarker shoulder study: transcriptomic differences between osteoarthritis of the shoulder, capsulitis and rotator cuff tears: 2021 -2023
- Australian Orthopaedic Association Research Foundation - Rotator Cuff Biology and Biomarker Shoulder Study (CuBA Study): 2018 to 2020
- Australian Football League - Injury profiles of female Australian Rules Football players: a survey of Geelong and South-Western Victoria (AFLW Injury Study): 2018 to 2020
- Deakin University - Gender differences in lower limb biomechanics in Australian Football players: 2021
- Australian Orthopaedic Association Research Foundation - Optimising Biofilm Analysis in Orthopaedic Prosthetic Joint Infections: 2017 -
- De Puy Orthopaedic Fellowship: 2006 - 2021
- Victorian Orthopaedic Research Trust - The burden of shoulder pain in younger people presenting to orthopaedic outpatient clinics: 2017 -
- Canadian Institutes of Health Research - Advancing the Care of Patients with Musculoskeletal Injuries Worldwide through Multi-National Research Initiatives: 2016 to 2023
- NHMRC - Predicting fracture outcomes from clinical Registry data using Artificial Intelligence Supplemented models for Evidence-informed treatment (PRAISE) study: 2021 - 2024

IMPACT and Barwon Health MHDAS testing diet and exercise to treat COVID-19 related depression

Research News: November 2020

A new collaboration between Barwon Health and Deakin University researchers is testing the powerful potential of food and physical activity to restore mental well-being among people feeling distressed by the COVID-19 pandemic.

The Geelong-based trial, by the Barwon Health Mental Health, Drug and Alcohol Services (MHDAS) and the Heart and Mind Research Group at IMPACT, will deliver the 'CALM' telehealth program, designed to reduce the mental health symptoms in adults with elevated psychological distress.

The trial, funded through a MRFF COVID-19 Mental Health Research grant, will directly evaluate the health impacts and the cost-effectiveness of the CALM program in comparison with established psychotherapy in patients presenting to Barwon Health via the Emergency Department or MHDAS.

IMPACT Heart and Mind Research Director Associate Professor Adrienne O'Neil said the 'CALM' program was based on well-established evidence for the use of diet and exercise as a treatment for mental health conditions.

"Lifestyle targets are the cornerstone for prevention and management of diabetes and heart disease, but not currently for mental disorders," she said. "There is good evidence diet and exercise can complement standard care, but we don't know if they are as good as standard psychological care. This is the first study to test this approach directly with psychotherapy in a real-world mental health setting. This evidence is critical if we are to see lifestyle-based care become an embedded part of mental health care in the future. We hope this will provide future treatment options for people with mental health concerns."

Patients will be encouraged to continue taking any prescribed medication throughout the study. In addition to Deakin University and Barwon Health, collaborative partners in the study include Monash University, the University of the Sunshine Coast and UNSW.

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

- A retrospective medical records audit of patients whose preference was to die at home: What helps people achieve their wish?
- An ongoing research initiative of the Cachexia and Nutrition Support Service data
- Clinical trial into a new treatment for cancer cachexia in people with advanced lung cancer
- Use of MELATONIN in preventing delirium in people with advanced cancer admitted to the Palliative Care Unit
- Palliative care service delivery evaluation projects including the evaluation of the Life Stories program and Teachback training for Health Professionals
- The rapid uptake of Telehealth in response to the COVID-19 pandemic
- 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

- 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

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

RESEARCH GRANTS

- Western Alliance - The rapid adoption of telehealth by a regional community-based palliative care service due to COVID-19: Patient and Health Care Professional perspectives and opportunities for service enhancement: 2020

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.

RESEARCH LEAD

Dr Greg Weeks
Director of Pharmacy

KEY RESEARCH AREAS

- Partnered Pharmacist Medication Charting (PPMC) Expansion Project
- VANISH Trial into treatment for smoking cessation among hospitalised smokers
- A screening tool for patients at risk of medicine-related problems at admission and after discharge from the emergency department

RESEARCH TEAM

Research staff

- Dr Greg Weeks, Director of Pharmacy
- Dr Diana Bortoletto, Senior Education and Training Pharmacist
- James Polmear, Associate Director Clinical Pharmacy Services
- Alicia Neels, Antimicrobial Stewardship Pharmacist (AMS)
- Garth Birdsey, Senior Cardiology Pharmacist
- Leonie Abbott, Senior Emergency Pharmacist
- Lisha Kuruvilla, McKellar Pharmacy Manager and Community Palliative Care Pharmacist
- Sarita Thethy, Clinical and Quality Improvement Pharmacist
- Sylvia Cuell, Deputy Director of Pharmacy

Research Students

- Lisha Kuruvilla, PhD
- Alicia Neels, Masters of Health Management/Public Health (Infectious Diseases)
- Jessica Rhodes, Master of Clinical Pharmacy
- Tenay Rankin, Master of Clinical Pharmacy
- Sarita Thethy, Graduate Certificate (Clinical Redesign)

COLLABORATING ORGANISATIONS

- Monash University
- Deakin University
- Utrecht University (Netherlands)
- Monash Health
- Alfred Health
- Eastern Health
- Frankston Hospital
- Queen Elizabeth Hospital (SA)
- South West Healthcare
- Colac Area Health
- Portland District Health
- Hamilton District Health
- Society of Hospital Pharmacists
- Western Alliance

RESEARCH GRANTS

- Safer Care Victoria - Partnered Pharmacist Medication Charting - Oncology: 2020-2021
- Safer Care Victoria - Rural/Regional credentialing for Partnered Pharmacist Charting: 2020-2020

Radiation Oncology

OVERVIEW

The Radiation Oncology team uses 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 TOPGEAR Phase II/III Trial (stomach cancer)
- 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 Lead
- William Patterson
- Flavio Nelli

Radiation Oncology

- Dr Michael Francis, Research Lead
- Dr Rod Lynch

Radiation Therapy

- Shane Brasier, Research Lead
- Philip Moloney
- Tom Ffrench
- Grace Donahoo

COLLABORATING ORGANISATIONS

- Peter MacCallum Cancer Centre
- St Vincent's Hospital
- Western Health

RESEARCH LEADS

Dr Graham Pitson
Director of Radiation Oncology

Dr Michael Francis
Interim Clinical Lead – Radiation Oncology

Shane Brasier
Operations Manager Radiotherapy

Thu Tran
Chief Medical Physicist

- Box Hill Hospital
- Olivia Newton-John Cancer Wellness & Research Centre
- RMIT
- University of South Australia
- Liverpool and Macarthur Cancer Institutes and Ingham Institute

RESEARCH GRANTS

- ALCC Radiation Oncology Education Fund - : 2020-2022

Barwon Health researchers recognised in international bone health publication

Research News: July 2020

Congratulations to Barwon Health and Deakin University researchers Pamela Rufus-Membere, Kara Holloway-Kew, Mark Kotowicz and Julie Pasco, whose 2019 Endocrinology publication "*Associations Between Bone Impact Microindentation and Clinical Risk Factors for Fracture*" has been selected for inclusion in the 2020 Endocrine Society Bone Health Thematic Issue. This special issue is a curated collection of journal articles focused on bone health that were published in 2018–2020.

In this publication, the team establishes that risk factors for fracture are associated with poor bone impact microindentation (BMSi), a way of assessing bone hardness, and would be consistent with BMSi being a valuable for assessing fracture risk.

Described by the Society as a cutting-edge, influential contribution to the endocrine community, this selection recognises the significant impact of the team's work on osteoporosis research across the world.

2020 Barwon Health Publications

Exported in APA 6th format from Endnote. Includes journal publications, conference proceedings and book chapters.

Abdullah, S., Lait, P., Helps, C., Newbury, H., & Wall, R. (2020). The prevalence of Rickettsia felis DNA in fleas collected from cats and dogs in the UK. Veterinary Parasitology, 282, 3. doi:10.1016/j.vetpar.2020.109143

Abeykoon, A. M. H., Clark, N. J., Soares Magalhaes, R. J., Vincent, G. A., Stevenson, M. A., Firestone, S. M., & Wiethoelter, A. K. (2020). Coxiella burnetii in the environment: A systematic review and critical appraisal of sampling methods. Zoonoses Public Health. doi:10.1111/zph.12791

Abida, W., Campbell, D., Patnaik, A., Shapiro, J. D., Sautois, B., Vogelzang, N. J., . . . Chowdhury, S. (2020). Non-BRCA DNA Damage Repair Gene Alterations and Response to the PARP Inhibitor Rucaparib in Metastatic Castration-Resistant Prostate Cancer: Analysis From the Phase II TRITON2 Study. Clin Cancer Res, 26(11), 2487-2496. doi:10.1158/1078-0432.Ccr-20-0394

Abida, W., Patnaik, A., Campbell, D., Shapiro, J., Bryce, A. H., McDermott, R., . . . Chowdhury, S. (2020). Rucaparib in Men With Metastatic Castration-Resistant Prostate Cancer Harboring a BRCA1 or BRCA2 Gene Alteration. J Clin Oncol, Jco2001035. doi:10.1200/jco.20.01035

Abida, W. C., D.; Patnaik, A.; Sautois, B.; Shapiro, J. D.; Vogelzang, N. J.; Bryce, A. H.; McDermott, R. S.; Ricci, F.; Rowe, J. H.; Zhang, J.; Loehr, A.; Despain, D.; Dowson, M.; Golsorkhi, T.; Chowdhury, S. (2020). Genomic characteristics associated with clinical activity of rucaparib in patients (pts) with BRCA1 or BRCA2 (BRCA)-mutated metastatic castration-resistant prostate cancer (mCRPC). Journal of Clinical Oncology, 2020 Genitourinary Cancers Symposium. United States. 38(6 Supplement), (no pagination). doi:http://dx.doi.org/10.1200/JCO.2020.38.6_suppl.178

Abramson, M. J., Gwini, S. M., de Klerk, N. H., Del Monaco, A., Dennekamp, M., Fritschi, L., . . . Sim, M. R. (2020). Predictive value of non-specific bronchial challenge testing for respiratory symptoms and lung function in aluminium smelter workers. Occup Environ Med, 77(8), 535-539. doi:10.1136/oemed-2019-106344

Adams, S. D., Doeven, E. H., Tye, S. J., Bennet, K. E., Berk, M., & Kouzani, A. Z. (2020). TinyFSCV: FSCV for the Masses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 28(1), 133-142. doi:http://dx.doi.org/10.1109/TNSRE.2019.2956479

Afrin, N., Honkanen, R., Koivumaa-Honkanen, H., Sund, R., Rikkonen, T., Williams, L., & Kröger, H. (2020). Depression, falls, and fractures. Osteoporos Int, 31(6), 1173-1174. doi:10.1007/s00198-020-05348-6

Afrin, N., Sund, R., Honkanen, R., Koivumaa-Honkanen, H., Rikkonen, T., Williams, L., & Kröger, H. (2020). A fall in the previous 12 months predicts fracture in the subsequent 5 years in postmenopausal women. Osteoporos Int, 31(5), 839-847. doi:10.1007/s00198-019-05255-5

Aftab, S., Barnes, M. P., Doebrich, M., & Lehmann, J. (2020). The effect of the horizontal metallic drive on reference dosimetry in the SNC 3D scanner water tank. J Appl Clin Med Phys, 21(4), 95-101. doi:10.1002/acm2.12858

Agar, J. W. M., & Barraclough, K. A. (2020). Water use in dialysis: environmental considerations. Nat Rev Nephrol. doi:10.1038/s41581-020-0296-3

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Agustini, B., & Berk, M. (2020). The embryology of psychosis. Lancet Psychiatry, 7(3), 219-220. doi:10.1016/s2215-0366(20)30042-0

Agustini, B., Lotfaliany, M., Woods, R. L., McNeil, J. J., Nelson, M. R., Shah, R. C., . . . Mohebbi, M. (2020). Patterns of Association between Depressive Symptoms and Chronic Medical Morbidities in Older Adults. J Am Geriatr Soc. doi:10.1111/jgs.16468

Agustini, B., Mohebbi, M., Woods, R. L., McNeil, J. J., Nelson, M. R., Shah, R. C., . . . Berk, M. (2020). The association of antihypertensive use and depressive symptoms in a large older population with hypertension living in Australia and the United States: a cross-sectional study. J Hum Hypertens. doi:10.1038/s41371-020-0303-y

Ak, G., Graves, S., Stenos, J., & Ferguson, J. (2020). Seroprevalance to Coxiella burnetti in the Ramu Valley of Papua New Guinea. Pathology, 52, S122. doi:DOI: https://doi.org/10.1016/j.pathol.2020.01.415

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Al-Hakeim, H. K., Almulla, A. F., Al-Dujaili, A. H., & Maes, M. (2020). Construction of a Neuro-Immune-Cognitive Pathway-Phenotype Underpinning the Phenome of Deficit Schizophrenia. Curr Top Med Chem, 20(9), 747-758. doi:10.2174/1568026620666200128143948

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