



**Barwon
Health**



RESEARCH
REPORT 2015



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FOREWORD

We are proud to present Barwon Health's annual Research Report to you. This report highlights how Barwon Health has matured in our contribution to the larger health academia. Over the past year, Barwon Health staff and associates have contributed to more than 390 peer-reviewed journal articles, which is 10 per cent more than our previous year. It is only appropriate that this amount of research activity has its own recognition in the form of this report.

In a year of strategic significance, we also launched the Barwon Health Strategic Plan 2015-2020, of which one of the strategic pillars, Research, Education and Training for Excellence, declares our commitment to contribute to health and medical research. In order to kick start the support for early career researchers, we launched the Barwon Health Education, Training and Research Profile Fund. This fund provides funding to help kick start early career researchers, bring international academics to Geelong to provoke innovative thinking, allows protected research time for clinicians and scholarship support for staff enrolling in research related higher degrees. This internal funding mechanism was strongly welcomed by the Barwon Health academic community, and we have been able to successfully allocate funding to 18 very worthy applicants amongst a large and competitive field.

This is also an opportunity for us to formally celebrate our membership within the Western Alliance, Victoria's third largest Academic Health Science Network. This Alliance has a specific regional health focus and enables the translation of research into practice. Being the largest health service provider within this network, we certainly feel a responsibility to assist in its growth and development, and take on this challenge with pride. One of the first aims of the Western Alliance with Barwon Health as a partner will be to identify and develop research capability across the Barwon South West region.

Development of strong research activities must be underpinned by good research governance. Barwon Health has been acknowledged as a leader in this field, having recently been invited by the National Health and Medical Research Council to participate in its Good Practice Pilot for Clinical Trials Process. Good governance requires transparency, accountability and ethical decision making within the health services' clinical and non-clinical areas, and our executive team and senior managers have signed up to the process with laudable enthusiasm.

The 2015 Barwon Health-Deakin University Research Week will also be a highlight in November, with our close friend and strategic partner, Deakin University, co-hosting this premier research showcase event for the first time. Professor Len Harrison, from the Walter and Eliza Hall Institute, will be our keynote scientific speaker discussing medical research in the 21st Century with a focus on the microbiome. The annual poster competition and Audience Choice Awards received a record number of 109 entries and we salute all participants who contribute to making Research Week such a special event.

We would like to extend our warmest welcome to Professor Soren Alexandersen, Barwon Health's newest academic arrival, and Foundation Director of the Geelong Centre of Emerging Infectious Diseases. The Centre is a collaboration between the CSIRO, Deakin University and Barwon Health. The new facility will be officially launched in November by The Honourable Sarah Henderson, MP. The Centre will focus on the concept of One Health, which recognises that the health of humans is connected to the health of animals and the environment.

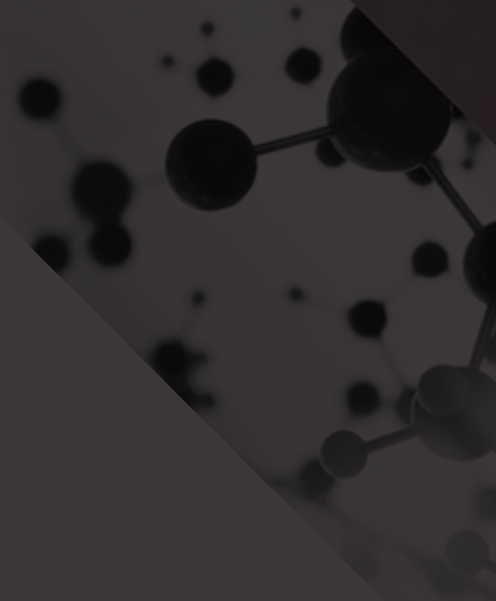
Finally we would like to thank Professor Frances Quirk and the team within the Research Directorate for their roles in supporting the fantastic work the Barwon Health research community has performed throughout this year.

We hope that you will join us in celebrating our achievements.



A handwritten signature in black ink, appearing to read 'Alastair Mah'.

Associate Professor Alastair Mah
Chief Medical Officer
Barwon Health





SECTION 1

OVERVIEW

RESEARCH STRATEGIC PLAN

Barwon Health's health and medical research takes a whole-of-life span, whole-of-health-system approach to transforming healthcare and health-service delivery, addressing the leading health challenges of the region. With a clear focus on population health and chronic disease, Barwon Health's health and medical research changes lives, translates knowledge into practice and policy and focuses on research excellence to deliver sustainable healthcare that benefits the Barwon Region and beyond.

Research vision

Enabling world class integrated healthcare for the Barwon South West Region

Research mission

To support and conduct health and medical research that transforms lives, healthcare delivery and health systems to benefit the communities of the Barwon Region

Research values

Integrity, Innovation, Collaboration, Connected, Sustainability

Research strengths

Expertise, Engagement, Environment

Research Strategic Objectives

1. Leverage embedded expertise and capability
2. Improve research support to build capability and capacity
3. Promote research culture , research engagement and research outputs
4. Lead a regional approach to healthcare innovation and solutions to health challenges

OBJECTIVE	INITIATIVES				
1 Leverage embedded expertise and capability	Research Advisory Committees	Project Design Initial Assessment for risk mitigation, alignment with priorities	Postgraduate Medical Education Research Program	Co-ordinated Clinical Trials Activity	Survey research literacy and research aspirations
2 Improve research support to build capacity	Professorial appointments in relevant disciplines	Research leadership framework for the McKellar Centre	Health Professional PhD cohort program	Early Graduate Research Program	Research funding stream through the Barwon Health Foundation
3 Promote research culture, engagement, outputs	Research questions and knowledge transfer in Barwon Health Strategic themes and planning cycle	Central support for writing ethics applications and journal articles and engaging in research promotion	Internal promotion of research activity, success and opportunities (website, newsletter)	Publication and research outputs digital repository (collaborate with regional health library)	Consumer engagement (citizen scientist) in research lifecycle
4 Lead a regional approach to healthcare innovation and solutions	Partner with Higher Education and Research Institutes to solve emerging health challenges (GCEID)	Partner with Government and Non-Government Agencies in solution focused initiatives and knowledge transfer	Partner and health service research leader in Regional Integrated Health Science Centre	Partner and research mentor in Ambulatory Care Regional Research Network	Lead Post Graduate Medical Education research and evaluation Program

THE BARWON HEALTH FOUNDATION

The community of Geelong and the surrounding region has a long history of looking after its own. In 1848 community leaders, understanding the value of investing in the health of the population of Geelong and the surrounding region, launched the first Hospital Appeal. The Geelong Infirmary and Benevolent Society (now University Hospital Geelong) first opened its doors in Ryrie Street in 1852, due to the generous support of the community. For more than 167 years community support has played a key role in the building of the quality health service we have today.

Today, the Barwon Health Foundation creates and nurtures philanthropic partnerships with the community to raise funds and invest in excellence in medical services and facilities, ensuring they remain accessible to all.

To support and safe guard the future of our health systems and services in our region we have recently established the Barwon Health Foundation Future Fund with the key purpose of building an endowment fund for the next generations with a focus on clinical education and research . Our intention is to build a corpus of funds that will allow our clinical education and research to flourish culturally and financially.

A philanthropic gift to the Barwon Health Foundation Future Fund will leave a legacy that will improve the health and wellbeing of the people in our community for years to come.

Contact details

Barwon Health Foundation
283 Ryrie Street
Geelong Victoria 3220
Tel: 03 4215 8900



CASE STUDY 1: HEALTHPATHWAYS AND INTEGRATED CARE

Western Victoria Primary Health Network (WVPHN) and Barwon Health are collaborating to help General Practitioners (GPs) and other primary care providers navigate the increasingly complex health care system in order to care for patients with complex conditions requiring sophisticated assessments and treatments.

The solution is HealthPathways, a web-based resource designed to assist primary care providers deliver standardised, evidenced-based care and coordinate care between health care providers. HealthPathways was first developed in New Zealand and its use is becoming widespread across Australia. Barwon Health HealthPathways has worked with 10 different clinical streams in the first two years of implementation. Key to the process of HealthPathways development and localisation is the formation of workgroups for each clinical stream. Workgroups consist of specialists and General Practitioners and any other key stakeholders. They identify issues affecting each party's ability to deliver optimum patient care in a service area and prioritise HealthPathways development. Through the workgroup process locally agreed, evidence-based pathways are produced. Clinical pathways for specific health conditions guide practitioners in managing patients' conditions including referral to local services.

Barwon Health HealthPathways is developing rapidly with more than 137 clinical pathways and 87 referral pathways available. More than 1000 website visits occur each month.

Western Victoria Primary Health Network (WVPHN), Barwon Health and Deakin University, in partnership with Curtin University and Perth Central Primary Health Network, are working to evaluate HealthPathways. The Research and Evaluation Committee oversees research activity and includes Professor Frances Quirk, Associate Professor Colin Bell, HealthPathways Coordinator Margie McLeod, and GP Michael Axtens. Local GP Sarah Mansfield led an early evaluation of Barwon Health HealthPathways which showed promising results. The evaluation consisted of a GP survey and evaluation of the effectiveness of the workgroup process. GPs that use HealthPathways indicated that the website is easy to access, improved their knowledge of local services, saved them time and improved their confidence in managing clinical problems. The results also indicated that more work needs to be done to increase primary care providers' awareness of HealthPathways. The workgroup evaluation showed that HealthPathways is viewed positively by clinicians, and the workgroup process is beneficial in improving relationships, communication and collaboration between care providers.

Dissemination of the Barwon Health HealthPathways' early successes is underway with conference presentations at the HealthPathways Conference (Sydney, March 2015), the International Forum on Quality and Safety in Healthcare (London, April 2015), and the European Public Health Conference (Milan, October 2015). Work has also been published in the Australian Health Review Journal (2015). Barwon Health HealthPathways will continue its work with Curtin University and Perth Central Primary Health Network, seeking grant funding to support HealthPathways evaluation and research activity.

CASE STUDY 2: RESEARCH LIBRARY

RESEARCH DATA MANAGEMENT PROJECT

The Library's Research Data Management Project received funding through the Barwon Health Education, Training and Research Profile Fund 2015. The three-month project was led by a Research Librarian from the University of Helsinki Medical Library, Mari Elisa Kuusniemi.

The purpose of the project was to improve Barwon Health's research data management practices and support services, focusing on providing the information needed to

- Develop Barwon Health Library and Research Services
- Develop a research data and records management policy and
- Create a data management planning check list.

Key stakeholders in Barwon Health were interviewed about their current research data management practices. Findings were linked to the research life cycle to construct a picture of existing research data management practices and the information, guidelines, and supports currently available to researchers. Gaps in the existing infrastructure were detected and recommendations were made in the final project report.

Desktop research into regulatory and support frameworks and best practice examples from international and national sources provided the basis for the development of the research data and records management policy and data management planning checklist.

RESEARCH PUBLICATIONS REPOSITORY

Barwon Health Library established the Barwon Health Publications Repository to archive and make accessible all official Barwon Health electronic publications. The repository is organised in collections of general publications (such as annual reports), oral histories, sabbatical reports and research publications. Research publications include scholarly peer-reviewed journal articles that have been authored by Barwon Health researchers. In September 2015 there were 288 publications in this collection.

NEW LIBRARY AND RESEARCH OFFICES

In November 2015 staff from the Library and the Research Directorate will relocate to the newly redesigned and refurbished St Mary's building on Myers St. This will enable the delivery of integrated Library and Research Services, access for researchers to the co-located expertise of librarians and research consultants, as well as providing technology-rich education, study and conference facilities to support research practice and promotions.

CASE STUDY 3: END OF LIFE CARE

END OF LIFE CARE

Death is one of life's certainties. Providing compassionate end of life care that meets the emotional, social, cultural and spiritual needs and preferences of a dying person and the people around them is a priority for Barwon Health and is reflective of the incoming strategic plan which has a pillar dedicated to consumers. A great deal of work is currently underway to ensure world-class, end of life care for people in our community.

BARWON HEALTH'S END OF LIFE CARE STRATEGY

The Barwon Health End of Life Care Steering Committee was established in 2014 to develop and implement an organisational-wide End of Life Care Strategy. The aim of the strategy is to ensure that end of life care is planned collaboratively with the patient and family, is clinically appropriate and is delivered compassionately, regardless of where patients are cared for in the organisation. Community consultation has been a hallmark of the Strategy's development. More than 40 community members attended one of two workshops and completed a questionnaire that sought their preferences for end of life care. Questionnaire results indicated that over 97 per cent of participants said it was very or extremely important to be involved in decisions about their care. An equal number said they wanted to have an honest and straightforward discussion with the clinician about their end of life care needs, options and wishes. The Strategy is now complete and planning for implementation is underway.

INVALIDATE

iValidate is a Barwon Health Intensive Care Unit project that aims to improve care for patients with life-limiting illnesses. The project team is made up of intensive care specialists, a clinical ethicist, a senior palliative care specialist, experts in clinical simulation and research coordinators. The team is supported by a group of experienced communication experts. We are delivering a 16 hour, intensive course for junior doctors and senior nurses, to assist them to develop enriched communication skills so that they can elicit individual patients goals, identify values, provide tailored advice, create an agreed plan, and document this process in the patients' medical record. The effect of this on patient-centred outcomes, health outcomes, and process-of-care outcomes is being measured. We strongly believe that this project will enhance our health professionals ability to give optimal care to patients and that as a result patients will feel they have a better understanding of their illness and a greater involvement in their own care. We believe that this will empower patients and their families and improve their overall experience at Barwon Health.

ADVANCE CARE PLANNING

Advance Care Planning (ACP) is an opportunity to think about, discuss and document the medical treatment you would like if you become ill and are unable to communicate your wishes. Barwon Health is a national leader in ACP, and has been helping people prepare ACPs since 2006. More than 6000 people have completed an ACP to date.

Understanding how ACP affects people's experiences and outcomes at end of life is the focus of Barwon Health research activity. Barwon Health will investigate this question over the next 12 months by analysing hospital data describing the care people with ACPs receive. The research will provide useful insights into how ACPs affect health care process and patient's experiences. It will help us to continue to improve care for people at end of life.

ESTABLISHING SYSTEM WIDE ADVANCE CARE PLANNING (ESWACP)

The ESWACP initiative aims to improve the capacity of general practice to 'have the conversation' regarding ACP and to facilitate the exchange of ACP information within our region. The initiative is one of 13 identified to implement the Department of Health and Human Services's ACP strategy 'Advance Care Planning; have the conversation: A strategy for Victorian health services 2014-2018'. Funding is provided by DHHS, managed by Networking Health Victoria and delivered by Western Victoria Primary Health Network (formerly Barwon Medicare Local) in partnership with the Barwon Health ACP program. ESWACP includes implementation of the online survey, My Values, developed by Dr Charlie Corke and will review existing ACP pathways and identify systems which facilitate the exchange of ACP information. There is a specific focus on general practice and regional health services providing access to emergency/urgent care.

PALLIATIVE CARE PROGRAM

The Palliative Care Program is well known for providing compassionate care for people at end of life and conducts research to understand and improve care, including a number of clinical trials. In the past year research was presented at the Australian and New Zealand Society of Palliative Medicine Conference. Work performed at Barwon Health's Cancer Cachexia Clinic was also presented at the Clinical Oncology Society of Australia Conference. Senior staff also contributed to a paper presented at the Australian Palliative Care Conference titled *Randomised double blind placebo controlled phase II trial of melatonin for prevention of delirium in inpatients with advanced cancer*. Researchers also collaborated with other Barwon Health staff, publishing on end of life care for people with cancer and diabetes in the *European Journal of Cancer Care and Endocrinology Today* respectively. There has also been a paper accepted for publication in the *European Journal of Palliative Care* titled *When home care falters: Out-of-hours visits to the emergency department*.



Reflection from Christine Corby, Consumer Representative on the EOLC Care Committee and Palliative Care Volunteer:



“As a carer, end of life care has many challengers. I strongly believe palliative care is the most holistic approach to transitioning from life to death. Death, to me, is a normal part of life for all of us. How death is managed for the dying person and their family depends on ‘death preparation’.

I use the phrase ‘death preparation’ after much thought. We prepare for so much in our lives; marriages, births, celebrations, sports events and to me I add preparation for death. The most important preparation for my family is having the conversation around death and dying and what that means to each of us.

These include spiritual beliefs, suffering, euthanasia, money, wills, funeral arrangements and documents such as Advanced Care Planning and a Living Will. What we value as a family is honest thoughtful communication and a dignified end to life.”



CAREER SPOTLIGHT
PROFESSOR
TRISHA DUNNING
CHAIR OF NURSING

Before you use Evidence

What you should know about

Green box: This box contains information about the evidence that is relevant to your research. It includes a list of the evidence that is relevant to your research and a list of the evidence that is not relevant to your research.

EARLY INTEREST IN RESEARCH

Trisha always wanted to be nurse. She completed her training and commenced practice in rural New South Wales near to where she grew up. Trisha's passion to be the best nurse she could be came with an inquiring mind that questioned current practices and inevitably led to research. Trisha was doing research before she knew it by collecting data as part of her daily duties. Trisha recalls her nursing graduation oration when the presenter said that a "wind is blowing through the corridors, and that wind is science". Guided by mentors and colleagues, Trisha began conducting experiments to answer her clinical questions. Her first published study was a randomised trial investigating the effects of alcohol swabbing prior to blood glucose testing. The results indicated that swabbing had no effect on meter accuracy in the clinical setting.

RESEARCH MOTIVATION AND SUCCESS

Trisha was motivated by wanting to give back to the community. Awards and accolades, including an Order of Australia, have been a pleasant by-product of her passion. Research success comes from curiosity, really hard work, reliance, overcoming the many challenges of research life, being driven, and persisting. For Trisha, staying a clinician has been fundamental to her success as it keeps her grounded in the real world, and provides her with endless opportunities for clinical research. Although juggling the demands of clinical and research work is difficult, clinical work makes Trisha a better researcher, and being a researcher makes Trisha a better clinician.

CAREER HIGHLIGHTS

Trisha was one of Australia's first nurse diabetes educators, and soon realised that there was little guidance for nurses involved in diabetes care. Consequently, Trisha wrote *Care of People with Diabetes: A Manual of Nursing Practice* which is now in its fourth edition.

Trisha's research reflects a strong desire to include consumers in all stages of the research process including design, implementation, and evaluation. For example, her study *Young-Adult Perspectives on Insulin-Dependent Diabetes* was a collaboration with young people with diabetes and uncovered the challenges they encounter as they seek to understand and manage the condition.

Led by a desire to understand and improve the care of people with diabetes at the end of their life, Trisha successfully applied for funding to develop guidelines for managing diabetes at the end of life. Developing the guidelines involved interviewing people with diabetes and their family members – a very vulnerable group who are typically not involved in research. The guidelines were published in 2010. Similarly, in consultation with patients, family members, and staff, Trisha led the development of *The McKellar Guidelines for Managing Older People with Diabetes in Residential and Other Care Settings*.

WHAT DOES THE FUTURE LOOK LIKE?

Looking forward, Trisha sees much work to be done, particularly with respect to caring for people with diabetes. Trisha will continue to improve clinical guidelines and develop competency assessments to assist in the assessment and development of staff that care for people with diabetes.

ADVICE TO THOSE THINKING OF STARTING OUT IN RESEARCH

For Trisha, research life is a rewarding and challenging journey. She recommends finding a mentor, being interested and passionate about your research question, knowing your strengths and limitations and accept advice when you need it, reading voraciously and quickly, celebrating your successes and those of your colleagues, being ready to accept critical advice because it's inherent to peer-review research, keeping your eyes out for research questions and opportunities because they're always there, and expecting ups and downs, and lefts and rights because research doesn't always go in straight lines.

A portrait of Professor Michael Berk, a middle-aged man with short hair, smiling. He is wearing a dark blue blazer over a blue and white striped shirt. He is leaning on a white ledge with his arms crossed. The background is a modern building with large glass windows and a dark overhang. A white text box is overlaid on the bottom left of the image.

CAREER SPOTLIGHT

PROFESSOR
MICHAEL BERK
CHAIR OF PSYCHIATRY

EARLY INTEREST IN RESEARCH

After completing surgical and neurological rotations in South Africa, Michael took a few months off to try something different, namely psychiatry, and never looked back. Michael was fascinated by the human condition, and psychiatry combined science, art, literature and philosophy to answer the most fundamental questions about human existence. Michael has innate intellectual and academic curiosity, which early in his career was directed by mentors towards the scientific process and research. Inspired by wanting to improve clinical practice, Michael started answering questions relevant to psychiatry, with a particular interest in developing effective treatments for mental health disorders. Combining clinical work and research keeps Michael fresh and interested in his work (and busy!), and for him, helps prevent burnout that can be prevalent in the profession. "Once you get on this journey and start uncovering things and learning things, it really just gets under your skin. Once you get bitten I don't know if there is an antidote."

RESEARCH MOTIVATION AND SUCCESS

Michael is a highly respected international researcher, with more than 700 publications to his name and numerous awards and grants that recognise his achievements. Michael's success resulted from being curious, working hard, persisting despite setbacks, having good mentors and being involved with a great team. For Michael success results from "lots of small bricks applied serially, one on top of the other; every brick allows you to build a bigger and better wall".

CAREER HIGHLIGHTS

Michael's passion has always been research that makes a difference to clinical practice. Early in his research career he led the first two published randomised trials of atypical antipsychotics and lamotrigine in bipolar disorder, both of which are now established treatments. Other significant research investigated the effects of medications in depression, bipolar disorder, and schizophrenia.

WHAT DOES THE FUTURE LOOK LIKE?

Michael now leads the IMPACT Strategic Research Centre and considers the University Hospital Geelong rebranding as symbolic for Barwon Health's overall strategic direction towards making research part of the organisation's fabric which will "pay dividends in terms of the quality of clinical care" provided to the community.

According to Michael, the human brain is the most complex system known. The fact that we know relatively little about it makes understanding the brain and improving mental health a very challenging enterprise. Michael's interest in finding effective treatments sees him looking for more useful interventions through basic science, epidemiology, and clinical trials. There are promising options repurposing drugs like N acetylcysteine, statins and aspirin to see if they have utility in mood disorders. Michael also sees his role mentoring other researchers and developing his team by helping gifted young people grow and develop their own research and career trajectories.

ADVICE TO THOSE THINKING OF STARTING OUT IN RESEARCH

Research skills and output are key differentiators for health care professionals in today's competitive job market. Insightful students and new graduates have already worked this out, and are proactively seeking research opportunities. Research can be difficult, so Michael suggests finding a trustworthy mentor. Be curious. Work hard. Have a passion for knowledge. Be prepared for criticism and setbacks. Don't do research for the money but expect high job satisfaction and career longevity. There is bi-directional interaction between research and the quality of clinical care, so being an active researcher should make you a better clinician, and probably a happier one.

RESEARCH WEEK 2014

SUMMARY AND OUTCOMES

RESEARCH WEEK POSTER COMPETITION WINNERS 2014

In 2014, 66 high quality entries were submitted into the Poster Competition. Associate Professor Alastair Mah awarded prizes to the winners.

Congratulations to the following researchers on their awards:

James Fraser-Moodie

Outstanding 'Clinical Research' Research Poster

The Down under Lesion: A Subtype of Labral Lesion in Shoulder Instability

Fiona Collier

Most Outstanding 'Population Health' Research Poster

Establishment of the Barwon Infant Study (BIS) Repository

Gemma Vincent

Most Outstanding 'Basic Science' Research Poster and 'Early Career' Research Poster

Molecular epidemiology of *Coxiella Burnetii* in Australia

Lucinda Gabriel

Most Outstanding 'Service Delivery/Health Systems' Research Poster

The INSinCC (Insurance Status in Clinical Care) study: Characterising the relationship between patients' insurance status and mortality risk in the ICU

Natalie Hyde

Most Outstanding 'Audience Choice' Research Presentation

Puffing During Pregnancy; Are We Compromising Offspring Bone Development?

Neel Heerasing

Most Outstanding 'Health Outcomes/Clinical Practice' Research Poster

Prevalence of eosinophilic oesophagitis in adults presenting with oesophageal food bolus obstruction



EDUCATION, TRAINING AND RESEARCH PROFILE FUND ROUND 2015

SUMMARY AND OUTCOMES

In September 2014, following the renaming of The Geelong Hospital to University Hospital Geelong, and in line with the strategic direction of Barwon Health, the CEO established the Education, Training and Research Profile Fund, an annual competitive financial grant to support and build on the academic profile of Barwon Health. Awards in the five categories of this inaugural round are listed below.

CATEGORY A – CLINICAL EDUCATION AND TRAINING AND/OR RESEARCH BUY-OUT TIME FOR HEALTH PROFESSIONALS

Nicky Robson
Manager/Speech Pathologist

'Development of communication resources to assist members of acute health-care teams to communicate with their communication impaired consumers'.

Donna Lever
Survivorship Nurse Consultant, Cancer Services

'Surviving Cancer – what is the experience for the younger adult living in regional or rural Australia?'

Daniel O'Brien
Deputy Director, Department of Infectious Diseases

'Improving the safety and effectiveness of Mycobacterium Ulcerans treatment on the Bellarine Peninsula'.

CATEGORY B – SUPPORT OR SEED FUNDING FOR CLINICAL EDUCATION AND TRAINING AND/OR RESEARCH PROJECTS

Steve Lane
Senior Biostatistics Officer

'Statistical capability building for Barwon Health researchers'.

Sue Smith
Nursing Education and Training, Clinical Education and Training

'Med –Mid Model, exploring a model for interdisciplinary clinical placement in birth suite'.

Teng Fong
Andrew Love Cancer Centre Haematology

'Double Hit' Diffuse Large B-Cell Lymphoma.

Richard Page
Orthopaedic Surgeon

'The Adhesive Capsulitis Biomarker (Ad-CaB) Study'.

Mark Kotowicz
Department of Endocrinology and Diabetes,
Department of Medicine

'Features of the Metabolic Syndrome and risk of subsequent Gestational Diabetes Mellitus'.

Ann Ritchie
Regional Health Library

'Research Data Management and Research Librarian Mentorship'.

Giuliana Fuscaldo

Manager, Research Ethics, Governance and Integrity Unit

'Building Capacity and Regional Leadership in Clinical Ethics'.

Amanda Wade

Infectious Diseases Physician

'Models of care for hepatitis C treatment: comparing hepatitis C care and treatment in a primary health care service compared with a tertiary hospital, The Prime Study'.

Fiona Collier

Research Manager, Senior Scientist

'Pregnancy Sex Hormone Levels: Do they influence Immune Cell Development in the Newborn and Modulate the Risk of Food Allergy?'.

Jason Hodge

Research Fellow, Senior Scientist

'Assessment of 2 novel IDH mutant inhibitors in treatment of glioma'.

CATEGORY C – THE VISITING SCHOLARS GRANT: FUNDING FOR A ONE-MONTH TO THREE-MONTH RESIDENCY FOR A CLINICAL EDUCATION AND TRAINING AND/OR RESEARCH VISITING SCHOLAR

Kathryn Vick

Manager/Lead Share, Clinical Education and Training Allied Health

'Innovation in Interprofessional Education: engaging learners and building a knowledge culture'.

Trisha Dunning

Director, Centre Nursing and Allied Health Research

'Professorial visit to foster clinical knowledge exchange and research collaboration in managing older people with diabetes within Barwon Health'.

Toni Hogg

Clinical Director, Community Health and Rehabilitation Services

'Enhancing Rehabilitation Research at Barwon Health'.

CATEGORY D – HEALTH PROFESSIONAL POSTGRADUATE STUDY SCHOLARSHIP

Jennifer Black

Mental Health, Drug and Alcohol, Inpatient, Aged and Residential Services

'Intelligent Kindness as a catalyst for culture change in healthcare'.

SYDNEY PARKER SMITH RESEARCH SCHOLARSHIP 2015

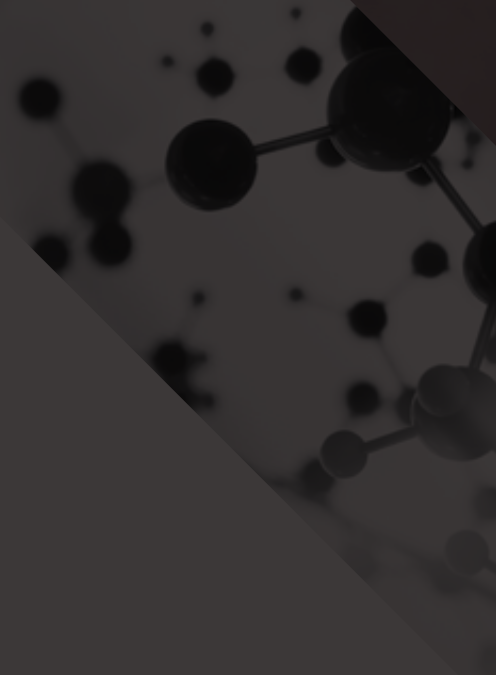
Lisa Bell completed her undergraduate training in dietetics, followed by Honours, with the School of Exercise and Nutrition Sciences at Deakin University. This award will support Lisa to undertake a PhD project with Associate Professor Peter Vuillermin's team, investigating the relationship between physical activity, sedentary behaviour and cardiovascular and respiratory health in preschool-aged children.

STUDY TITLE: PHYSICAL ACTIVITY, SEDENTARY BEHAVIOUR AND CARDIOVASCULAR HEALTH IN PRE- SCHOOL CHILDREN

Lisa's research project aims to investigate the role of physical activity and sedentary behaviour on Cardiovascular Disease (CVD) risk in four-year-old children born in the Barwon region. Although CVD tends to manifest in adulthood, current research indicates CVD has early life origins. Physical activity is associated with reduced CVD risk through promoting

a more favourable blood lipid profile, weight status and reducing chronic low grade inflammation. Investigations of CVD preschool children have previously been overlooked as it was generally assumed that they were sufficiently active. As rates of physical activity have decreased and rates of sedentary behaviour have increased in recent years, pre-school-aged children may be a critical yet overlooked demographic in CVD research. This project will use gold-standard measures of physical activity and sedentary behaviour (accelerometry), and indicators of CVD risk (cIMT, aIMT, blood pressure and pulse wave velocity). In addition this research will investigate the association between physical activity and other CVD risk factors including adiposity (skin fold and anthropometric measures) as well as markers of inflammation. It is intended that findings from this research will help improve our understanding of physical activity and sedentary behaviour in preschoolers CVD risk, and be useful in developing targeted public health interventions.







SECTION 2

BARWON HEALTH / DEAKIN
UNIVERSITY COLLABORATIVE
RESEARCH GROUPS

BARWON HEALTH
RESEARCH ROUNDUPS

EPIDEMIOLOGY

PROFESSOR JULIE PASCO

RESEARCH FOCUS

Deakin University's Epi-Centre for Healthy Ageing (ECHA), co-located at Barwon Health conducts population-based research focused on understanding the progression of chronic metabolic and musculoskeletal disorders including obesity, diabetes, osteoporosis and sarcopenia, and the nexus between physical and mental health. An important component of this program of epidemiological research is to facilitate knowledge transfer from research into clinical practice and into the community.

Major research projects include:

- The Geelong Osteoporosis Study (GOS), a prospective, population-based cohort study of men and women, originally designed to describe the epidemiology of osteoporosis and identify risk factors for fracture. It has evolved over time to study a broad range of chronic metabolic conditions, infectious diseases and psychiatric disorders.
- The Fracture Grid (GOS-FracGrid), a comprehensive catalogue of radiologically-confirmed incident fractures in the Barwon Statistical Division. The ProFrac study forms part of the GOS-FracGrid and is specifically designed to investigate the role of pharmacological agents as risk factors for fracture.
- The Vitamin D in Pregnancy (VIP) study, a prospective study of mother-child dyads, designed to investigate maternal vitamin D status during pregnancy and offspring growth and development.
- The Ageing, Chronic Disease and Injury (ACDI) study, designed to establish the extent and influence of ageing on chronic disease and injury across western Victoria.

MAJOR ACHIEVEMENTS

Research Awards

Dr Sharon Brennan-Olsen: Vice Chancellor's Award for Excellence (Deakin University)

Natalie Hyde: Three Minute Thesis finalist, Faculty of Health, Deakin University

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Over the next year we will:

- Conduct the 10-year follow-up for men enrolled in the Geelong Osteoporosis Study (GOS).
- Be the first researchers in Australia to investigate a novel technique, known as Reference Point Indentation, using a hand-held device known as the Osteoprobe. We secured Therapeutic Goods Administration approval for its use in Australia and will be using this device in the upcoming follow-up phase for GOS men
- Continue to generate data for the GOS-FracGrid which is a comprehensive listing of all incident fractures occurring in the Barwon Statistical Division. This unique resource prospectively identifies fracture cases by age, sex, date and fracture site.
- Conclude the current assessment phase for the prospective study known as the Vitamin D in Pregnancy (VIP) study, designed to determine the impact of maternal vitamin D levels during pregnancy on the growth and development in the offspring.
- Move into the second year of the ecological study known as Ageing, Chronic Disease and Injury in western Victoria (ACDI). Data are to be sourced from existing administrative and health databases to describe the pattern of chronic disease and injury in relation to ageing across local government areas throughout western Victoria. This project will identify health service delivery in the region.

PERSONAL REFLECTION

KARA HOLLOWAY

POSTDOCTORAL RESEARCHER

I became involved in research because I enjoy being involved in health research; much of what I learn can be used in everyday life to help family, friends and even myself have better health. I think research is important because it can help develop new ideas and strategies which may improve patient outcomes, reduce comorbidities or even help save a person's life. Many of the clinicians here at Barwon Health are either doing their own research or are involved with a research team. I think this is invaluable because clinicians can learn a lot from reading literature in their field, but also through conducting their own research. My current research includes musculoskeletal disorders, particularly osteoporosis and associated fragility fractures. These fractures are a major cause of mortality, morbidity and disability. Part of my current research involves investigating the risk factors associated with fragility fractures and targeting these factors for prevention strategies.

One example of how my work benefits my study population is that through knowing the factors that lead to a higher risk of fracture, we can plan preventative measures. For example, some fractures occur mainly as a result of falling, so, regular activities to help build muscle strength and improve balance, such as weight lifting or tai chi, and can reduce the chances of falling and consequently, of sustaining a fracture.

In five years, I hope to be leading a team in the area of musculoskeletal health, looking at the impact of more "unexpected" conditions/diseases on bone health, such as diabetes.

The thing that drew me to work at Barwon Health with Julie Pasco's team was the Geelong Osteoporosis Study; it's a huge comprehensive dataset with so much untapped potential for research.

STAFF

Professor Julie Pasco BSc (Hons), DipEd, PhD, MEpi.

Julie is the Director of the Epi-Centre for Healthy Ageing (ECHA).

Dr Sharon Brennan-Olsen BA (Hons), PhD, GCALL.

Sharon held a NHMRC Fellowship last year and currently holds an Alfred Deakin Postdoctoral Research Fellowship. She heads the Social Epidemiology unit in the ECHA. Her work examines the role played by social and environmental determinants on health outcomes, including health service utilisation.

Dr Lana Williams BPsych, Grad Dip App Psych, PhD, Assoc MAPS.

Lana is a clinical psychologist who holds an NHMRC Career Development Award. She heads the Psychiatric Epidemiology Unit in the ECHA. Lana's program of research examines medical, lifestyle and social correlates associated with mood, anxiety and personality disorders. Cornerstone to this program is her work linking mental disorders and the agents used in the treatment of these disorders to endocrinology endpoints, such as bone density, fracture and body composition. Lana leads the ProFrac study which is identifying psychotropic agents as risk factors for fracture.

Dr Kara Holloway BMedPharmTech, BSc (Nano and Biomaterials) (Hons), PhD.

Kara is a postdoctoral researcher who heads the Musculoskeletal Epidemiology Unit in the ECHA. Kara's work investigates the epidemiology of osteoporosis and fractures, identifies risk factors for fractures and describes fracture-related morbidity.

Kathy Bennett Div 1 Nurse, Mid-wife, GDIR.

Kathy is a qualified Division 1 Nurse and midwife, who has worked in the ECHA for a decade. Kathy clinically assesses GOS and VIP study participants, makes home visits to elderly participants, administers questionnaires and chases up non-responders and missing data.

Lisa Burke BA (Hons) Psych, MHSt.

Lisa assumes a clinical research role in the ECHA. In line with her clinical psychology background, this includes conducting psychiatric interviews with participants in the GOS and VIP study. Lisa's research and clinical expertise includes women's reproductive health, paediatrics, and loss and grief, the latter of which is the focus of her Doctoral research.

Gosia Bucki-Smith BSc, MNutrDiet, Grad Dip Clin Trial Mgt.

Gosia is involved in collating fractures from the Barwon Statistical Division for the GOS-FracGrid, a fracture register that spans from 1997 to the present, using information provided from hospital patient information systems. Gosia also co-ordinates the Barwon Health-Deakin University research seminar program.

Amelia Morse BAppSci (Hons).

Amelia operates the bone densitometer for GOS and is responsible for collecting clinical data from the study participants. Many hours are also spent identifying incident fracture cases from radiology reports. Amelia uses this information to extend the GOS-FracGrid and identify participants for the ProFrac study.

Amanda Stuart BAppSci, BSc (Hons).

Amanda is the coordinator of the Geelong Bipolar Disorder Health and Lifestyle Study, for which she is responsible for recruitment, clinical assessments including bone mineral density (BMD) scans questionnaire data and pathology collection and storage. Amanda is also involved in data management for the ECHA studies and she analyses data and publishes manuscripts.

Elizabeth Timney BHlthSci, BSc (Hons).

The main focus for Elizabeth is to develop the GOS-FracGrid by comprehensively documenting all incident fracture cases from radiology reports. This entails liaising with computer programmers at Barwon Health and Promedius, and transferring information into the extensive study databases.

STUDENTS

Current PhD

Lelia De Abreu – Deakin University

Dysglycaemia in women.

Haslinda Gould – The University of Melbourne

Antecedents of home and aged care utilisation.

Jo Dipnall – Deakin University

The development of a clinical risk assessment tool for predicting depression.

Natalie Hyde – Deakin University

Gestational vitamin D and development in offspring.

Sarah Hosking – Deakin University

Understanding the role of health literacy in the prevention of osteoporosis.

Shae Quirk – Deakin University

Personality disorders, physical co-morbidities and health service utilization.

M. Amber Sajjad – Deakin University

An ecological study of chronic disease in western Victoria.

Completed

Amie Hayley – Deakin University, 2015

Sleep disruption and associated health outcomes.

GRANTS

1.	NHMRC Early Career Fellowship (GNT1012472)	Examining psychosocial determinants of osteoporosis	Brennan SL	2011-2014
2.	NHMRC Project Grant (628582)	Geelong Osteoporosis Study: Fracture risk prediction based on twenty years of prospective data	Pasco JA, Nicholson GC, Kotowicz MA, Henry MJ, Evans D	Duration 2010-2013, extended into 2014 - \$910,400
3.	NHMRC Project Grant (APP1026265)	Inflammatory cytokines as risk factors for the development of both depression and osteoporosis in men	Berk M, Pasco JA, Williams LJ, Jacka FN, Henry MJ	2012-2014
4.	NHMRC Project Grant (APP1021345)	Providing evidence for the primary prevention of the high-prevalence mental disorders in men: the role of diet in the aetiology of depression, anxiety, and psychological distress	Jacka FN, Berk M, Pasco JA, Williams LJ	2012-2014 - \$292,900
5.	NHMRC Project Grant (APP1009367)	Selective Serotonin Reuptake Inhibitors (SSRIs) and bone mineral density: Mechanisms and clinical consequences	Williams LJ, Hodge JM	Duration 2011-2013, extended into 2014 - \$409,140
6.	Australian Postgraduate Award	Gestational vitamin D and development in offspring	Hyde N	2013-2015

Epidemiology, Professor Julie Pasco (Continued)

7.	NHMRC Career Development Fellowship (GNT1064272)	Psychiatric disorders, psychotropic agents and bone health: from benchtop to bedside	Williams LJ	2014-2017
8.	NHMRC Postgraduate Scholarship (GNT1076347)	Personality disorders in the community: an epidemiological study	Quirk, SE	2014-2015
9.	BUPA Foundation	Maternal vitamin D in pregnancy and childhood growth	Pasco JA, Wark JD	2012-2015 - \$189,000
10.	Deakin University Central Research Grant Scheme (CRGS)	Does including depression in the Framingham Cardiovascular Risk Equation improve its predictive ability in women?	O'Neil A, Pasco JA, Lewandowski P, Williams LJ, Berk M, Atherton J, Fisher A.	2014 - \$20,000
11.	Western Alliance	Chronic disease, injury and ageing in western Victoria: opportunities to improve health delivery	Pasco JA, Kotowicz MA, Livingston T, Khasraw M, Hakkennes S, Dunning T, Brumby S, Page R, Pedler D, Sutherland A, Venkatesh S.	2015-2016 - \$100,000
12.	Education, Training and Research Profile Fund (Barwon Health)	Risk factors for gestational diabetes mellitus	Kotowicz MA, Pasco JA	2015 - \$30,000
13.	Alfred Deakin Postdoctoral Research Fellowship	Investigation of the psychosocial and socioeconomic disparities in osteoporosis and the uptake of osteoporosis-related healthcare using a multi-disciplinary approach	Brennan-Olsen SL	2015-2016
14.	Geelong City - Community Grants Program	Public forum on osteoporosis	Brennan-Olsen SL	2015 - \$2,000

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Community engagement

Public forum, November 2014

"Unbreakable: Building strong bones for life" delivered messages about how to achieve good bone health across the life course. Guest speaker, exercise physiologist Karen Binks, demonstrated how specific exercises are necessary to put stressors on bone. Attendees received a show bag containing interesting educational items.

Fracture Stack, August 2015

Dr Sharon Brennan-Olsen organised students at Ocean Grove Primary School to make a heap of plaster casts to represent the 750 fractures that occur every month in the Geelong region. The "fracture stack" was displayed at Deakin University's Waurin Ponds campus and Geelong's Market Square to raise awareness of osteoporosis and practices that build healthy bones throughout life. The event was held during National Healthy Bones Awareness Week.

KEY COLLABORATIONS

Dr Sharon Brennan-Olsen has been working in collaboration with Professor Bill Leslie at the University of Manitoba in Canada. Professor Leslie is the Director of the Manitoba Bone Density Program and an international research-clinician in the epidemiology of osteoporosis. In addition to developing joint publications, the continuation of this collaboration allows Dr Brennan-Olsen to examine the interchange between research and policy.

Dr Lana Williams has established strong links with Professor Otta Bjerkeset's research group at the Nord-Trøndelag Health Study (HUNT) Research Centre at the Norwegian University of Science and Technology in Norway. The HUNT has an extensive repository of personal and family histories, clinical measures and biomarkers. Data from this study, such as the effect of selective serotonin re-uptake inhibitors on bone fragility will complement data generated by the GOS.

Professor Julie Pasco and Associate Professor Mark Kotowicz are collaborating with Professor Didier Hans from the Centre of Bone Diseases, Lausanne University Hospital in Switzerland. The project focuses on determining Trabecular Bone Scores (TBS) for GOS participants using DXA scans. This data provides information about how trabecular bone microarchitecture contributes to fracture risk.

Dr Kara Holloway sustains collaborative links with the anthropology unit at the University of Zürich in Switzerland, working on historical skeletal collections.

Dr Lana Williams and Professor Julie Pasco are working with Dr Heli Koivumaa-Honkanen and Dr Risto Honkanen from the University of Eastern Finland. Mutual research interests have led to an interesting collaboration with the dual focus on both mental health and bone health.

The ECHA is working with Dr Yann Gibert from the Metabolic Research Unit at Deakin University on a project using zebra fish to study the effects of selective serotonin reuptake inhibitors (SSRIs) on bone growth. Professor Vincent Laudet from the Ecole Normale Supérieure de Lyon, France, is an expert in using this model and is now involved in this project led by Dr Lana Williams and also involving Dr Jason Hodge and Professor Julie Pasco.

Professor Julie Pasco established collaboration with Dr Peter Burkes from ActiveLife Scientific, makers of the OsteoProbe, a novel device for measuring bone indentation. This collaboration has flourished and now involves Associate Professor Mark Kotowicz and Dr Kara Holloway – who has travelled to the University of Barcelona, Spain, to be trained by the world expert in using this technology, Professor Adolfo Diez Perez.

MEDICINE

PROFESSOR DAVID ASHLEY

RESEARCH FOCUS

- Cancer-patterns of care improvement
- Cancer clinical quality registry

STAFF

Professor David Ashley MBBS, FRACP, PhD
Clinical Director

Dr Graham Pitson MBBS, Grad Dip Computing Studies, FRACR
Clinical Lead

Associate Professor Margaret Rogers BSc Hons, PhD
Data Analyst

Leigh Matheson B HIM, B. Hsc, B Ed
Health Information Management

Dr Violet Mukaro Bsc Hons, PhD, Grad Cert Pub Health
Project Officer

Brooke Garrard
Data Collection Officer

STUDENTS

Trish Banks Oncology Clinician
Manuscript Collaboration

Shu Fen Wong Masters Student
Manuscript Collaboration

MISCELLANEOUS

Members of the Data Quality Research Team, Barwon South West Regional Integrated Cancer Service are associated with a number of professional bodies including:

Dr Violet Mukaro

- AGITG (Australasian Gastro-Intestinal Trials Group)
- ANZBCTG (ANZ Breast Cancer Trials Group)
- COSA (Clinical Oncology Society of Australia)
- COSA - Clinical Trials Research Professionals Group Executive Committee
- COGNO (Cooperative Trials Group for Neuro-Oncology)

A more comprehensive outline of research conducted under the leadership of Professor Ashley can be found in the Cancer Services section on page 60.



A portrait of Professor David Ashley, a middle-aged man with grey hair and a beard, wearing a dark blue cable-knit sweater over a red and white checkered shirt. He is smiling and has his glasses perched on his head. A blue lanyard with a badge is around his neck. The background is a blurred indoor setting with warm lighting.

PERSONAL REFLECTION

PROFESSOR DAVID ASHLEY

As is often the case, my own personal motivations for a career in cancer research began in family illness. My father died of metastatic colorectal cancer, which was very aggressive and failed to respond to any conventional treatment in the early eighties.

I was in my twenties at the time and just completing my intern year at the Alfred Hospital. I felt determined to make a mark in understanding the scourge of cancer and making a contribution to the care of patients. I next trained at the Royal Children's Hospital where I completed my Specialist degree in Paediatric Oncology, this was followed by a PhD at Melbourne University in Cancer Research, and finally a fellowship in Adult Brain Tumour Clinical Care and postdoctoral research at the National Cancer Institute Centre for Malignant Glioma at Duke University.

Whilst the driver for my research may initially have been personal, I have had a wonderful career working with many dedicated and gifted people over three decades, and have seen cancer outcomes improve dramatically over that time. I would certainly recommend a career that combines both clinical care and research to anyone who has a similar personal experience and aspirations.

NURSING

PROFESSOR TRISHA DUNNING

RESEARCH FOCUS

The key focus of the Centre for Nursing and Allied Health Research (CNAHR) research program is improving the care of older people with diabetes. Key projects include:

- The McKellar Guidelines for Managing Older People with Diabetes in Residential and Other Care Settings at The McKellar Centre. The McKellar Guidelines became the official policy for managing older people with diabetes in residential aged-care in Barwon Health in August when they went live on PROMPT – the system for storing and managing documents approved as Barwon Health policies and guidelines. The McKellar Guidelines were also incorporated into the Platinum V electronic system. The McKellar Guidelines are available on the Australian Disease Management Association (ADMA) Integrated Chronic Disease Management Online Clearinghouse: http://www.adma.org.au/clearinghouse/cat_view/4-guidelines.html;
- The Quality Use of Glucose Lowering Medicines: The Q-Med Study. We completed the draft suite of information about glucose-lowering medicines for older people with diabetes, their family/carers and health care staff and commenced data collection to evaluate the information. Early feedback indicates older people with diabetes find the information developed for them very helpful;
- Pain in Older People with Diabetes–The POP-D study, and;
- Personalised diabetes-specific discharge care planning for older people with diabetes.

MAJOR ACHIEVEMENTS

CNAHR made a significant contribution to research, teaching, learning and clinical care in 2014-2015. Key highlights were:

- Completing the draft suite of information and commencing data collection for the Quality Use of Glucose Lowering Medicines: Q-Med Study;
- Publishing 17 peer-reviewed papers, one book, one book monograph, four other publications, presenting nine peer-reviewed conference presentations and delivering 20 invited presentations;
- Delivering four research and writing professional development workshops which were held throughout 2014. Between 10 and 21 people attend each workshop. Two workshops were held in the first half of 2015;

- Delivering the Annual World Diabetes Day Professorial Address, Medicines: The Human Side, during the Smart Geelong Network's annual Research Week at Barwon Health;
- Participating in three interviews conducted on 94.7 The Pulse FM Geelong public radio station to raise public awareness about Diabetes and to promote Diabetes Awareness Week and World Diabetes Day;
- Ms Nicole Duggan received a Major Grant for research from the Nurses Board of Victoria Legacy Limited. The grant is Nicole's first, and;
- Submitting an Australian Research Council Discovery application (CIs: Professor Trisha Dunning, Dr Sally Savage with Partner Investigators: Associate Professor Peter Martin and Associate Professor Neil Orford).

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Professorial visit: Professor Alan Sinclair. In February 2016 the CNAHR hosts the visit of an international scholar Professor Alan Sinclair, funded by the Barwon Health Education, Training and Research Profile Fund (ETRPF). The professorial visit will foster clinical knowledge exchange and research collaboration in managing older people with diabetes within Barwon Health. Professor Sinclair is an internationally recognised research expert in the care of older people with diabetes who has been collaborating with Professor Dunning and her team for a number of years. Professor Sinclair's visit will offer a unique opportunity for Barwon Health staff to discuss clinical issues concerning the care of older people with diabetes, showcase our existing care programs and services to Professor Sinclair, participate in an interdisciplinary, interactive seminar, and, importantly, to develop a program of research concerning diabetes and older people;

Finalising the Q-Med suite of information. In 2016 we will finalise the suite of information for the Q-Med Study, after receiving feedback during the evaluation process from older people with diabetes, their carers and health professionals. Once the information is professionally designed we will officially launch it and commence the dissemination process, and;

Developing and trialling the Discharge Planning information for older people with diabetes who are discharged from acute care.

STAFF

Professor Trisha Dunning AM, RN, Credentialed Diabetes Educator, MEd, PhD.

Chair in Nursing – Barwon Health and Deakin University, Director of the Centre for Nursing and Allied Health Research. Principal Investigator for the Q-Med Study, McKellar Guidelines Project and POP-D Study. Professor Dunning is an internationally recognised expert in diabetes care, author of numerous books, papers and chapters, and member of key national and international bodies including being Vice President, International Diabetes Federation (IDF) Board of Management since 2009.

Dr Sally Savage BA (Hons), DipEd, PhD.

Research Fellow – Investigator, Q-Med Study, POP-D Study and Discharge Planning project.

Susan Streat RN, Cert Midwifery, Cert Family Planning, BA.

Research Assistant – Involved in many aspects of CNAHR research projects and other activities, particularly the Research and Writing Workshops.

Nicole Duggan RN, Grad Cert Diabetes Ed, M Nurse Practice

Chief Investigator for the Discharge Planning project and Project Leader (VIC) for the Q-Med Study.

STUDENTS

PhD

Yen Yang

Thesis entitled, The lived experience of Chinese people with diabetes living in Australia. Supervised by Professor Trisha Dunning and Associate Professor Bodil Rasmussen.

Kantaporn Yodchi

Thesis entitled: How do Thai patients with End Stage Renal Disease Adapt to Being Dependent on Haemodialysis? Supervised by Professor Trisha Dunning, Dr Sally Savage and Associate Professor Alison Hutchinson.

Roslyn Gillies

Roslyn's project is entitled: Nurses and medicine dose calculations. Supervised by Professor S Groves and Professor Trisha Dunning.

Lisa-Jane Moody

Lisa-Jane's project is entitled: The Impact of Hearing Loss on Quality and Safety in Hospital. Supervised by Professor Trisha Dunning and Dr Sally Savage.

Trish Mant

Trish's project is entitled: Implementing a falls prevention strategy using the knowledge to action framework – an evaluation. Supervised by Professor Trisha Dunning and Dr Lucy Cuddihy.

Shu Fen Wong

Her project is entitled: Choices that influence cancer care in metropolitan and rural areas. Supervised by Professor David Ashley, Dr Paula Lornnelly and Professor Trisha Dunning.

Nicole Duggan

Her thesis is entitled: Community-dwelling older people with diabetes' perspective of diabetes self-care. Supervised by Professor Trisha Dunning and Dr Sally Savage.

Claire Gatto, co-supervised by Professor Trisha Dunning with Principal Supervisor, Bodil Rasmussen

Claire is completing a minor research thesis as part of her Masters degree.

GRANTS

1.	Commonwealth Department of Health and Ageing (now the Department of Social Services) Aged Care Services Improvement Healthy Ageing Grant (ACSIHAG)	The Quality Use of Medicines (QUM) and Glucose Lowering Medicines (GLM) in Aged Care (the Q-Med study)	CI: Professor Trisha Dunning, Dr Sally Savage, Ms Anne Hague	2013-2016 - \$600,000
2.	Nurses Board of Victoria Legacy Limited Major Grant	Personalised diabetes-specific discharge care planning for older people with diabetes	CI: Ms Nicole Duggan, Professor Trisha Dunning, Dr Sally Savage	2015-2016 - \$19,736
3.	Barwon Health Education, Training and Research Profile Fund (ETRPF)	Professorial visit to foster clinical knowledge exchange and research collaboration in managing older people with diabetes within Barwon Health	CI: Professor Trisha Dunning	2016 - \$15,307

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Local Affiliates

- Deakin University
- University of Melbourne
- GP Practitioners

International Affiliates

- Professor Alan Sinclair, Director, Diabetes Frail, in the UK,
- Professor Marit Graue, Bergen University College, in Norway

Reference/Consultant and Advisory Groups (Professor Dunning)

- Department of Health and Ageing (DoHA) Pharmaceutical Policy Branch
- Post market review of PBS medicines and products used for the treatment of diabetes 2013–2015
- Australian Commission for Quality and Safety in Health Care
- National insulin Inpatient chart pilot test advisory group since 2013
- Council of Therapeutic Advisory Groups
- Rethinking medicines decision-making in Australian Hospitals: Guiding Principles for the quality use of off-label medicine 2013–2014.
- Bergen University College
- International Expert on Diabetes Research Strategy: DiaBest Group since 2011
- Steno Diabetes Centre
- Expert Advisory Group to Steno-REACH project established to develop diabetes training programs for health professionals in Malaysia since 2014
- Koc University, Turkey
- Expert panel to apply for an EU grant for continuing education for diabetes educators since 2014

International Committees

- Vice President, International Diabetes Federation (IDF) Board of Management since 2009
- Member, IDF Consultative Section on Diabetes Education since 2013
- Member IDF Committee Fred Hollows Foundation Collaboration and subsequently appointed as a member of the IDF Fred Hollows Advisory Committee since 2013
- Member IDF Programme Committee Education and Behaviour Stream World Diabetes Congress (WDC) since 2013
- Member IDF Organising Committee Abstract Selection Committee, WDC since 2013
- Chair, IDF Ethics Committee since 2012
- Member, IDF International Affairs Committee since 2012
- Member, IDF Science Taskforce since 2012

Barwon Health

- Member, Research Week Organising Committee since 2007.
- Member, Research Review Committee
- Member, Nursing Leadership Committee (LINC)
- Member, Research Professoriate Committee
- Member, Barwon Health and Deakin Research Committee
- Member, Teaching, Training and Research Governance Committee
- Member, Hand Hygiene: Clean Hands, Best Care Research Working Group

Deakin University

- Member, School of Nursing and Midwifery, Professoriate
- Member, University Human Research Ethics Committee Geelong (DUHREC)
- Chair, Faculty of Health Human Ethics Advisory Group (HEAG)
- Member, Executive and General Committees, Centre for Quality and Patient Safety Research (QPS)
- Member, Student Supervision, Research and Teaching
- Australian Diabetes Educators Association (ADEA)
- ADEA representative on the Deakin University Advisory Committee for the Graduate Certificate in Diabetes Education
- Member, Graduate Certificate in Diabetes Education Curriculum Advisory Committee (CASP)
- ADEA Representative to the International Diabetes Federation Western Pacific Regional Council
- ADEA member, Research Advisory Group

National and State Committees

- Member, Diabetes Australia International Affairs Committee
- Member, Board of Management Diabetes Australia - Victoria
- Member, Diabetes Australia – Vic Clinical Advisory Committee
- Member, Diabetes Australia Policies and Programs Committee

Grant and Conference Abstract Assessment Panel

- Australian Diabetes Educators Association
- Barwon Health Sydney Parker Smith Grant Application Reviews
- Deakin University Grant Application Reviews
- Diabetes Australia Research Trust Grants (DART) Coordinate review of the education and behavioural research grant applications
- NHMRC Panel: Translational Research in Low and Middle Income Countries.
- Sigma Theta Tau International.

ORTHOPAEDICS

PROFESSOR RICHARD PAGE

RESEARCH FOCUS

Since its inception in 1998, Barwon Orthopaedic Research Unit has undertaken a wide range of studies encompassing the different disciplines of Orthopaedic surgery.

Over the past two years we have focussed on:

Shoulder Studies

- Impact of shoulder instability surgery on elite AFL footballers – in conjunction with the AFL and Deakin University
- Biological analysis of frozen shoulder tissue (Ad-CaB Study)
- Down under lesion- inferior labral tears in the shoulder
- Shoulder microfracture for chondral surface defects
- PyroTITAN trial – Novel material shoulder resurfacing

Wrist

- Outcomes of partial wrist fusions
- BioKin wrist kinematics with Department of Engineering, Deakin University

Hips

- Intraoperative THR leg length assessment

Randomised Clinical Trials

- HEALTH Study
- Total Knee Replacement -Tourniquet Trial

Trauma

Victorian Orthopaedic Trauma Outcomes Registry (VOTOR) Studies

- Demographics of Scapula Fractures in Victoria
- Association between perception of fault for the crash and function, return to work and health status one year after road traffic injury

Joint Reviews

- Socrates – Database holding approximately 5000 arthroplasty patients
- Arthroplasty Review Clinic Process Redesign
- Remote / TeleHealth Model of Arthroplasty Review

Collaborations

- PANACEA – Department of Anaesthesia and IMPACT SRC, Deakin University
- Paediatric Osteomyelitis Study-University of Melbourne –Department of Surgery
- Prosthetic joint Infections-Infectious Diseases Department and School of Medicine, Deakin University

MAJOR ACHIEVEMENTS

- Appointment of Professor Richard Page to St John of God Geelong Hospital and Barwon Health Chair of Orthopaedic Surgery, Deakin University
- Presentations at AOA, AORA, Shoulder and Elbow Society of Australia (SESA), ISAR (International Society of Arthroplasty Registers), EFORT (European Federation of Orthopaedics and Trauma)

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

- Post graduate mentoring-epigenetics osteoporosis and osteoarthritis
- Tissue studies/banking – based on the Ad-CaB Study
- Expansion of tissue collection study and analysis parameters

A photograph of Adam Watson, a man with short dark hair, wearing a dark suit jacket, a blue and white checkered shirt, and a dark tie. He is smiling and looking towards the right. In the background, a computer monitor displays two X-ray images of a knee joint. The text is overlaid on a white rectangular area in the lower-left portion of the image.

PERSONAL REFLECTION

ADAM WATSON

ORTHOPAEDIC FELLOW, 2015

I chose Barwon Health mostly because I had such a good experience here as a registrar. I found the hospital as a whole, and the orthopaedic unit specifically to be extremely easy to work with. They work well as a team and had the most cohesive attitude of any orthopaedic unit I had worked with. There is a culture of supporting each other and supporting their trainees.

I also enjoyed the support that is bestowed by the Barwon Orthopaedic Research Unit. Having a full-time research nurse to coordinate submission of ethics and papers is a luxury rarely seen. Also monthly research meetings that are well attended by consultants gives senior guidance to papers, that have helped me and many other trainees complete meaningful research. As such, I have published a randomised controlled trial on a type of fixation for hip fractures, and have had another paper accepted at an international meeting looking at the causes of a tear in a shoulder tendon.

Lastly, I am loving the opportunity to live on the surf coast, and explore Geelong and the Bellarine and all it has to offer.

STAFF

Professor Richard Page BMedSci, MB,BS, FRACS (Orth), FAOrthA

Chair of Orthopaedic Surgery and Director of Orthopaedics, Orthopaedic Shoulder and Upper Limb Surgeon,

Mr J Skelley

Orthopaedic surgeon

Mr B Miller

Orthopaedic Lower Limb Surgeon

Mr D Bowyer

Orthopaedic Lower Limb Surgeon

Mr S Williams

Orthopaedic Lower Limb Surgeon

Mr R Angliss

Paediatric Orthopaedic Surgeon

Mr Kevin Eng

Orthopaedic Shoulder and Upper Limb Surgeon

Mr Graeme Brown

Orthopaedic Surgeon

Mr Andrew Thomson

Orthopaedic Lower Limb Surgeon

Mr Chatar Goyal

Orthopaedic Lower Limb Surgeon

Bill Reynolds

Senior Clinician Physiotherapist

Sally Beattie, RN

Orthopaedic Research Co-ordinator

Amanda Cowland

Data Entry Clerk

Ali Jordan

PA to Professor Richard Page

Pam Kennedy

Administration, University Hospital Geelong

STUDENTS

1 x Honours Student (Deakin)

PhD

Gil Stynes – Melbourne University

Development of a skin bio-scaffold interface

Darcie Cooper – Deakin University

Prosthetic Joint Infection Study

Post Doctoral Researcher

Dr Sharon Brennan-Olsen

Post Doctoral Researcher

Orthopaedic Research Fellows, Registrars and Residents

- **Sina Babazadeh – Orthopaedic Registrar**
BioKin kinematics Projects, Fitbits usage in arthroplasty rehabilitation
- **Ferraby Ling – Orthopaedic Registrar**
Four corner wrist fusion + kinematics
- **Todd Mason – Orthopaedic Registrar**
Comparative study of leg length techniques/ ETS study
- **Adam Watson – Orthopaedic Fellow**
HAGL lesion arthroscopic outcomes /MRI subscapularis study and analysis of suture anchor orientation
- **Shaun Waring – Orthopaedic Registrar**
TKR Tourniquet study, Arthroplasty Reviews
- **Shane Clarke – Orthopaedic resident**
ETS measurements
- **Neill McCormack – Orthopaedic Resident**
VOTOR analysis of scapular fractures

GRANTS

1.	Western Alliance	Professor Julie Pascoe	2015-2106 - \$100,000
2.	AFL Research Trust	Professor Richard Page	2014-2015 - \$20,000
3.	Education, Training, Research, Profile Fund (ETRPF)	Professor Richard Page	2015 - \$31,875
4.	VORT	Professor Richard Page	2015 - \$8,750

CURRENT CROSS CAMPUS PROJECTS

- Shoulder Microfracture for early Osteoarthritis
- Subscapularis Tears – an MRI analysis of anatomic factors
- Inferior Labral tears in the shoulder – the Down Under Lesion
- The PyroTitan shoulder resurfacing Hemiarthroplasty study – International Multi-centre Study – Integra Health, USA
- BORU Joint Replacement Registry – Longitudinal Outcomes Study

PENDING ST JOHN OF GOD PROJECTS UNDER HREC SUBMISSION

- Adhesive Capsulitis (AD-CaB) Biomarker Study – successful regional grant funding with MMR Deakin University and Barwon Biomedical
- Wrist kinematics post partial wrist fusion (Biokin Kinematics) in conduction with Department of Engineering, Deakin University
- Prosthetic Joint Infection Biomarker Study – in conjunction with Department of Infectious Diseases, Barwon Health and MMR, School of Medicine, Deakin University
- Humeral Avulsion of the Glenohumeral Ligaments, an analysis of mid-term outcomes

MISCELLANEOUS

- Professor Richard Page – Chair Australian Orthopaedic Association National Joint Replacement Registry, Upper Limb Section
- Professor Richard Page – Co-Chair International Shoulder Arthroplasty Consortium (ISAC)
- Professor Richard Page – Member Orthopaedic Subcommittee, Therapeutics Goods Association

PAEDIATRICS

ASSOCIATE PROFESSOR PETER VUILLERMIN

RESEARCH FOCUS

- Associate Professor Peter Vuillermine leads the Child Health Research Unit (CHRU). The group is passionate about child health and committed to the generation of new knowledge regarding the best way to provide babies and children with a healthy start to life. Two significant research projects are run through the CHRU; the Barwon Infant Study (BIS) and the Environmental Determinants of Islet Autoimmunity (ENDIA).
- Barwon Infant Study (BIS) is a population derived birth cohort of 1074 infants. BIS is an investigation into the early life origins of a range of non-communicable diseases in the modern environment. There is particular focus on the relationship between the mother and infants commensal gut organisms and early life immune development. BIS is a partnership between Barwon Health, Deakin University and the Murdoch Children's Research Institute and has been primarily funded by the National Health and Medical Research Council. More details are available at: www.barwoninfantstudy.org.au
- Environmental Determinants of Islet Autoimmunity (ENDIA) is birth cohort study that will follow mothers/children who have a first-degree relative with Type 1 Diabetes to investigate a number of environmental factors that are believed to contribute to the development of islet autoimmunity and Type 1 Diabetes. ENDIA is a national study hoping to recruit over 1400 pregnant mothers across the country. There are many parallels with BIS and synergies between the project. www.endia.org.au/about/the-endia-study

MAJOR ACHIEVEMENTS

Research Breakthroughs

- The first evidence that the early life microbiome may influence early markers of progression toward cardiovascular disease (manuscript in review).
- The first evidence that a hyper-responsive innate immune system at birth drives non-classic Th2 (allergy-associated) immune development among infants with subsequent food allergy (manuscript in review).

LOOKING FORWARD – ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

The research team in the Child Health Research Unit are looking forward to the year ahead, especially reaching the following milestones;

- Move to new specially designed office and clinic space in the Health Education and Research Building
- Conclusion of the BIS 2 year follow-up reviews and subsequent analysis of resulting invaluable neurodevelopment data
- Begin the process of designing the proposed BIS 6 year follow-up
- Initial 12 months of active recruitment and follow-up of ENDIA families

Publications regarding:

- The maternal and infant microbiome and food allergy
- The maternal and infant microbiome and cardiovascular risk
- Exposure to modern chemical and neurodevelopment

STAFF

Associate Professor Peter Vuillermin – Child Health Research Unit Director – Peter is a general paediatrician and researcher with a particular interest in the early life origins of immune dysregulation in the modern environment.

CHRU Members

Catherine Lloyd-Johnsen

Project Coordinator

Jasmin Foster

Research Assistant

Georgie Smith

Research Assistant

Nakita Clements

Research Assistant

Sarah Kruse

Research Assistants

CHRU Laboratory Members

Dr Fiona Collier

Danielle Kennedy

Carling Southall

Minh Bui

STUDENTS

PhD

John Molloy

PhD project titled "Modifiable early life risk factors for IgE mediated food allergy"

Kate McCloskey

PhD project titled "The early life origins of cardiovascular disease"

Christos Symeonides

PhD project titled "Environmental exposure to industrial chemicals and neurodevelopment in the first 2 years of life in the Barwon Infant Study"

Lisa Bell

PhD project titled "The relationship between physical activity, adiposity, inflammation and progression toward cardiovascular disease"

Masters of Psychology

Georgie Smith

Sandy Burnett

GRANTS

1.	Ilhan Foundation	The relationship between dietary fibre, large bowel short chain fatty acids and food allergy in infants	Peter Vuillermin, Katie Allen, David Topping	2014 - \$42,000
2.	NHMRC Partnership Grant (ref 1076667)	Biomonitoring early life exposure to plastic products in Australia and assessing health consequences	Anne-Louise Ponsonby, Peter Sly, Peter Vuillermin, Christos	2014 - \$392,671
3.	NHMRC Project Grant (ref 1082307)	The relationship between maternal and infant dietary intake of fermentable fibre, gut microbiota, short chain fatty acids and allergic disease and asthma: a population-derived birth cohort study	Peter Vuillermin, Anne-Louise Ponsonby, Katie Allen, Yuxia Zhang, Mimi Tang, Richard Saffery, Karen Nelson, David Topping, Michael Conlon	2015-2019 - \$843,749.10
4.	NHMRC Project Grant (ref 1084017)	Methylation-sensitive T cell genes and childhood food allergy	Richard Saffery, Katrina Allen, Peter Vuillermin, David Martino	2015-2016 - \$450,879
5.	Research Equipment Support Scheme (RESS)	New Flow Cytometer	Peter Vuillermin, Michael Berk, Fiona Collier	2015 - \$95,000
6.	Education, Training and Research Profile Fund (ETRPF)	Pregnancy Sex Hormone Levels: Do they Influence Immune Cell Development in the Newborn and Modulate the Risk of Food Allergy?	Fiona Collier	2015 - \$20,000

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Community engagement

- Barwon Infant Study has been featured in the Geelong Advertiser throughout 2015 regarding allergies in children.
- Peter Vuillermin has initiated a series of webinars that are designed to inform BIS participating families of recent findings arising from BIS. We have received positive feedback from attendees who have enjoyed the opportunity to join from the comfort of their own homes and take part in live question-and-answer sessions with paediatric researchers.

International/National affiliations

- Peter Vuillermin has led multidisciplinary collaborations for BIS with researchers from MCRI, WEHI, CSIRO, and J. Craig Vente Institute in the US.
- Peter Vuillermin is a member of the World University Network INFLAME consortium with a lead role in establishing Standard Operating Procedures for clinical outcome measures in international birth cohort studies
- Child Health Research Unit is now a participating site for the collection of lung function data in the International Collaboration to Improve Respiratory Health in Children.

PSYCHIATRY

PROFESSOR MICHAEL BERK

RESEARCH FOCUS

AIMS

- IMPACT, the Centre for Innovation in Mental and Physical Health and Clinical Treatment, is an integrated, multidisciplinary Strategic Research Centre (SRC) of Deakin University, co-located at Barwon Health that focuses on the clinical interface with a specific focus on mental and physical health, and the development of clinical treatments.
- The main aim of this Strategic Research Centre is to have an impact on mental and physical health, by conducting rigorous research into risk factors and developing clinical treatments that have actual translational value.

OBJECTIVES

- To discover factors associated with good health and with illness
- To develop and evaluate interventions that improve health
- To achieve recognition from national and international peers as world class medical researchers
- To conduct clinical trials of new treatments and interventions in selected populations
- To develop and study datasets of health information
- To collaborate with other medical researchers at Deakin University, and national and International researchers
- To support a research by higher degree program, train and mentor early career post-doctoral researchers and foster an interest in research in medical students, registrars and consultants
- To obtain major competitive grant funding, publish in high impact academic journals

MAJOR ACHIEVEMENTS

- Professor Michael Berk won the 2015 Brain and Behaviour Research Foundation Colvin Prize for Outstanding Achievement in Mood Disorders Research
- Dr Sharon Brennan was awarded an Alfred Deakin Scholarship and the Vice-Chancellor's Early Career Research Award for Research Excellence
- Shae Quirk (IMPACT Student) won best student presentation and received a Grant in Aid at the Society for Mental Health Research Annual Conference
- Natalie Hyde won an Australian Postgraduate Award and the Audience choice award at the 2014 Barwon Health Research Week, and was nominated for the early career researcher of the year as well as being nominated for a poster prize at the Australian and New Zealand Bone and Mineral Society conference
- The SRC continues to develop strong collaborative links with health service providers including Barwon Health, research centres within Deakin University – including Patterns Recognition and Data Analysis (PRADA), Centre for Molecular and Medical Research, Centre for Mental Health and Wellbeing, Centre for Science, Engineering and Built Environment and Deakin Population Health - and multiple international partners in countries including the USA, Brazil, Denmark, Portugal, Canada, Thailand, Spain and China.

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

IMPACT SRC takes full advantage of its location within a major hospital and its access to clinical resources and expertise. It also capitalises on being Geelong-based through epidemiological studies nested in the Barwon Statistical Division and Clinical Studies that recruit participants within the Geelong region. In the next 12 months we will:

- Continue to explore novel therapies with potential utility for people with psychiatric disorders
- Collect data that determines treatment efficacy and to investigate multiple secondary hypotheses
- Utilise novel technologies to discover novel therapies

A portrait of Brisa Fernandes, a woman with dark, wavy hair, wearing a dark blue blazer. She is looking slightly to the right of the camera with a gentle smile. The background is a blurred outdoor setting with vertical lines, possibly a building facade.

PERSONAL REFLECTION BRISA FERNANDES

I am a psychiatrist and scientist from Brazil. My main research field focuses on the discovery and application of biomarkers in severe mental illnesses; namely bipolar disorder, major depressive disorder, and schizophrenia. I work with a mixture of basic and clinical research, what is called translational medicine. It refers to making discoveries in basic science and then applying it in useful ways to society. I am an active researcher, with more than 28 articles in peer-reviewed journals, an H-index of 15 and more than 1,000 citations (Google Scholar, July 2015). Currently, I hold a research grant from CNPq (Brazilian National Council for Scientific and Technological Development) and a very competitive grant with high rejections rate. My PhD thesis focused on the role of peripheral BDNF as a biomarker across the schizoaffective spectrum and establishes that BDNF is a potential biomarker of disease activity for the acute phases of bipolar disorder and major depressive disorder. My thesis originated two papers that were published in *Molecular Psychiatry*, the leading journal in my field, in 2013 and 2014.

I first became interested in research as a small child. I remember having a notebook where I would write “formulas” that I created besides the “results” of small experiments. I have always liked to read, and used to read and look at the planets in an astronomy encyclopaedia. But I think it was when I read the history of Archimedes that I really thought that to discover things was the most exciting thing in the world.

Presently, I am a post-doctoral Research Fellow at Deakin University’s School of Medicine, under the supervision of Professor Michael Berk. I came to Australia because I had been working with Michael on a clinical trial on N-acetylcysteine, a potential drug for treating bipolar depression. The trial had a site in Brazil where I worked in 2008. I am now working to identify psychiatric biomarkers to define which ones would be better targets for use in the clinical practice, essential for the development of a personalized medicine.

- Use statistical techniques to investigate medical, lifestyle and social outcomes associated with mood, anxiety and personality disorders
- Conduct observational population-based studies to measure the burden of bone, joint and metabolic disorders, and identify risk factors and social and environmental determinants for disease
- Elucidate the associations between diet and mental health
- Translate our findings to influence clinical practice and public health policies
- Disseminate our findings into the public arena for the layperson
- Grow collaborative and networked partnerships, within Deakin University and Barwon Health as well as nationally and internationally
- Continue to seek competitive grant funding.

STAFF

Professor Michael Berk

Director

Professor Julie Pasco

Deputy Director

Associate Professor Seetal Dodd BSc DipEd MSc PhD

Clinical Associate Professor - Associate Professor Dodd has an interest in treatments for psychiatric disorders, drug safety, tobacco-use disorders, illness staging in psychiatry, nocebo and placebo, and the investigation of variables associated with differences in clinical outcomes.

Dr. Olivia Dean BSc (Hons) PhD

Director of the Clinical Trials Division of the Innovations in Mental and Physical Health and Clinical Treatments Strategic Research Centre (IMPACT SRC) and Research Fellow with the School of Medicine, Deakin University. Dr Dean is currently involved in several areas of research including oxidative biology and inflammation in depression, mitochondrial dysfunction in bipolar disorder, and investigations of molecular markers of psychiatric illness. Her research program includes collaborations with a multitude of research groups including groups in Australia, France, South Africa, Thailand, Brazil, Portugal and Denmark.

Dr Lana Williams BPsych, Grad Dip App Psych, MPsych (Clinical), PhD, MAPS

Dr Williams is a NHMRC Career Development Fellow and Psychologist with demonstrated expertise in psychiatric

epidemiology and a special interest in the co-occurrence of physical and mental disorders. She currently is the Head of the Division of Psychiatric Epidemiology, School of Medicine, IMPACT Strategic Research Centre, Deakin University. Over the past 10 years, Dr Williams has been developing an innovative program of research examining medical, lifestyle and social correlates of mood, anxiety and personality disorders within the community. The cornerstone is her work investigating the interplay between psychiatric disorders, medications used to treat these disorders and bone health, which has attracted extensive project funding and personal awards.

Associate Professor Felice Jacka BA, Pgrad Dip Med Sci, PhD

Associate Professor (Research), Associate Professor Jacka's research focus is on the nexus between diet and mental health. Associate Professor Jacka is President of the International Society for Nutritional Psychiatry Research (ISNPR)

Dr Sharon Brennan-Olsen PhD (Epidemiology)

Monash University; Graduate Certificate of Advanced Learning and Leadership (Management), The University of Melbourne; BA(Hons) (Sociology), Deakin University - Alfred Deakin Postdoctoral Research Fellow, and Head of Social Epidemiology Division.

Dr Brennan-Olsen's interests are in the social determinants of health outcomes, and health service utilisation.

Dr Ajeet B Singh MD MBBS MPsych MD FRANZCP

Dr Singh is an Academic Private Psychiatrist. Dr Singh has received his medical degree, masters, and doctorate from The University of Melbourne. He's a Taskforce Member on 'Genetic Tests in Psychiatry' for The International Society of Psychiatric Genetics (ISPG), and Member of The Clinical Pharmacogenetics Implementation Consortium (CPIC) based at Stanford University. Dr Singh is a Senior Clinical Lecturer and Honorary Research Fellow at the School of Medicine, Deakin University.

Dr Kara Holloway BSc Biotech, BSc Hons, PhD

Postdoctoral Research Fellow - Dr Holloway is currently working on a number of projects assessing the epidemiology and risk factors associated with fracture in a representative sample of the Australian population by drawing information from the ongoing Geelong Osteoporosis Study (GOS). Her aims are to estimate the public health costs associated with morbidity and mortality of fractures during the entire life course and provide important and useful outcomes for fracture treatment and prevention.

Dr Carolyn Coulson BA, Grad dip Psych, MPsych (clinical), PhD

Dr Coulson's interests are in clinical assessment and psychological treatment of mental health disorders.

Dr Helen McKenzie MBBS - Research Assistant

Dr McKenzie is a research assistant on the Minocycline Trial. Dr McKenzie works in adult mental health, particularly areas of mood and substance use disorders.

Amanda Stuart AppSci (Hons) - Research Fellow

Amanda Stuart is a psychology graduate with significant interest and experience in clinical epidemiology. She is currently working as a research fellow on collaborative projects between the Divisions of Psychiatry and Epidemiology and Biostatistics within the School of Medicine, Deakin University.

Brianna Doolan B.A Media and Communication majoring in Literary Studies and Journalism

Communications officer and Research Assistant. Her interests revolve around communications and social media and their role in targeted interventions for specific populations.

Penny O'Brien BA/BSW (Honours) - Research Assistant (YoDA A clinical trial)

Penny O'Brien's practice experience is primarily based in working with involuntary clients in statutory programs, specifically child protection and youth justice. Areas of interest include; family violence, attachment (in the context of child development and parenting), child and youth mental health, trauma and neglect (specifically for children and young people), social determinants of health and social work practice with CALD and Aboriginal and Torres Strait Islander clients.

Thais Martini MSc, Journalist and PhD student of Psychiatry at UFRGS, Brazil - Visiting Researcher

Thais Martini's interests are in social networking sites and internet, focused in mental health and social behaviour and functioning.

Thaïse Mondin MSc

Her interest are in biological rhythms, lifestyle and mood disorders. Also, sleep duration and dietary patterns.

Gosia Bucki-Smith BSc (Monash) MND (Deakin) GradCertCTMgt (UC) - Research Fellow

Gosia Bucki-Smith is currently involved in research that is focused on fracture incidence in the population. She also has an interest in nutrition and its impact on health and disease and a particular interest in autoimmune diseases.

STUDENTS

PhD

Sue Lauder

Moodswings 2.0 Online Intervention. The MoodSwings program is an online, self-help program. It offers adjunctive psychosocial tools and information to help manage bipolar disorder.

Emma Gliddon

Evaluating Discussion Engagement in an On-Line Self Help Program for Bi-Polar Disorder (www.moodswings.net.au). This project evaluates the impact of discussion board engagement on psychosocial outcomes (such as social support, quality of life and stigma) as well as intervention adherence, and attempts to identify key differences between active and passive discussion board users.

Dr Steven Moylan

Links Between Anxiety and Smoking. This project will provide new insights into the development of normal and pathological anxiety throughout the developmental periods, and how cigarette smoking may interfere with this process. These insights could be utilised in anti-smoking campaigns, and also, as a template for further understanding of what influences the development of anxiety disorders.

Rothanthi Daglas

A Comparison of Neurocognitive Functioning in first Episode Mania Patients treated with Quetiapine Vs. Lithium: A 12 Month Follow Up

The notion of complete inter-episodic recovery in bipolar disorder has been challenged in recent years. Evidence has indicated that cognitive impairments exist during both the acute and euthymic episodes of illness. However, the cognitive functioning of individuals during the early stages of illness remains under investigated. The usual treatment for mania is a combination of lithium and antipsychotics. The purpose of this study is to increase our understanding of the effectiveness of lithium and the atypical antipsychotic quetiapine on cognitive changes caused by the early stages of the disease process.

Shae Quirk

Personality Disorders in the Community: An Epidemiological Study of the Association with Mental and Physical Health Disorders and Health Service Utilisation. From a public health perspective it is essential to plan for and anticipate the health care needs of the Australian population, and for bridging the gap between physical and psychiatric Health Systems. However, the current mental and medical help-seeking behaviours of Australians living with personality disorder are largely unknown. The aim of this project is to investigate the prevalence of personality disorders in Australian women participating in the Geelong Osteoporosis Study (GOS) as well as the associations with physical health conditions and utilization of medical and mental health care.

Amie Hayley

Clinical and Epidemiological Studies of Sleep. Disruptions to the sleep/wake cycle are recognized to have a variety of negative effects to both physiological and psychological systems. Excessive Daytime Sleepiness (EDS) constitutes a common complaint among patients attending sleep clinics, and epidemiological research has suggested that 12-20 per cent of the general population experience these symptoms. To date, however, there is a paucity of information available investigating the impact of EDS and associated lifestyle and health factors in a representative group of Australian adults. Our research progress within this area has been significant, resulting in five accepted original manuscript publications and several awaiting submission.

Joanna Dipnall

The use of Machine Learning and Data Mining in the Development of a Clinical Risk Index for Depression. In Australia, depressive and anxiety disorders are increasingly common, seemingly affecting people of younger and younger ages. The impact of these psychological disorders on both the individual and society is far-reaching, with a detrimental impact upon the psychological, social and economic elements of everyday life. The aim of this research study is to use machine learning and data mining techniques to identify risk factors for depression so as to develop a clinically useful tool for predicting depression.

Kristi-Ann Villagonzalo

Redox Biology and Autism. This study is investigating the efficacy of the antioxidant precursor, N-acetylcysteine (NAC) as a treatment for children with autism. Autism is a pervasive developmental disorder, comprising of impairments in communication and social interaction, as well as repetitive or stereotyped behaviours or interests. Recent evidence has shown children with autism to have imbalances in their antioxidant defences, resulting in oxidative stress and cellular damage. It has been shown that the primary antioxidant in the brain, glutathione, is decreased in these children. This study aims to investigate the effects of increasing the amount of available glutathione by administering NAC. The double blind, randomised trial was completed in early 2014, with a total of 103 children taking part, with half receiving the NAC treatment and the other half receiving a matched placebo.

Sarah Dash

Biological Pathways that mediate the Link between Diet and mood. The bacteria living on and within our bodies - termed "microbiota" - play a significant role in maintaining health and balance within many of the body's systems. Bacterial colonisation begins at birth and continues to be influenced across the lifespan by a range of factors including genetics, antibiotic use, geography and, most relevant to this project, diet. The role of microflora to health outcomes and disease risk has been relatively overlooked until recently, partly due to lack of appropriate technology, as well as to the challenges of identifying the type and function of innumerable bacteria. Recent research has linked poor gut health with inflammatory and autoimmune disease, asthma, gastrointestinal disorders and mood and behaviour.

Haslinda Gould

Antecedents of Aged Care Service Utilisation in a Sample of Older Australians: Prospective Data Linkage Using Government Administrative Records. The study method involves data linkage between information collected over a period of 20 years from participants enrolled in the Geelong Osteoporosis Study (GOS) and government administrative records. The burgeoning older population in Australia poses a significant challenge to the aged-care system, and avoiding or delaying the use of aged-care services is likely to have downstream social and economic benefits. This research will provide a sound evidence base that will inform public health messages about healthy ageing and maintaining independence.

Natalie Hyde

Gestational Vitamin D and Development in Offspring. The Vitamin D in Pregnancy (VIP) study's initial findings showed impaired growth and development in offspring born to vitamin D-deficient mothers. The study is currently in its final stages of recruitment for its 10 year follow-up phase and aims to determine whether these observed effects are transient or maintained into childhood. Currently much conjecture exists with regards to optimal vitamin D levels during pregnancy for ideal offspring development and thus there is a vital need for new data that policy makers and practitioners can use to formulate an evidence-based healthcare approach to vitamin D nutrition and sunlight exposure during pregnancy.

Lelia de Abreu

Dysglycaemia in Women. Lelia was enrolled as a PhD candidate with the IMPACT SRC team in August 2014. She joins our team from Brazil after completing a Bachelor of Nursing and a Masters in Nursing, with a focus on diabetes. She has also worked in the Public Health sector as a registered nurse for a number of years.

Sarah Hosking

Osteoporosis, Health Literacy and Health Service Utilisation: Informing the Evidence-Base to Improve Osteoporosis Prevention and Related Healthcare. This project aims to investigate potential links between

health literacy, knowledge of osteoporosis-prevention guidelines and utilisation of health services. This information will help to ensure that in the future we will be better placed to develop interventions to support the effective translation of osteoporosis-prevention guidelines for the Australian public.

Dr Frank Giorlando

Dissociation and Changes in the Perception of Time. Our studies have shown that changes in time perception accompany mood changes in bipolar disorder and that we can measure the changes in brain activity that accompany specific time estimation measures. Importantly there is a strong link between time perception and dissociative symptoms, which we hope to explore further in different populations with mental illness.

Amber Sajjad

Describing the burden of chronic disease and injury in western Victoria. The project forms part of the Ageing, Chronic Disease and Injury (ACDI) study aimed at describing the burden of chronic disease and injury in western Victoria. Data will be obtained from chronic disease registers (Victorian Cancer Registry, National Diabetes Services Scheme etc.) and estimates of chronic disease burden will be reported by age, sex and location of residence. Associations between disease burden and variations in socioeconomic status, remoteness and accessibility to health services will be investigated.

GRANTS

1.	NHMRC Project Grant (APP1027315)	Proof of principle of the inflammatory and oxidative theory of depression: A treatment study	Cls: Berk M, Chanen A, Harrigan S, Davey C, Hetrick S, Dean O, Dodd S.	2012-2016 - \$1,475,510.00 over five years
2.	NHMRC Project Grant (APP 1021347)	Diet as a therapeutic target in depression: A randomised controlled trial	Cls: Berk M, Jacka F, Castle D, Brazens L, Itsiopoulos C.	Three years commencing 2012, extended to 2015 - \$481,810
3.	NHMRC Postgraduate Scholarships Grant (APP1076347)	Personality disorders in the community	Quirk S.	2013-2015 - \$31,886.83
4.	Australian Rotary Health/Ian Parker Bipolar Research Fund PhD Scholarship	Assessing an online psychotherapy program for bipolar disorder	Gliddon E.	2013-2015 - \$87,000

5.	Meat and Livestock Australia	Characterisation of dietary intakes and nutritional status of people with major depression and exploration of associated biological mechanisms	Jacka F, Itsiopoulos C, O'Neil A, Szymlek-Gay E, Castle D, Berk M.	2013-2016 - \$250,000
6.	Stanley Medical Research Institute	D-fend-Vitamin D First Episode Neuroprotection Design. Randomised clinical trial. SMRI Grant Application 13TAF-1687	Gaughran F, McGrath J, Smith S, McGuire P, Berk M, Taylor D	2013-2015 - \$1,443,293
7.	NIH R34 grant	A randomized trial of Internet based interventions for bipolar disorder – Moodswings 2.0	CIs: Berk M, Suppes T, Castle D, Cosgrove V. Lauder S, Berk L.	2013-2015 - \$436,612USD
8.	BUPA Foundation	Maternal vitamin D in pregnancy and childhood growth	Pasco JA, Wark JD	2012-2015 - \$189,000
9.	Australian Postgraduate Award	Gestational vitamin D and development in offspring	Hyde N	2013-2015 - \$76,175
10.	Australian Rotary Health /Ian Parker Bipolar Research Fund PhD Scholarship	Assessing an online psychotherapy program for bipolar disorder	Gliddon E.	2013-2015 - \$87,000
11.	NHMRC Established Career Fellowship. APP1059660	Novel therapies, risk pathways and prevention of mood disorders	Berk M. (GNT1064272)	2014-2018 - \$822,925
12.	NHMRC Career Development Fellowship (APP1064272)	Psychiatric disorders, psychotropic agents and bone health: From bench top to bedside	Williams L.	2014-2018 - \$404,884
13.	NHMRC Project Grant (APP1078928)	Gene Expression Signature Technology to Repurpose Drugs for Bipolar Disorder	Walder K, Berk M, Leboyer M	2015-2017 - \$467,203
14.	NHMRC Project Grant (APP1081901)	ASPREE-D; Aspirin in the prevention of depression in the elderly	CIA: Berk M, McNeil J, Neilson M, Shah R, Woods R, Mohebbi M.	2015-2018 - \$767,593
15.	NHMRC TCR (APP1042666)	The Fish Oil Youth Depression Study: A randomised, double blind, placebo-controlled treatment trial	Amminger, McGorry, Hickie, Yung, Mackinnon, Berk, Davey, Hermens	2014 - \$1,150,425
16.	Alfred Deakin Postdoctoral Research Fellowship	Investigation of the psychosocial and socioeconomic disparities in osteoporosis and the uptake of osteoporosis related healthcare using a multi-disciplinary approach	Brennan-Olsen S.	2015-2016
17.	Deakin Vice-Chancellor's Early Career Research Award for Research Excellence		Brennan SL	2014 - \$5000
18.	Brazilian Society Mobility Program "Ciências sem Fronteiras"		Dean OM	2014 - R\$235,308.44

19.	Research Equipment Support Scheme, Deakin University	3D Bioprinting Facility for Organ and Food Printing Research. ID: RM27615	Kouzani, Kanwar, Berk, Keast, Francis, Littlefair, Gibson, Kong, Kaynak, Khoo	2014 - \$115,000
20.	Centre for Quality and Patient Safety (QPS) Research, Deakin University	Identifying predictors for clinical deterioration in telephone-based mental health triage	Sands N, Considine J, Elsom S, Keppich Arnold S, Corbett R, Berk M.	2014 - \$23,905
21.	Simons Foundation Autism Research Initiative - SFARI. Pilot Grant	Efficacy of N-Acetyl Cysteine in Autism	Berk, Dodd, Dean, Gray, Tonge	\$244,256.00 – 2 Years
22.	AstraZeneca D1443C00002	Neuroprotective Properties of Quetiapine versus Lithium in a First Episode Mania Cohort: 12-month Neuroanatomical, Neurochemical and Neuro-cognitive Effects and Preliminary Data of Prophylactic Properties	Berk, Hallam, Lucas, Macneil, Hasty, Kader, O'Regan, Callaly, Conus, Damodoran, Brotchie, Pantelis, Yucel, McGorry	\$1.68 million
23.	Stanley #14T-007	The efficacy of adjunctive <i>Garcinia mangostana</i> Linn (mangosteen) pericarp for the treatment of Schizophrenia: A double-blind, randomized, placebo-controlled trial	Berk, McGrath, Dean, Dodd, Cotton.	2015-2017. \$899,398
24.	Simons Foundation Autism Research Initiative – SFARI #201473. Pilot Grant	Efficacy of N-Acetyl Cysteine in Autism	Berk, Dodd, Dean, Gray, Tonge	2012-2015 - \$244,256
25.	AstraZeneca D1443C00002	Neuroprotective Properties of Quetiapine versus Lithium in a First Episode Mania Cohort: 12-month Neuroanatomical, Neurochemical and Neuro-cognitive Effects and Preliminary Data of Prophylactic Properties	Berk, Hallam, Lucas, Macneil, Hasty, Kader, O'Regan, Callaly, Conus, Damodoran, Brotchie, Pantelis, Yucel, McGorry	\$1.68 million
26.	Cooperative Research Centres: CRC for Mental Health	Program leaders are: <ul style="list-style-type: none"> • Professor Ralph Martins (Edith Cowan University) • Professor Colin Masters (Mental Health Research Institute) • Professor Mal Horne (Florey Neurosciences Institute) • Professor Ian Everall (the University of Melbourne) • Professor Brian Dean (Mental Health Research Institute) • Professor Assen Jablensky (University of Western Australia), and • Professor Michael Berk (Barwon Health) 		Seven years commencing 2011 - \$23.1million
27.	Deakin University Central Research Grant Scheme (CRGS)	Does including depression in the Framingham Cardiovascular Risk Equation improve its predictive ability in women?	O'Neil A, Pasco JA, Lewandowski P, Williams LJ, Berk M, Atherton J, Fisher A.	2014 - \$20,000

SURGERY

PROFESSOR DAVID WATTERS

RESEARCH FOCUS

- Colorectal Surgery
- Surgical Audit
- Safety and Quality
- Surgical Education
- Intestinal Microbiota
- Information Technology in Health Care
- International Health
- Surgical History
- Breast and Bowel Cancer Population Study

MAJOR ACHIEVEMENTS

- Professor David Watters, Director of Surgery was awarded the Order of the British Empire (OBE) for his work in PNG.
- Dr Patrick Mahar was the first PhD candidate to graduate through Department of Surgery, Deakin University in November 2014.
- Department of Surgery was awarded a Certificate of Achievement by Barwon Health in Elective Surgery Performance for *Clearing The Long Waiting Patient List – Our two year journey*.
- *ANZAC Surgeons of Gallipoli* edited by David Watters and Elizabeth Milford was published early 2015 to commemorate the centenary of the Dardanelles campaign.
- Text book chapter titled *Vitamin B12 and cognitive impairment* published 2015 in "Diet and Nutrition in Dementia and Cognitive Decline" edited by Colin Martin, Victor Preedy.
- Best Quality Assurance and Audit in Surgical Practice for the research paper titled *Post-operative mortality rates: How long is enough?* Awarded to Roshan Ariyaratnam, Douglas Stupart and David Watters at the RACS Annual Scientific Congress, Annual Scientific Meeting, Singapore 2014.
- Deakin University Barwon Health Research week 2014 Competition Most Outstanding HMO Presentation for the project *Mortality Rates after Emergency Laparotomy in a Regional Australian Hospital* awarded to Roshan Ariyaratnam.

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

The Department of Surgery, Deakin University has a strong research focus and productive publication output. Anticipated highlights over the next 12 months include the completion of two PhD degrees, a Masters of Surgery, the outcomes of prospective studies and the writing and publishing of research findings.

STAFF

Professor David Watters OBE ChM FRCSEd FRACS

Director of Surgery at University Hospital Geelong, Barwon Health

President of the Royal Australasian College of Surgeons

Consultant Surgeon with University Hospital Geelong, Barwon Health

Interest/Specialty: Endocrine, Emergency, Colorectal Surgery, Tropical Medicine, Surgical Education, Surgical History

Associate Professor Glenn Guest MBBS FRACS BSc (Hons)

Associate Professor of Surgery with Deakin University

General/Colorectal Surgeon with University Hospital Geelong, Barwon Health

Supervisor of General Surgical trainees for University Hospital Geelong, Barwon Health

Director of the RACS AusAid Timor Leste Surgical Program

Interest/Specialty: Colorectal and Minimally Invasive Surgery, Surgical Education, Health in Developing Countries

Mr Douglas Stupart MBChB FCS (SA) FRACS

Senior Lecturer in Surgery with Deakin University

Consultant surgeon with University Hospital Geelong, Barwon Health

Interest/Specialty: Colorectal Surgery, Laparoscopic Surgery, Surgical Education, Intestinal Microbiota, Lynch Syndrome

Dr Eileen Moore BSc (Hons) PhD

Medical Research Scientist

Interest/Specialty: Intestinal Microbiota, Biochemical Markers of Disease, Digital Repository

Ms Christine Campbell BNurs

Clinical Information Co-ordinator

Interest/Specialty: Surgical Audit and Risk Management, General and Colorectal Surgery Databases

Ms Stephanie Kempton BBSc (Hons) M. Psych (Neuro) CCN MAPS

Clinical Information Project Officer

Interest/Specialty: Trauma Audit

Ms Sharon Lewis BSc (Hons)

Clinical Information Project Officer

Interest/Specialty: Trauma Audit

Ms Anne Vandewater Adv. Dip of Management, CPM AAPM, Dip of Business

EA to the Director of Surgery

Executive/Business Administration, Research Support and Roster Management

STUDENTS

Dr Andrew Cheng MBBS BMedSci

Higher degree: Current PhD Candidate (Commenced 2014)

Research topic: Postoperative Atrial Fibrillation after Cardiac Surgery

Dr Wendy Crebbin PhD Med (Admin)

Higher degree: Current PhD Candidate (Commenced 2015)

Research topic: Teaching Junior Doctors how experts think: what impact does it have?

Dr Suat Chin Ng MBBS Biomed Sc.

Higher degree: Current Masters of Surgery Candidate (Commenced 2015)

Research topic: Is there any role for surveillance in elderly colorectal cancer patients post curative resection

Mr Douglas Stupart MBChB FCS (SA) FRACS

Higher degree: PhD (Completed 2015)

Research topic: Natural history and cancer prevention in Lynch Syndrome

Dr Patrick Mahar OAM MBA MBS DMedSci LLB MBBS

Higher degree: PhD (Completed 2014)

Research topic: Toxic epidermal necrolysis: Factors associated with mortality in Victorian burns-centre treated patients

Dr Joseph Kong MBBS

Higher degree: Masters of Surgery (Completed 2014)

Research topic: Validating Barwon Health Preoperative Risk Stratification Model for Mortality and Major Morbidity for Major Colorectal Surgery

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Professor David Watters

President of the Royal Australasian College of Surgeons (RACS)

Chairman RACS Professional Development and Standards Board (since 2012)

Chairman RACS International Committee (June 2007 – 2012, ongoing member)

Australian Endocrine Surgeons

Barwon Health Surgical Services Executive

Department of Health Services (DHS) Ministerial Advisory Committee on Access to Surgery

Cancer Australia Intercollegiate Advisory Group

Associate Professor Glenn Guest

Director of the RACS AusAid Timor Leste Surgical Program

BARWON HEALTH RESEARCH ROUNDUPS



ALLIED HEALTH

RESEARCH FOCUS

Podiatry

Tina Loxley has worked on the Foot Care Abilities Questionnaire and the process to validate this tool. It measures the ability of clients to manage their own foot health self-care. It has been designed as an outcome record to measure pre and post Meet Your Feet, which is a health education course for managing foot care underpinned by the active service model.

Speech Pathology –1

Developing communication resources in collaboration with acute health care teams and their consumers to strengthen the care of communication-impaired consumers.

Speech Pathology –2

Participation in NHMRC-funded National Randomised Controlled Trial into "Reducing the impact of aphasia in stroke patients and their caregivers a year post onset via a brief early intervention: a cluster randomised control trial of the Aphasia Action Success Knowledge (ASK) program".

Social Work

Paul Dodemaide commenced Masters of Advanced Social Work (Research) through The University of Melbourne in March 2015. Paul is currently exploring research around social media or online/internet use by people living with suicidal ideation. The idea is evolving and is in its early stages. The current focus is on therapeutic benefits or potential risks involved with accessing support through these types of platforms. It is anticipated that Paul may concentrate on young adults who are typically more engaged with social media and the internet and may be more likely to have sought help in these areas.

Acquired Brain Injury – ABI

The Family Sensitive Practice Survey in Acquired Brain Injury project aims to explore the understanding of multi-disciplinary team members with regard to family sensitive practice and the psycho-social impact of living with an Acquired Brain Injury. The project will be run in the neurology department and specifically aim to survey staff of Bellarine Centre 6 North who work with patients who present with neurological conditions. The project aims to develop a survey to be conducted via Survey Monkey, based on 12 questions which will

explore practitioner understanding of the principles of family sensitive practice. Key principles include family and system inclusive practice; respect; openness and honesty; information; collaboration; empowerment; understanding of subjective experience and the impact of blame and blaming conversations between family members, between staff and family and towards self.

The aim of the survey is to identify gaps in knowledge in order to develop an online education tool aimed at varied practitioners including nursing staff, allied health workers and doctors, in order to increase the knowledge of family-sensitive practice and thus ultimately improve the experience of consumers of Barwon Health.

Successful implementation of an education tool would result in improved sensitivity to the challenges faced by patients with ABI and their families, specifically improving communication with these families.

Chronic Kidney Disease (CKD)

Chronic Kidney Disease (CKD) imposes a substantial burden on individuals and communities. It can have a profound impact on the wellbeing and quality of life of the individual diagnosed with the disease and also on their families. CKD is associated with complex psychosocial problems in both patients and their primary carers. Individual quality of life can be compromised through the experience of anxiety and depression, a reduced sense of hope, limited coping strategies and reduced social supports. The complex nature of CKD can result in a reduction in quality of life and can affect dyadic adjustment and lead to the development of learned helplessness in both the patient and their carer.

Physiotherapy Research

- Evaluation of the impact of an inpatient rehabilitation Saturday service on patient outcomes and patient flow across the health care continuum (Hakkennes S, Lindner C and Reid J)
- The substantial personal burden experienced by younger people with hip or knee osteoarthritis (Schoch P et al)
- Early mobilisation and recovery in mechanically-ventilated patients in the ICU: a bi-national, multi-centre, prospective cohort study (Nalder N and Crawford T)
- Professional supervision in Physiotherapy
- Clinical Education project looking at the involvement of junior staff in the supervision of students

MAJOR ACHIEVEMENTS

Podiatry

- Work continues on further validation of the foot care abilities questionnaire
- Conference Presentations
- Australasian Podiatry Conference
- Ensuring a culturally sensitive, patient centred approach towards the management of high risk clients from a refugee background that may require podiatric intervention. Lauren Farnsworth
- Developing and validating the foot-care abilities questionnaire in a low risk population. Tina Loxley

Speech Pathology –1

- Successful application for ETRPF – Category A: Research Buy Out time for Health Professionals, 28 February to 31 October 2015
- Recruitment to project position, Chloe Horsted Belmont Community Rehabilitation Centre Speech Pathologist
- Literature review completed and liaison with relevant research staff both within CNAHR and REGI to inform research design
- Submission to Barwon Health ethics: Improving the experiences of communication between stroke patients and nurses on an acute stroke ward. BH ref:15/70. Reviewed at Barwon Health Research Ethics Committee 12 August, recommended for conditional approval 19 August 2015

Speech Pathology –2

- Expression of Interest forwarded to Barwon Health Speech Pathology from the University of Queensland
- Approval obtained from clinical coordinators and relevant rehabilitation medical staff for Barwon Health acute and rehabilitation Speech Pathology staff to participate in the research, October 2014
- Barwon Health Research Governance Office authorised the project to be conducted at Barwon Health, March 2015
- Following randomisation of interventions, training of Speech Pathology staff in intervention and data collection commenced June 2015
- Barwon Health commenced the ASK clinical trial, July 2015

Social Work

Paul Dodemaide is preparing a literature review and refining research idea

Acquired Brain Injury – ABI

This project has materialised via funding received from the Department of Health in order to fund a social worker to complete a Graduate Certificate in Family Therapy – ABI stream. The project to be run is a requirement of the certificate. Projects will be presented to a committee for assessment with the successful project obtaining \$3000 in funding to implement the project in 2016

Chronic Kidney Disease (CKD)

This study has shown that:

- Quality of life was compromised in the current patient participants. In particular the symptoms and problems of kidney disease, effects of kidney disease and physical component summary subscales of the KDQoL were the most compromised subscales
- In relation to carer perceptions of quality of life in patients, there was a lack of agreement between patient and carer perceptions of the patient's quality of life
- Hope was not significant and did not correspond to high levels of quality of life. The participants reporting high levels of hope, however, also reported above average quality of life scores
- Anxiety and depression were not significant factors, although higher levels of anxiety were reported by both patients and carers when compared to depression
- The participants in this study used more emotion-focused coping strategies and fewer problem-focused coping strategies and this assisted them to develop coping strategies for dealing with illness intrusiveness
- Social support was high in the participants with perceived support from family and significant others the most frequently reported sources of social support. This high degree of support was reflected in normal to mild anxiety and depression scores for both patients and carers
- Learned helplessness was not significant. Depression and anxiety were not significant in the minimal number of patients and carers who reported high levels of learned helplessness
- Dyadic adjustment was reported in fifty percent of the participating dyads. Overall dyadic adjustment resulted in lower incidence of depression and anxiety and higher reported levels of hope

Physiotherapy

Publications:

- Publication achieved for inpatient rehabilitation Saturday service in Disability and Rehabilitation Journal. Research project demonstrated improved patient outcomes and increase in patient flow through implementation of the service
- Publication achieved for osteoarthritis research project in Osteoarthritis and Cartilage Journal
- Publication of ICU study in Critical Care Journal

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Podiatry

Podiatry will be engaged in three research projects

- Finalising and writing up for publication the foot care abilities questionnaire
- Contribution to The University of Western Sydney – Delphi study in the role of Podiatry in in-patient rehabilitation (expert panel)
- In partnership with Charles Sturt University - Delphi study on the Podiatry General Treatment

Speech Pathology –1

- Focus groups to be run with patients and nursing staff on acute stroke unit
- Data analysis
- Development of communication aids
- Reapply for Education, Training and Research Profile Fund grant to enable completion of project, as this funding was only for part year
- Process to be streamlined so can be conducted across Barwon Health clinical units

Speech Pathology –2

- Identification of all patients admitted with aphasia to Barwon Health
- Screening of eligibility and commencement of intervention to commence across rehabilitation settings eg. Inpatient Rehabilitation Centre, North Geelong Community Rehabilitation Centre, Belmont Community Rehabilitation Centre, Home Based Rehabilitation service
- Data entry into online database

Social Work

Paul Dodemaide is currently writing a literature review for publication and preparing abstract for submission to 8th International Conference on Social Work in Health and Mental Health (ICSW 2016). Paul is anticipating confirmation in next six to 12 months. He may try to transfer to a Masters of Philosophy if there is scope to develop the idea to PhD level.

Acquired Brain Injury (ABI)

- Development of a survey via Survey Monkey
- Running of the survey
- Thematic analysis
- Presentation of research findings to the sponsors
- Outcome of assessment and grant funding if successful for implementation of the project.

Chronic Kidney Disease (CKD)

- Multiple publications providing a detailed and deeper understanding about the psychosocial experiences of patients across all stages of CKD and their nominated carer from an Australian perspective.
- Possible conference presentations

Physiotherapy

- Will achieve publication of physiotherapy research project: 'The therapist's perspective of the structure and content of a physiotherapy supervision program: a qualitative study.'
- Aiming for publication of physiotherapy research project: 'Identification of enablers, barriers and attitudes of physiotherapists and students to Grade One Physiotherapy staff engagement in the clinical supervision of undergraduate students.'

STAFF

Podiatry

Carol Mioduchowski

Tina Loxley

Speech Pathology -1

Nicky Robson

Manager Speech Pathology – Communicative Access, Consumer Engagement, Staff Development, Research

Jen Bennett

Senior Speech Pathologist (Rehabilitation) – Communicative Access

Rebecca Hart

Senior Speech Pathologist (Acute) – Communicative Access

Chloe Horsted

Speech Pathologist (Community Rehabilitation) – Communicative Access, Research, Consumer engagement

Speech Pathology -2

Robyn Hayles

Chief Operating Officer Community Health, Rehabilitation Palliative and Aged Care

Toni Hogg

Clinical Director of Rehabilitation – support for Speech Pathology rehabilitation staff to be involved

Jodie Cranham

Director of Community Health and Rehabilitation

Nicky Robson

Manager Speech Pathology – key contact Barwon Health

Chloe Horsted

Belmont Community Rehabilitation Centre Speech Pathologist – project role to assist key contact

Natalie Anderson

North West Area Manager

Therese Clark

Community Rehabilitation Co-ordinator

Kylie Casey

HBRS Co-ordinator - support the involvement of NGCRC and HBRS Speech Pathology staff

Suzanne Hunt

Belmont CRC Co-ordinator - support for involvement of BCRC Speech Pathologist

Heather Smith

Stroke Co-ordinator – support for acute and rehabilitation Speech Pathology staff to be involved

Social Worker

Paul Dodemaide

Grade 1 Social Worker. Masters of Advanced Social Work (Research) of platforms. Anticipated I may concentrate on young adult population who are typically more engaged with social media and the internet and may be more likely to have sought in these areas

Acquired Brain Injury – ABI

Jennifer Buchanan

Social Worker – Neurology. Master of Social Work, Graduate Diploma in Counselling, Bachelor of Social Science

Chronic Kidney Disease (CKD)

Trish Kinrade

Senior Social Worker, Barwon Health – UHG. Clinical speciality – Renal, Trauma and ICU

Physiotherapy Research

Peter Schoch

Grade 4 Physiotherapist at UHG. Interests: orthopaedics and service development. Contribution: associate investigator in osteoarthritis project

Sharon Hakkennes

Former Manager of Physiotherapy. Interests: Management, Neurological Physiotherapy and Research. Contribution: Principal Investigator in inpatient rehabilitation Saturday service project.

Christopher Lindner

Manager, Physiotherapy. Interests: Management, Amputee Rehab and Clinical Education. Contribution: Associate Investigator in inpatient rehabilitation Saturday service project

Naomi Nalder

Grade 2 Physiotherapist UHG. Interests: Cardiorespiratory Physiotherapy and Women's Health.

Contribution: Site Investigator for early mobilisation in ICU project

Tom Crawford

Grade 3 Clinical Lead Physiotherapist – Cardiorespiratory. Interests: Cardiorespiratory Physiotherapy – ICU. Contribution: Site Investigator for early mobilisation in ICU project

Mark Cheel

Grade 3 Physiotherapist UHG. Interests: Orthopaedics and Emergency Department. Contribution: Presenter at conference

Mark Napper

Grade 3 Physiotherapist UHG. Interests: Orthopaedics and Emergency Department. Contribution: Presenter at conference

Bill Reynolds

Grade 3 Physiotherapist – Orthopaedic Clinical Lead UHG. Interests: Orthopaedics and Advanced Practice role development

STUDENTS

Social Worker - Paul Dodemaide

Chronic Kidney Disease (CKD)

Trish Kinrade

Physiotherapy Research

Naomi Nalder

GRANTS

Speech Pathology - 1

Education, Training, Research , Profile Fund (ETRPF)	2015
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Speech Pathology -2

NHMRC	January 2014 to December 2018
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Acquired Brain Injury

Department of Health via Bouverie Centre	Funding covers the cost of the Graduate Certificate in Family Therapy only at this stage. If successful funding will include \$3000 towards implementation of the project	2015
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MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Podiatry

- University of Western Sydney : Dr Stefania Penkala
- Charles Sturt University: Dr Paul Tinley

CANCER SERVICES

RESEARCH FOCUS

The research endeavours of Cancer Services at Barwon Health aim to improve the health and wellbeing of western Victorian cancer patients through collaborative research across a broad range of disciplines. These include clinical research, health services research, population and data research and translational laboratory research.

MAJOR ACHIEVEMENTS

Clinical Research

- 12 oncology/haematology clinical trials were opened during the 2014/15 financial year
- 26 oncology/haematology clinical trials remain open to accrual and are still looking for patients
- 302 patients were recruited to oncology/haematology clinical trials during the 2014/15 financial year
- Successful completion of enrolment for two industry-sponsored clinical trials and one investigator-initiated trial during the 2014/15 financial year
- The Neonab study (Tailored neoadjuvant epirubicin and cyclophosphamide (EC) and nanoparticle albumin bound (NAB) paclitaxel for newly diagnosed breast cancer) recently reached its target recruitment of 40 patients. This investigator-initiated study has been designed, led and coordinated by Dr Mustafa Khasraw
- Dr Violet Mukaro was awarded the Barwon Health Clinical Research Grant valued at \$20,000 to initiate the investigator-initiated clinical trial titled *A Feasibility Study Of NAB-Paclitaxel In Combination With Carboplatin As First Line Treatment Of Gastrointestinal Neuroendocrine Carcinomas (NABNEC)*
- NHMRC recognised Barwon Health for its International Clinical Trials Day activities

Health Services Research

- Dr Shu Fen Wong submitted her masters thesis "Discrete choice experiment examining their preferences of people with cancer"
- Professor Trish Livingston, Professor David Ashley et al. NHMRC Partnership grant titled "Efficacy and Costeffectiveness of a smartphone App to reduce distress and unmet needs in people with cancer (ACE): a randomized controlled trial."

Population and Data Research

- Cancer Services has received a philanthropic grant for research from the Barwon Health Foundation in excess of \$600,000. In 2014 we have begun to "Digitalize the Cancer Service" meaning all patient data will be available for clinical and research purposes
- A collaboration with the PRADA group at Deakin University has focussed on using "big data" to predict cancer outcomes and develop clinical platforms
- The Evaluation of Cancer Outcomes Barwon South West Registry is a clinical-quality registry initiative through Barwon South West Integrated Regional Cancer Services (BSWRICS). The registry collects and reports detailed information on treatments and subsequent outcomes for all newly diagnosed cancer patients in the region
- "CANCER 2015" is a prospective, population-based Cancer Cohort that examines the feasibility of genomics-guided precision medicine in the clinic
- Barwon Health Cancer Services continues to contribute to the Victorian Lung Cancer Registry

Translational Laboratory Research

Work on four brain tumour projects continue in the laboratory:

- Understanding the epigenetics of malignant glioma
- The Epigenetics of Atypical Teratoid Rhabdoid Tumors
- Integrating genomic and epigenomic predictive biomarkers in aza treated MDS Victorian Epigenetics Group (VEG)
- Assessment of novel IDH mutant inhibitors in treatment of glioma

Conference Presentations

- Victorian Integrated Cancer Services Conference Melbourne, VIC May 11-12, 2015. GA Pitson, LM Matheson, V Mukaro, B Garrard, P Banks, A Al-anin, D Ashley, MJ Henry. *The Evaluation of Cancer Outcomes Barwon South Western Registry- insights into regional patterns of care.* (Oral)
- Victorian Integrated Cancer Services Conference Melbourne, VIC May 11-12, 2015. David Ashley. *Using big data and machine-learning predictions for cancer quality and care.* (Oral)
- Victorian Integrated Cancer Services Conference Melbourne, VIC May 11-12, 2015. Mukaro VRS, Matheson LM, Henry MJ, Garrard BE, Pitson GA; Ashley DM. *The Evaluation of Cancer Outcomes Barwon South Western Registry- from concept to creation.* (Poster)
- Victorian Integrated Cancer Services Conference Melbourne, VIC May 11-12, 2015. Matheson LM, Garrard BE, Mukaro VRS, Ashley DM, Pitson GA and Henry MJ. *Presentation to the emergency department prior to cancer diagnosis: a regional perspective.* (Poster)
- Western Alliance 2nd Annual Symposium Ballarat, VIC August 21, 2015. Mukaro VRS, Matheson LM, Henry MJ, Garrard BE, Pitson GA; Ashley DM. *The Evaluation of Cancer Outcomes Barwon South Western Registry- from concept to creation.* (Oral)
- Western Alliance 2nd Annual Symposium Ballarat, VIC August 21, 2015. Matheson LM, Garrard BE, Mukaro VRS, Ashley DM, Pitson GA and Henry MJ. *Presentation to the emergency department prior to cancer diagnosis: a regional perspective.* (Poster)

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Clinical Research

In the next 12 months the Haematology Oncology Clinical Trials Team would like to further grow and develop its research portfolio and potentially expand into the area of Phase I studies and further develop the investigator-initiated portfolio

Health Services Research

- The NHMRC partnership grant will continue to enrol patients this year
- Dr Shu Fen Wong will complete her Masters requirements
- The CRE NHMRC application will be submitted

Population and Data Research

- It is hoped that all patient data will be in a digital format by the end of 2016. This will allow a large amount of analysis and reporting on outcomes both for quality and research
- The ECO registry will be functioning as a true quality system, monitoring and reporting region-wide clinical performance

Translational Laboratory Research

- The first reports of the NHMRC Glioma study will be submitted for publication
- We anticipate submitting two NHMRC project grants this year building on our glioma and ATRT work
- A new project begins using the specimens from the Neo Nab study examining the genomics of high risk breast cancer and resistance to therapy. This will form the basis of a Masters degree for Dr Caitlin Murphy starting in February 2016

STAFF

Clinical Research

Professor David Ashley MBBS FRACP PhD

Director of Cancer Services

Dr Graham Pitson MBBS FRACR

Director of Radiation Oncology

Associate Professor Philip Campbell MBChB MRCP MRCPPath
FRACP FRCPA

Director of Haematology

Dr Adam Broad MBBS FRACP

Medical Oncology

Dr Adam Friebe MBBS

Haematology

Dr Andrew Hui MBBS M Med (ClinEpi)

Radiation Oncology

Dr David Campbell MBBS FRACP

Medical Oncology

Dr David Kipp MBBS BMedSci FRACP, FRCPA

Haematology

Dr Hannah Rose MBBS FRACP

Haematology

Dr Helen Fairweather FRACP FRCPA

Haematology

Dr Inger Olesen MBBS FRACP

Medical Oncology

Dr Karen White MBBS FRACP

Medical Oncology and Haematology

Dr Madhu Singh MBBS FRACP

Medical Oncology

Dr Maitham Mathlum MBChB FRANZCR

Radiation Oncology

Dr Michael Francis MBBS FRACR

Radiation Oncology

Dr Mustafa Khasraw MD MBChB FRACP MRCP

Medical Oncology

Dr Rod Lynch BMedSc MBBS FRACR MRACMA

Radiation Oncology

Dr Shu Fen Wong MBBS, FRACP

Medical Oncology

Dr Sumita Ratnasingam MBBS

Haematology

Warrnambool

Dr Ian Collins MB BCH BAO

Medical Oncology

Dr John Hounsell MBBS

Haematology

Dr Theresa Hayes MBBS (Hons) BMedSc (Hons) FRACP

Medical Oncology

Dr Oliver Klein MBBS (Hons) FRACP

Haematology

Manager Research Strategy and Education

Anne Woollett BEdRN

Clinical Trials Manager

Lea-Anne Harrison BSc (Hons), PhD

Geelong

Clinical Trial Coordinators

Linda Burnett RN

Elesha Parigi BSc (Hons)

Michelle Edwards RN

Robert Tobler B AppSc

Sharon Jones BSc (Hons) MSc

Sonja Gauci BSc

Tina Smith BSc

Data Manager

Amy Dang BSc (Hons), Postgraduate Diploma in Computer Science

Project Officer

Violet Mukaro B LabMed (Hons), PhD

Clinical Trials Assistant

Andrea Dozzi Grad Cert Clinical Trials Management

Warrnambool

Clinical Trial Coordinators

Marcelle Hennig RN

Sandra Robinson RN

Translational laboratory research

Andrea Muscat BSc (Hons)

Melissa Ferguson BSc (Hons)

Jason Hodge BSc (Hons), PhD

Rasika Samarasinghe BSc (Hons), PhD

STUDENTS

Masters Student

Shu Fen Wong

GRANTS

1.	NHMRC Project Grant (APP1027315)	Epigenetic predictors of outcome in Malignant Glioma	David. M Ashley- CIA, Kate Drummond, Mark Rosenthal, Elizabeth Algar, Nick Wong, Katherine Field	2013-2015 - \$672,000
2.	Victorian Cancer Agency	Lung Cancer Registry		2012-2015 - \$35,000pa
3.	Victorian Cancer Agency	Personality disorders in the community	Quirk S.	2013-2015 - \$31,886.83
4.	Victorian Cancer Agency	A collaboration for personalised epigenetic cancer therapy through pre-clinical evaluation, novel biomarker development and early phase clinical trials of new Drugs	Victorian Epigenetics Group (VEG): Miles Prince, Andrew Spencer, David M. Ashley	2014-2017 - \$2,996, 569
5.	Victorian Cancer Agency	Cancer 2015	Joe Sambrook, David Thomas, Stephen Fox, John McNeil, Paula Lorgelly, David M. Ashley, Lara Lipton, Melissa Southey, Paul Waring, Neil Watkins, Thomas John, Gary Richardson	2014-2017 - \$2,300,000

Cancer Services (Continued)

6.	NHMRC Partnership Grant	Efficacy and Costeffectiveness of a smartphone App to reduce distress and unmet needs in people with cancer (ACE): a randomized controlled trial	Trish Livingston, David M Ashley et al	2014-2017 - \$570,000
7.	Cancer Research Fellowship- Deakin University		Dr Mustafa Khasraw	2012-2014 - \$200,000
8.	Cure Brain Cancer Foundation	The VERTU Clinical Trial in Brain Tumours	Dr Mustafa Khasraw	2015-2017 - \$500,000
9.	Specialised Therapeutics Australia	NABNEC Clinical Trial – Neuroendocrine Cancer	Dr Mustafa Khasraw	2015-2017 - \$50,000
10.	UNICORN Foundation	NABNEC Clinical Trial – Neuroendocrine Cancer	Dr Mustafa Khasraw	2015 -2017 - \$31,000
11.	Specialised Therapeutics Australia	NEONAB breast cancer clinical trial	Dr Mustafa Khasraw	2012-2014 - \$150,000
12.	Victorian Department of Health Survivorship Project – Phase 2	To develop a model of small group education for survivors of cancer and to focus on the transition of survivors to their GP at the time of transition from active treatment	Donna Lever	2015

Clinical research

Investigator Initiated Income	\$61,000
Collaborative Group Trial Income	\$78,932.50
Sponsored Trial Income	\$858,126.92
Cancer Council Victoria Income	\$44,000
ACTA money to offset AW wages	\$32,778.60
Total Income for 2014/2015	\$1,074,838.02

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Professor David M. Ashley

- Executive Director Western Alliance
- NHMRC-Academy Member
- Victorian Cancer Agency- Council Member, Chair Clinical Trials Working Group
- Cancer Trials Australia- Board Member
- Cancer Council- Standing Research Sub-committee

Anne Woollett

- Steering committee member on the inaugural Site solutions Asia Pacific Summit
- Chair, Cancer Council Victoria, Clinical professionals Network

Dr Lea Anne Harrison

- Cancer Council Victoria, Clinical Professionals Network
- Cancer Council Victoria, Cancer Trials Management Scheme (CTMS) Review Steering Committee
- Clinical Trial Advisory Committee (CTAC)
- NHMRC Good Process Practice Pilot Study Committee
- Cancer Services Information Technology Reference Group (ITRG) Committee
- Cancer Services Level 2, Operation Group (L2OG) Committee
- All Cancer Trials Australia Tumour Group Teleconferences

Dr Mustafa Khasraw

- Best Practice in Breast Cancer Project – Cancer Australia (2015)
- Member of the Barwon Health Research Review Committee (2012-2015)
- Member of the Breast Cancer Network Australia's Strategic Advisory Group
- Member of the therapeutic committee of ANZ Breast Cancer Trials Group (ANZBCTG)
- Member of the Scientific Advisory Committee of the Cure Brain Cancer Foundation
- Medical Co-director of Rotary Bowel Scan – Geelong District

Associate Professor Philip Campbell

- Member, Centre for Clinical Research in Cancer (CCRV), Victorian Cooperative Oncology Group (VCOG)
- Australasian Leukaemia and Lymphoma Group

- Barwon Health is a member of Cancer Trials Australia (CTA) enabling the Haematology Oncology Trials Team to use the services of CTA to streamline ethics and governance applications, financing and resource utilisation
- The Haematology Oncology Trials Team has a close working relationship with all cancer care providers in the region, and also has a trials unit based in Warrnambool to improve patient access to clinical trials within the Greater Green triangle of South West Victoria

Members of the Haematology Oncology Trials Team are associated with a number of professional bodies including:

- ACRP (Association of Clinical Research Professionals)
- AGITG (Australasian Gastro-Intestinal Trials Group)
- ALLG (Australian Lymphoma and Leukaemia Group)
- ALTG (Australasian Lung Cancer Trials Group)
- ANF (Australian Nursing Federation)
- ANZBCTG (ANZ Breast Cancer Trials Group)
- ANZGOG (ANZ Gynaecological Oncology Group)
- ANZMTG
- ANZUP (ANZ Urogenital and Prostate Cancer) Trials Group
- ARCS (Association of Regulatory and Clinical Scientists)
- AYA (Adolescent and Young Adult) program
- Cancer Council Victoria's Clinical Network - Clinical Research Professionals Committee
- CNSA (Clinical Nursing Society of Australia)
- COGNO
- COSA (Clinical Oncology Society of Australia)
- MOGA (Medical Oncology Group of Australia)
- Nurses Board of Victoria
- PC4 (Primary Care 4)
- PoCOG (Psycho-Oncology Co-operative Research Group)
- Society for Clinical Research Sites
- TROG (Trans-Tasman Radiation Oncology Group)

Key Collaborations include investigators at:

- Dana Faber Cancer Institute
- Deakin University
- Harvard University
- Melbourne University



EMERGENCY DEPARTMENT

RESEARCH FOCUS

Emergency Department (ED) staff have begun a rigorous round of research over the past 12 months, with their focus on patient care and workforce planning. Of particular note is a study on the impact of alcohol, drugs and mental health issues on the ED. The research will look at how these issues affect staff and patients.

Another research project gaining momentum is the use of Telemedicine. Senior staff are investigating how best to use Telemedicine to supervise junior doctors at a regional hospital, with Colac chosen for the pilot. It is expected the project will be widened to cover the entire Western District over the next year.

A pilot program using ultrasound in the ED to diagnose critically ill patients is due for submission this year and it is anticipated the findings will lead to changes in standard operating procedures across the nation, extending the use of ultrasound in the ED as standard practice.

An Australia-wide study of the number of foreign-trained doctors working in EDs has been published in the UK and is likely to be used nationally and abroad in workforce planning.

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT TWELVE MONTHS

We have developed a Research Special interest Group to further support, develop interest, develop strategic scope, build capability, explore grant/funding opportunities and align the different interests in the ED in the area of research. We have held an initial meeting to develop the idea and to share current ED research projects and concepts. We look forward to further regular meetings to occur.



ENDOCRINOLOGY

RESEARCH FOCUS

The Department of Endocrinology and Diabetes research activity is divided between the Geelong Osteoporosis Study (GOS), investigator-initiated research and the Clinical Trials Unit.

GEELONG OSTEOPOROSIS STUDY

Designed by Associate Professor Kotowicz to examine the epidemiology of osteoporosis, the GOS has developed collaborations examining the health impact of obesity, diabetes, gastrointestinal disease and mental health. This study laid the foundations for the epidemiological component of Deakin University's IMPACT SRC. As part of Dr Neil Orford's PhD, a link between critical illness and an increased risk of fragility fractures has been described and a prospective study to further evaluate this association has been submitted for publication. In collaboration with:

- Professor Michael Berk's group, we are examining the relationship between mental illness and bone health and other comorbidities
- Professor Didier Hans examining Trabecular Bone Scores (TBS), generated from standard DXA spine examinations
- Dr Peter Burks examining age-related changes in material properties of bone in men using the Osteoprobe

Associate Professor Kotowicz is also a Chief Investigator on the ACIDI Study, examining ageing, chronic disease and injury in the Western Districts of Victoria, funded by the Western Alliance.

INVESTIGATOR INITIATED STUDIES

- Professor Stuart Ralston: examining early intervention with zoledronic acid in Paget's disease of bone
- Dr Neil Orford: Impact of changes in glucose control targets in the ICU and ICU outcomes
- Barwon Health Personalised Health Care project, that employs electronic monitoring and support for patients with diabetes to reduce their health service utilisation
- Professor David Ashley: Effect of dysglycaemia on outcomes in cancer

- Dr Shaun McGee: Characterisation of heart structure and function in non-hypertensive obese type 2 diabetes patients.
- Associate Professor Bodil Rasmussen: To gain Diabetes Educators' perceptions of the use of an interactive, online program to deliver an evidence-based technique of guided self-reflection to adults with Type 1 Diabetes between 19-39 years of age

CLINICAL TRIALS UNIT (CTU) - Endocrinology

Currently oversees 12 clinical trials and is the lead Australian Centre for three bone-related studies and diabetes study. The Clinical Trials Unit has joined the Australian Type 1 Diabetes Clinical Research Network, funded by the Juvenile Diabetes Research Foundation, to participate in investigator-initiated studies examining the pathogenesis, management and prevention of complications in Type 1 Diabetes Mellitus.

MAJOR ACHIEVEMENTS

INVITED FACULTY

Professor David Kendler

Director of the Osteoporosis Centre of British Columbia, visited Barwon Health and gave a presentation on "Switching therapies for optimal osteoporosis management".

AUDIT

Australia National Diabetes Audit

Australian Quality Clinical Audit (ANDA-AQCA) completed. Collected data on 102 clinic patients attending DRC for Endocrinologist review. There is a plan to analyse the site results and utilise for service review and development.

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Ms Heather Hart (NUM)

Invited to speak at the Australian Diabetes Society and Australian Diabetes Educators Association Annual Scientific Meeting in August 2015, for the National Association of Diabetes Centres (NADC) Symposium on "How has Australian National Diabetes Audit data led to Quality Improvements"

Associate Professor Kotowicz

Invited Speaker ANZBMS Annual Scientific Meeting, Tasmania, November 2015: "Current Concepts in Osteoporosis"

Associate Professor Kotowicz

Chair Clinical Grand Rounds ABNZBMS Annual Scientific Meeting, Tasmania, November 2015

STAFF**Associate Professor Mark Kotowicz**

Associate Professor in Medicine, Director, Department of Endocrinology and Diabetes, Barwon Health

Dr Adam Roberts

VMO, Principal Investigator in Clinical Trials Unit.

Dr Myra Yeo – VMO

Co-Investigator (Features of the metabolic syndrome and risk of subsequent gestational diabetes)

Dr Natalie Harrison - VMO**Dr Kimberly Cukier – VMO**

Co-Investigator (Characterisation of heart structure and function in non-hypertensive obese type 2 diabetes patients)

Dr Michael McNamara - VMO**Dr Samantha Worboys - VMO****Dr Chris Jung - VMO****Dr Shannon McCarthy**

Endocrine Fellow – Investigator (Effect of dysglycaemia on outcomes in cancer)

Ms Heather Hart

Nurse Unit Manager, Department of Endocrinology

Kate McMaster

Credentialed Diabetes Educator

Pauline Clancy

Credentialed Diabetes Educator

Trish Streitberger

Credentialed Diabetes Educator

Donna Killeen

Personal Assistant (PA)

Alana Sarah

Clinical Trial Manager

Bree Sarah

Senior Clinical Trial Coordinator

Susan Lamb

Clinical Trial Coordinator

Caroline Gay

Clinical Trial Coordinator

Kate Ellis

Clinical Trial Coordinator

STUDENTS*PhD***Haslinda Gould**

University of Melbourne: Antecedents of aged care utilisation in a sample of older Australians: prospective data linkage using government administrative databases.

Yu Zhang

University of Melbourne: Cost of fractures

Neil Orford

Monash University: Skeletal morbidity in survivors of intensive care

Leilia Lelis Ferreira de Abreu

Deakin University 2014

Muhammad Amber Sajjad

Deakin University 2015

GRANTS

1.	ETRPF Grant	Features of the metabolic syndrome and risk of subsequent gestational diabetes	CI: Kotowicz MA	2015 - \$28,325
2.	Western Alliance	Chronic disease, injury and ageing in Western Victoria: opportunities to improve health delivery	CI: Pasco JA	2015 - \$100,000
3.	HCF Research Fund	Evaluation of fracture risk calculators in clinical practice	CI: Clifton-Bligh R	2014-2015 - \$124,268

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

EXTERNAL PROFESSIONAL APPOINTMENTS (Associate Professor Mark Kotowicz)

- Chair, Therapeutic Committee, ANZBMS 2014
- Constitutional review Committee of ANZBMS
- Epworth Geelong Council of Clinicians
- Royal Australasian College of Physicians Evolve Forum – Evaluating Evidence Enhancing Effectiveness: A peer review initiative

EDITORIAL BOARDS (Associate Professor Mark Kotowicz)

- Clinical Drug Safety

REVIEWER (Associate Professor Mark Kotowicz)

- External Reviewer for NHMRC

PEER REVIEW JOURNALS (Associate Professor Mark Kotowicz)

- Journal of Bone and Mineral Research
- Bone
- Osteoporosis International
- Clinical Endocrinology
- Biomedical Central
- British Medical Journal Open
- Medical Journal of Australia
- Internal Medicine Journal
- Clinical Drug Safety
- Nutrition and Metabolism
- Future Medicine

- Journal of Rheumatology

KEY COLLABORATIONS

- University of Edinburgh – Professor Stuart Ralston
- Center of Bone Diseases Lausanne University Hospital, Lausanne, Switzerland – Professor Didier Hans
- Active Life Sciences Inc, Santa Barbara, California, USA – Dr Peter Burks
- Autonomous University of Barcelona, Department of Internal Medicine – Professor Adolfo Diez-Perez
- The University of Sydney – Associate Professor Rory Clifton-Bligh
- Australian Type 1 Diabetes Clinical Research Network, Juvenile Diabetes Research Foundation
- Deakin University – Professor Julie Pasco, Professor Michael Burk, Professor David Ashley, Dr Sean McGee, Associate Professor Bodil Rasmussen
- Diabetes Australia
- Monash University
- Flinders University



INFECTIOUS DISEASES

RESEARCH FOCUS

We are a research-intense department with four PhD programs and honours students. We perform laboratory based research, public trials, public health work and epidemiology study and have a diverse range of research covering a broad spectrum of infectious diseases that threaten human health. Current areas of research include health care associated infections, emerging infectious diseases, refugee health, antimicrobial resistance and population health.

Other research areas are:

- *Mycobacteria Ulcerans*
- Device infections/Biofilms
- *Clostridium Difficile*
- Hepatitis C
- Infective Endocarditis
- Cost effectiveness
- Antimicrobial resistance
- Clinical trials

The past year has been a very busy and challenging year for our team with development and growth of many service areas and some new faces in our team. The world experienced the worst Ebola outbreak in recorded history. Our national plan and the tremendous local efforts from our team and the Emergency Department prepared us well for the management and isolation of possible cases of Ebola or other exotic respiratory viral infections presenting to our hospital.

MAJOR ACHIEVEMENTS

- Eugene Athan Australasian Society for Infectious Diseases presentation preventing central line infections - major article in the Medical Journal of Australia
- Zoster vaccine clinical trial published in the New England Journal of Medicine
- Keynote speaker at International Society of Cardiovascular Infectious Diseases 2015, Clinical Infectious Diseases Society Conference 2014, Invited speaker Australasian Society for Infectious Diseases 2015
- J Pollard presented at Hospital in the Home (HITH) society meeting
- Conference Presentations

- External Funding
- Education, Training and Research Profile Fund Award - Daniel O'Brien
- Western Alliance Eugene Athan
- NHMRC Fellowship Amanda Wade
- Sabbatical leave - Deb Friedman/Aaron Walton in Tel Aviv.
- Sarah Huffam Masters in BioEthics
- 40 publications in Peer Reviewed Journals

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

- Commencement of funded research projects
- Publications in Peer reviewed Journals > 40 each year
- Opening of Multi-disciplinary GCEID facility in 2015

STAFF

Associate Professor Eugene Athan

Director, Department Infectious Diseases - Health Care Infections, Endocarditis.

Dr Daniel O'Brien

Deputy Director - Mycobacteria Ulcerans Program, University of Melbourne.

Associate Professor Amanda Wade

Head Hepatitis Program - Hepatitis CPI Prime Study Burnet Institute.

Dr Deborah Freidman

Gram Negative Resistance in Aged Care, Deakin University.

Dr James Pollard

Lead Hospital in the Home - Cost Effectiveness of HITH, Deakin University.

Dr Sarah Huffam

Antimicrobial Treatment at End of Life, BioEthics.

Dr Aaron Walton

Microbiologist - Antimicrobial Stewardship, St John of God Microbiology.

Dr Raquel Cowan

Blood Stream Infections in Haematology/Oncology, Deakin University.

Dr Babak Rad

Infectious Diseases Research Fellow - Corticosteroids in Tuberculosis, PJI Cohort Study

Penny Radlj

CNC IPS - Hand Hygiene Evaluation, Deakin University.

Dr Ohide Otome

Infectious Diseases Research Fellow - Cost of Infective Endocarditis.

Dr Eleanor MacMorran

Registrar - Staph Infections in Central Australia.

Alicia Neels

Senior Pharmacist - Antimicrobial Stewardship.

Rochelle Hamilton

CNC Sexual Health - Sexual Health Behavioural Study, Deakin University.

STUDENTS**Dr Amanda Wade**

PhD Hepatitis C

Christine Roder

PhD Clostridium Difficile

Darcie Cooper

PhD Biofilm Infections

Michael Avumegah

PhD Mycobacteria Ulcerans

Alex Wright

Honours Student Infective Endocarditis in IDUs

Dr Babak Rad

Infectious Diseases Research Fellow

Dr Ohide Otome

Infectious Diseases Research Fellow

GRANTS

1.	Barwon Health - Education, Training and Research Profile Fund (ETRPF) Grant	Mycobacterium Ulcerans	Daniel O'Brien	2015-2016 - \$30,000
2.	NHMRC Fellowship	Hepatitis C	Amanda Wade	2015-2017
3.	Western Alliance	Antimicrobial Stewardship in Primary Care in GP	Eugene Athan	2016-2017

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

- National affiliates /ommittees: AQSHC HAI Advisory Group, ASHM, ASID HICSIG, HITH Society
- International Affiliates: IDSA, HIVMA, MSF, Cotton on Foundation
- Key Collaborations with named Organisation: CSIRO, Deakin University, University of Melbourne, Burnet Institute, Monash University, Western Victoria Primary Health Network, Victorian Department of Health

NEPHROLOGY

RESEARCH FOCUS

The main research interests in the Department of Renal Medicine over the last year have been:

- Home Nocturnal Haemodialysis/extended hour and frequency Haemodialysis with aim of finding optimal method of dialysis for patient and community
- "Green" Dialysis – focussing on ecologically responsible practices within dialysis which has traditionally been a high consumer of energy and resources
- Ultrafiltration rates in Haemodialysis with aim of providing safer dialysis with fewer long-term complications
- Participation in Clinical trials through the Australian Kidney Trials Network (AKTN) which has included recruitment of patients for multi-centre trial such as HONEYPOT trial (looking at efficacy of medicinal honey in preventing Tenckhoff catheter site infections) and PEXIVAS (looking at role of plasma exchange in vasculitis)
- Patient Education using electronic media (Professor John Agar)
- New Technologies in Haemodialysis (Professor John Agar)
- Factors contributing to acute kidney injury in Peri-Operative Orthopaedic Patients

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

- Continuation of above themes – proposed presentations listed above
- Residual renal function study – Collaboration with Royal Melbourne Hospital and Western Health. Recruitment of incident hemodialysis/ nocturnal hemodialysis patients and comparing their residual renal function over 1-2 years. (lead by Dr Alwie Tjipto)
- Contribution to the Registry of Kidney Diseases (cquality study conducted by Victorian renal units to collect data from patients with chronic kidney disease including a spectrum of causative kidney diseases, with the aim of earlier identification and improved protection of renal function (Christine Somerville)

STAFF

Professor John Agar

Honorary nephrologist, Barwon Health. He has a world-wide reputation as an innovator in the fields of nocturnal and extended hour dialysis and green nephrology.

Mr Anthony Perkins

Research Nurse, with main areas of interest being Green Dialysis and co-ordinating our participation in the AKTN trials

Dr Emily See

Advanced Trainee in Nephrology Barwon Health 2015

Dr Tracey Ying

Advanced Trainee in Nephrology Barwon Health 2014

Dr Samantha Chan

Was a renal HMO2 at Barwon Health in 2014

The entire renal team, including dialysis nurses and senior and junior medical staff contribute to this research

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Professor John Agar reports the following Affiliations:

- MAB Quanta (Quanta Fluid Solutions, Warwickshire, UK)
- Investigator: Song-HD (George Institute: Sydney, Aust)
- Investigator: ANZDATA Dialysis Modalities Project (ANZDATA, Adelaide, Aust)
- Monthly Blog: Home Dialysis Central (Medical Education Institute, Wisconsin, USA)
- MAB: Renal Solutions Inc: Sorbent Dialysis (RSI, Pittsburgh, USA)
- Various other national and international collaborations

OCCUPATIONAL THERAPY

RESEARCH FOCUS

The Occupational Therapy (OT) Service at Barwon Health has over the past 12 months continued to work on a number of research projects into the use of assistive technology in rehabilitation (SAEBOFlex and TAPit®). The teams received a NAB Community Grant to establish an Assistive Technology hub at the McKellar Centre. The OT Service continued its partnership with Deakin University's and Charles Sturt University's Occupational Therapy programs, providing innovative models for student fieldwork and has published and presented at local and national conferences on these topics.

Smaller research projects have been commenced in collaboration with Deakin University Honours students in relation to early intervention in hand therapy, and sensory modulation in mental health.

A number of service redesign projects focused on the work-readiness of different parts of the OT workforce, graded training programs for OT AHA (Student) to experienced Grade 1, Effectiveness of Grade 3 Allied Health Assistant completing site visits, Effectiveness of Occupational Therapy Volunteers and these have been finalised and presented at the National Occupational Therapy Conference in July 2015.

Staff have contributed to a number of multidisciplinary research projects, namely SENSE and Knowledge Brokerage which are continuing into 2015-16.

MAJOR ACHIEVEMENTS

Research Outcomes

- TAPit®: Five mixed methods case studies have been completed into the use of this device with people who have experienced neurological trauma. This study has been submitted for publication
- Saebo: Patient and therapist experiences of the SaeboFlex: A pilot study, has been completed involving 12 clients and with upper limb hemiplegia. The paper has been completed and submitted to various journals for publication
- Knowledge Brokerage: A qualitative study was completed in 2013 and has now been published. This study formed the basis of a grant application at Deakin University, which was successful and is now being used to develop the model of knowledge brokerage. Barwon Health was one of three trial sites
- Fieldwork: A mixed methods study was completed in 2013 with some ongoing work and data collected completed in 2014. This study has been submitted for publication
- Fieldwork: A further research project evaluating student and clinician satisfaction of new models of fieldwork in relation to the Buddy Model and the utilisation of reflective practise sessions has commenced data collection with Deakin University and Charles Sturt University students
- SENSE (Study of the Effectiveness of Neurorehabilitation on Sensation) is an evidence-based therapy approach targeting the loss of sensation in the hand following a stroke. Researchers from the Florey Institute of Neuroscience and Mental Health and La Trobe University, Melbourne are conducting this study. Barwon Health is one of 10 clinical trial sites. Approval for ethics has been submitted. To commence data collection in 2016

External Funding

- NAB Community Grant \$50,000 – Assistive Technology Program
- TAC Small Grant \$20,000 – TAPit®

Deakin University

Inkind 0.1 EFT for research assistance with ethic proposals, writing of publications, conference presentations

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

Over the next 12 months the Occupational Therapy Service will continue to build on a research framework where service redesign projects progress to formalise research projects. We will resource our projects through the utilisation of small working parties and Honour student projects. Our aim is to focus on research which benefits Occupational Therapy as a whole across Barwon Health, specifically in the areas of cognition, pressure care and falls. We want to build on our culture and capacity for research by more senior staff mentoring less experienced staff and by building our partnerships with universities.

STAFF

Larissa Andriske

Clinical Lead Neurology for Occupational Therapy for the Acute and Subacute Programs at Barwon Health. She has a keen interest in neurology, assistive technology and the use of casting for spasticity management of the upper limb. She introduced the SABEO flex to Barwon Health to facilitate upper limb rehabilitation in adults and children and has closely collaborated with the School of Engineering at Deakin University in relation to assistive technology. She is the lead in the NAB Community Grant of \$50,000 for an assistive technology hub at Mc Kellar Centre.

Debbie Verikios

Clinical Lead Occupational Therapist in Trauma Rehabilitation Therapy for the Acute and Subacute Programs at Barwon Health, and Barwon Health's Occupational Therapy Driving Assessor. Her interest is in adult rehabilitation particularly assistive technology, return to work, driving and study in Spinal Cord Injury and Traumatic Brain Injury. Debbie has partnered with The Brinary for the TAP it[®] study and the Barwon Health Foundation to secure funding for the expansion of the Occupational Therapy Upper Limb Program.

Kate Ingwersen

Shares the Senior Clinician Occupational Therapy role within community-based services at Barwon Health. She has a keen interest in interprofessional approaches to community healthcare delivery, the impact of the social determinants on health and undergraduate student education. Kate has been involved in the student education research projects and presentations.

Nicole Shaw

Shares the Occupational Therapy Student Coordinator position at Barwon Health. She has a keen interest in adult teaching and learning principles and student clinical practice education. She is coordinating clinical placement research that involves a collaborative partnership with Barwon Health, Deakin University and Charles Sturt University.

Nikki Lyons

Shares the Occupational Therapy Student Coordinator position at Barwon Health. She has a keen interest in adult teaching and learning principles and student clinical practice education.. She is coordinating clinical placement research that involves a collaborative partnership with Barwon Health, Deakin University and Charles Sturt University.

Danielle Hitch

Lecturer in Occupational Therapy at Deakin University, and works in collaboration with this team. She has a particular interest in promoting participation, social justice and outcome measurement in clinical practice. Danielle is recognised as a 'knowledge broker' within the occupational therapy profession, and fulfils this role with Barwon Health.

Sue Rowan

Manager, Occupational Therapy at Barwon Health. Her interest is workforce development and service improvement. She has fostered a research culture in Occupational Therapy at Barwon Health and endeavours to build research capacity through partnerships with universities and other service providers. She has led a number of multi-disciplinary research projects.

Anna Treloar-Tanner

Occupational Therapist at Swanston Centre Mental Health Inpatient Unit. She has a keen interest in the use of Sensory Modulation in mental health. Anna is involved in training multidisciplinary teams and is researching the effect of capacity building for the inpatient nursing group in these strategies.

STUDENTS

Salena Hibbard

Is completing a Masters in Health Administration at La Trobe University.

Claire Ferris

Is completing her Masters in Clinical Rehabilitation, University of South Australia.

Lauren Pattinson

Is completing a Masters in Advanced Occupational Therapy through La Trobe University.

GRANTS

1.	NAB Community Grant	Assistive Technology Program	CI: Larissa Andriske, Alison Heywood, Sara Coulter	2014-2016- 2 year grant, \$50,000
2.	TAC Small Grant	The physical, Psychosocial and functional impact of the TapIt®: A Case Study	CI: Debbie Verikios, Larissa Andriske, Danni Hitch	2013-2014, \$20,500

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

- Professional Affiliations
- School of Engineering, Deakin University
- Presentation at NICTA forum
- Writing of proposals and grant applications
- Submission of paper – Facilitating Communication and computer use with EEG devices for non-vocal Quadraplegics

ORAL HEALTH

RESEARCH FOCUS

The major research focus of the Oral Health Services Research Team is investigating continuous improvement techniques for oral health treatment procedures. The dental care profile of children and adolescents receiving dental treatment under general anaesthetic (GA) in the Barwon geographical region of Victoria, Australia was investigated. Having an understanding of the dental care profile enabled the development and implementation of preventative interventions that aim to reduce the rate of GA's among children and adolescents in the Barwon Region and reduce the economic burden on society associated with dental treatment under GA. As a consequence of this study, the current major research program is investigating strategies for early detection, intervention and remineralisation of children's carious lesions. The aim of the Wide Smiles (WS) program is to measure the effect of topical fluoride application to tooth surfaces with an International Caries and Detection System (ICDAS-II) rating of 1 or greater in children aged 3-6 years throughout the Geelong and Colac-Otway region. In addition to the WS program, the Hall Technique (HT) has been trialled at Barwon Health (BH). The HT is a new technique for treatment of carious primary molars in children aged 3-7 years with a stainless-steel crown.

MAJOR ACHIEVEMENTS

Research Outcomes

Following the findings of long waiting times for GA procedures for children with severe dental caries, and the low rate of attendance for post-GA reviews, a change in dental process was urgently needed. It led to the introduction of the minimal intervention dentistry (MID) technique for preventative oral health care for Kindergarten (K) and Primary School (PS) children. The MID technique was the Winner of the Smart Geelong Award (2014) - Smart Initiatives for Healthy Minds and Healthy Bodies. It was also a Dental Health Services Victoria (DHSV) Finalist (2014) - Oral Health Project of the Year. We also completed a Clinical Guidelines Pilot Study.

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

- Evaluation, manuscript preparation and dissemination of results for 2015 Wide Smiles program
- Evaluation of the HT study completed re. clinical effectiveness, acceptability and cost-effectiveness
- Research project completed '*Assessing the barriers for improvement to oral health for Colac adolescents*'
- Data analysis well underway and manuscripts in preparation to be submitted to journals for the study '*Splash! Social and health inequalities to changes in drinking water in rural Victoria.*'
- Funding being sought to begin the project '*A novel setting for screening diabetes in the general community.*'

STAFF

Dr Michael Smith

Head of Oral Health Services at BH and Wathaurong Aboriginal Health Service and Colac Area Health Service. Michael has played an integral role in public health research projects in regional Victoria with the Romp-and-Chomp, Smiles-4-Miles and Kinder Wide Smiles programs.

Ms Sharon Sharp

Coordinator of Oral Health Services at BH and Wathaurong Aboriginal Health Service and Colac Area Health Service. Sharon has been involved in a number of public health research projects within regional Victoria with the Romp and Chomp, Smiles-4-Miles and Kinder Wide Smiles programs.

Miss Lara Mayze

Oral Health Therapist. Currently completing Masters of Public Health and working clinically with children attending community clinics. Lara has been involved in several research projects focusing on preventative dentistry and was a finalist in the Victorian Young Achiever of the Year.

Miss Ashlinn Mason

Oral Health Therapist working clinically with children attending community clinics. Ashlinn has been involved in several research projects focussing on preventative dentistry and gave a research presentation at the IAPD Congress, Glasgow (2015).

Associate Professor Margaret Rogers

Statistician – Oral Health Services, BH. Margaret is a very experienced Statistician who has published over 100 papers in the public health area largely in regional Victoria.

Dr Jacqueline Pawlak

Ethics Submission Coordinator – Oral Health Services, BH. Jacqui is interested in collaborative, ethical ways to address public health issues with research and has a background in neurotransmitter and cardiovascular research (co-authoring over 25 papers) and two papers in the oral health field.

STUDENTS

Ms Lara Mayze

Currently completing Masters of Public Health (University of Melbourne)

Ms Stacey Kellett

Currently completing Masters of Public Health

GRANTS

1.	Dental Health Services Victoria (DHSV) for Colac Area Health	'Assessing the barriers for improvement to oral health for Colac adolescents'	Dr Michael Smith	2015 - \$25,000
2.	William Buckland Foundation	'Effectiveness of a simplified method of managing carious primary molar teeth in young children using preformed metal crowns – Phase 2'	Adjunct Prof. Hanny Calache (DHSV)	Sept 2013- 2016 - \$245,835 over 3 years

MISCELLANEOUS/SCHOLARSHIP/ESTEEM

Community Engagement

The research program investigating strategies for early detection, intervention and remineralisation of children's carious lesions involved engaging the Early Learning Centres/Kindergarten communities in the Geelong (44 Kindergartens) and Colac-Otway (14 Kindergartens) regions. The prep classes of 25 primary schools were also engaged in the WS program. An outreach dental service was provided for people attending the Christ Church community meals program. These people were considered to be at risk of homelessness and were poor.

The outreach dental service used portable dental equipment for screening followed by referrals to the Oral Health Service at Community Health Care Clinics if follow-up work was necessary. In addition, the Buddy Project was carried out by Barwon Health in collaboration with the Centre for Culture, Ethnicity and Health (CCEH) and Diversitat. The Buddy project was developed to seek to address challenges in accessing oral health care among refugee communities living in the Geelong area. Mentees were the consumers involved in the Buddy project that had been in Australia for less than two years and were willing to be mentored. Mentees were recruited from the Karen, Afghan and Congolese refugee communities living in Geelong.

Committees

Dr Smith is a member of the following Committees:

- Barwon South Western Region Dental Steering Committee
- DHSV Public Oral health Leadership Council
- National Partnership Working Group MID
- BH Research Review Committee
- BH Medication Safety Committee
- BH Significant Medication Incident review Committee
- BH Radiation safety Advisory Group
- BH GP, Dental and Medical Training Placement, Credentialing Committee
- CHR Safety and Quality Committee
- CHRS Divisional Quality Committee

Dr Pawlak is a member of the BH Research Review Committee.

Key Collaborations with Named Organisations

- **Dr Michael Smith** also has an Honorary Appointment as a Fellow – Faculty of Medicine, Dentistry and Health Science, University of Melbourne.
- **Dr Michael Smith** is a member of the International Association for Dental Research (IADR)
- **Associate Professor Margaret Rogers** is also an Associate Professor at Deakin University

The GA research project was carried out in collaboration with:

- **H. Calache** – Dental Health Services Victoria (DHSV) and La Trobe Rural Health School, Dentistry and Oral Health, La Trobe University
- **A. de Silva** – DHSV and Melbourne Dental School, University of Melbourne

The HT research project was also carried out in collaboration with:

- **H. Calache** – DHSV and La Trobe Rural Health School, Dentistry and Oral Health, La Trobe University
- **R. Martin** – DHSV, North Richmond Community Health
- **U. Tonmukayakul** – Deakin University
- **R. Clark** – DHSV
- **J. Brownbill** – Melbourne Dental School, University of Melbourne
- **D. Manton** – Melbourne Dental School, University of Melbourne
- **M. Hall** – North Richmond Community Health
- **J. Armfield** – Australian Research Centre for Population Oral Health, University of Adelaide
- **R. Shankumar** – Monash Community Health
- **K. Sivasithamparam** – North Richmond Community Health
- **J. Martin-Kerry** – DHSV

The Splash! Social and health Inequalities to changes in Drinking Water in rural Victoria research project was carried out in collaboration with:

- **A. de Silva** – DHSV and Melbourne Dental School, University of Melbourne
- **E. Waters** – Melbourne School of Population Health, University of Melbourne
- **A. Scott** – Melbourne Institute of Applied Economic and Social Research, The University of Melbourne
- **M. Gussy** – School of Dental Science, La Trobe University, Bendigo
- **L. Gold** – Health Economics, Deakin University, Burwood
- **H. Calache** – DHSV and La Trobe Rural Health School, Dentistry and Oral Health, La Trobe University

The Clinical Guidelines Pilot Study was carried out in collaboration with **R. Clark** – Department of Health Services Victoria

The Buddy Project – Using local capacity to address oral health challenges in the Geelong area was carried out in collaboration with **P. Gwatarisa** – CCEH

It is proposed that the projects '*Assessing the barriers for improvement to oral health for Colac adolescents*' and '*A novel setting for screening diabetes in the general community*' be carried out in collaboration with **Ms Marg White** – Director of Community Services at Colac Area Health.

PALLIATIVE CARE

RESEARCH FOCUS

The Palliative Care Program is a member of The Palliative Care Clinical Studies Collaborative and has been involved in a number of Phase III clinical trials in palliative care since 2010, and has also recruited to an International pharmaceutical study in previous years. In 2014 the Palliative Care Program recruited to 4 Phase III palliative care studies and a pilot study for the prevention of delirium in patients with advanced cancer admitted to the Palliative Care Unit. Two of these studies reached their recruitment targets and they are awaiting the results. Members of the team have been doing some audits evaluating the Cancer Cachexia clinic. This work is ongoing and it is anticipated the work will be presented externally in 2016.

MAJOR ACHIEVEMENTS

- **Research Outcomes.** Two PaCCSC studies reached their recruitment goals in the previous 14 months. The program anticipates receiving the results of these studies in the near future
- Conference Presentations
- External Funding
- **Jacqui White:** Paper accepted for publication in the European Journal of Palliative care "When home care falters: out-of-hours visits to the emergency department"
- **Meg Harrison.** September 2014 Part of the Working Group with The DoH (Department of Health) that presented the "Introducing pain clinical indicators for palliative care across Victoria through successful partnerships" at ANZSPM (Australian New Zealand Society Palliative Medicine)
- **Meg Harrison.** November 2014 Victorian Respiratory Network Inaugural Professional Development, Alfred Hospital- Presented the "Palliative Care Breathlessness clinic"

- **Meg Harrison.** December 2014 Abstract accepted and poster presented at COSA (Clinical Oncology Society of Australia) on "evolution of the cancer cachexia clinic"
- **Meg Harrison.** November 2015 Part of team for the poster presentation for the Australasian Telehealth society Forum in Brisbane. **Dr Niamh O'Conner** presenting on telehealth with the Palliative Care breathlessness clinic
- **Peter Martin** and **Anna Dowd** contributors to paper accepted for presentation at the Australian Palliative Care Conference in September 2015, "Randomised double blind placebo controlled phase II trial of melatonin for prevention of delirium in inpatients with advanced cancer"

LOOKING FORWARD - ANTICIPATED HIGHLIGHTS IN THE NEXT 12 MONTHS

The Palliative Care Team recently established the Palliative Care Research Group. Its aim is to encourage and facilitate a multi-disciplinary palliative care research program. Their first meeting was on 24 August 2015 where two proposals were discussed.

STUDENTS

Meg Harrison

Masters of Nursing Practice – Nurse Practitioner

OTHER RESEARCH GROUPS

OVERVIEW

Several other units within Barwon Health have participated in research over the years, especially in areas not traditionally involved in further study. These growing and emerging research groups look forward to continued growth in research.

The Rehabilitation Service has a major research focus on the quality of patient experience, prevention of disability by the utilisation of orthotics, assistive technology and new therapy techniques underpinned by consumer-centred care. There have also been a number of projects exploring professional training, skills and attributes required by rehabilitation staff in a number of settings. There is a particular emphasis on enhancing the research culture and learning from the progress of analogous services.

The Neurology Department is developing new and emerging treatments for Multiple Sclerosis, developing a Clinical Registry, researching new reperfusion strategies for stroke patients and working on population-based Epidemiology. They expect to begin recruitment into two studies over the next year.

The Gastroenterology Unit will continue to work with teams from St Vincent's Hospital on IBD, identifying its epidemiology, therapeutic monitoring and optimal treatments. Other research will focus on Coeliac Disease, Pancreatic diseases and managing acute GI bleeding.

The Anaesthetics team will continue to research performance monitoring, healthcare quality and safety and aspects of medical ethics to ensure patients receive the most appropriate care and have the best outcomes before, during and after surgery.

Aged Care and the Cardiology Unit have also begun to research issues critical to patient-centred care.



CLINICAL TRIALS (INDUSTRY SPONSORED AND INVESTIGATOR INITIATED)

Clinical trials are the cornerstone of evidence-based improvements in healthcare for patients. Barwon Health is a regional leader in providing patient access to high quality, well-managed clinical trials. Our experienced Clinical Trial Managers and highly competent Principle Investigators are fundamental in developing Investigator Initiated Clinical Trials, facilitating Collaborative Group Clinical Trials and attracting commercially sponsored clinical trials to Barwon Health.

Clinical Research is embedded within many departments across Barwon Health. A snapshot of Clinical Research Department achievements for the 2014/2015 financial year is provided by Clinical Trial Managers at Barwon Health.

CLINICAL TRIAL UNIT (ENDOCRINOLOGY)

The Clinical Trial Unit (CTU) commenced four new projects in the 2014/2015 year, bringing the total projects to 16 and the total patients involved in CTU trials to 270. The funding attracted to the unit by these projects was approximately \$500,000, and this supported the addition of a new team member, boosting the CTU FTE to 5.85.

The milestones for the year included the following study and unit achievements.

STUDY ACTIVITY

- Highest recruiter in Australia for four of our current studies
- Recruited above target for three of our current studies
- Recruiting the first patient for the IMPACT *C.diff* study in the Asia Pacific region, as well as being the highest recruited in the Asia Pacific region
- Enrolling the first paediatric patient in clinical trial at Barwon Health

UNIT PROFILE AND OUTPUT

- Two additional staff members achieved ACRP (Academy of Clinical Research Professions) certification in March 2015, successfully passing a three hour exam to demonstrate their knowledge of clinical research and Good Clinical Practice.

- Acceptance into the JDRF (Juvenile Diabetes Research Foundation) Type 1 Diabetes Clinical Research Network

CARDIOLOGY

Recently, the Cardiology Research Unit celebrated 15 years of operation. Under the direction of Associate Professor John Amerena, the unit has participated in many large-scale, international research trials. The unit has been involved in the development of a number of new therapies, treatment options and interventional procedures, which have now become the standard of care for patients with cardiovascular disease.

The growth of the department has been significant, with 15 members of staff working on 30 clinical trials and investigator-initiated projects. The ongoing expansion of the team has facilitated greater access to treatments for Geelong and the wider community, and has seen the unit at the forefront of cardiovascular research in Australia, having recently received recognition for enrolling the first patient in Australia for a large-scale inpatient trial.

MENTAL HEALTH

The Clinical Trials Division of the IMPACT SRC is headed up by Dr Olivia Dean, a Deakin University research fellow who has been working across Barwon Health for more than 10 years. The Clinical Trials Division predominantly focuses on novel therapies for psychiatric disorders. The trials utilise existing medications and health supplements to be used as add-on therapies for people with psychiatric illness. The trials are solely investigator-initiated, which means they are not commenced by pharmaceutical or health food companies, but by doctors themselves. The division relies primarily on funding from the National Health and Medical Research Council as well as philanthropic support including the Stanley Medical Research Institute and the Brain and Behaviour Foundation. The division has produced high impact results, leading to changes in practice. An example of this is the work led by Professor Michael Berk, using N-acetyl cysteine (an antioxidant booster). N-acetyl cysteine is now being used by clinicians as an add-on to usual treatment for depression based on the work coming out of the IMPACT SRC.

PALLIATIVE CARE

The Palliative Care Trials Team is a small unit (1.2 EFT). We currently have two trials open to recruitment; one for breathlessness and the other for nausea. Over the past year we randomised 22 participants onto our trials. Most of these patients were in the community but some were recruited through the Palliative Care Unit and University Hospital Geelong. The unit is headed by Associate Professor Peter Martin, and the Co-Investigators are Dr Ian Grant, Dr Peter Eastman, Dr Helen Farrell and Dr Caroline Murtagh. We offer an inpatient and outpatient service.

The focus of our trials is symptom control and improved quality of life. We find our patients are very receptive to hearing about clinical trials; even the slightest improvement in one of their symptoms can make a big difference to their quality of life.

We have had two trials and a pilot study close to recruitment recently and have two trials opening in the near future.

Interim results for the Delirium study, *Randomised double blind control trial of oral risperidone versus oral haloperidol versus oral placebo with rescue subcutaneous midazolam in the management of delirium in palliative care inpatients* were presented at the Australian and New Zealand Society for Geriatric Medicine ANZSGM Annual Scientific Meeting in Perth in May by a member of the PaCCSC, a collaborative group we belong to.

HEMATOLOGY/ONCOLOGY

The Haematology Oncology Trials Team would like to highlight the successful completion of enrolment for two of their industry-sponsored clinical trials and one investigator-initiated trial during the 2014/15 financial year.

The Foxfire Global study: *Assessment of Overall Survival of FOLFOX6m plus SIR-Spheres microspheres versus FOLFOX6m alone as first line treatment in patients with non-respectable liver metastases from primary colorectal carcinoma in a randomised clinical study* reached its recruitment target on December 24 with Barwon Health contributing eight patients, up from a planned five patients. Big congratulations to all involved and in particular to Dr Madhu Singh (PI) and Rob Tobler (SC). The PROSTVAC Trial: *A Randomized, Double-blind, Phase 3 Efficacy Trial of PROSTVAC-V/F ± GM-CSF in Men With Asymptomatic or Minimally Symptomatic Metastatic, Castrate-Resistant Prostate Cancer* reached its recruitment target with Barwon Health contributing 11 patients, up from a planned five patients. Big congratulations to all involved and in particular to Dr Maitham Mathlum (PI), Rob Tobler (SC), Pharmacy and Day Ward.

The Neonab study *Tailored neoadjuvant epirubicin and cyclophosphamide (EC) and nanoparticle albumin bound (NAB) paclitaxel for newly diagnosed breast cancer* recently reached its target recruitment of 40 patients. This Investigator-Initiated study has been designed, led and coordinated through the Andrew Love Cancer Centre by Dr Mustafa Khasraw with sites at South West Healthcare, Warrnambool, Royal North Shore Hospital, Sydney and Bankstown-Lidcombe Hospital, Sydney. The study was activated in April 2013 and has met its target in less than two years. This is fantastic effort by Neonab team, Dr Mustafa Khasraw (PI), Violet Mukaro (Project Officer) and Michelle Edwards (SC). The study also included collaboration with a research team at Deakin University and there is international interest in the results of the study and the insights that the translational research will provide.

INTENSIVE CARE UNIT (ICU)

The ICU research team have commenced a number of new clinical trials this financial year and all are on target in the recruitment phase. In addition we have 15 ongoing clinical trials. Overall we have recruited 92 participants to trials in this time period, as well as an additional 247 participants recruited to the i-Validate Investigator-Initiated study.

ICU BARWON HEALTH INVESTIGATOR-INITIATED CLINICAL TRIALS

- i-Validate, Identifying values, listening, and advising high-risk patients in acute care (247 recruited)
- A 10 year retrospective audit of obstetric patients admitted to intensive care in an Australian tertiary hospital
- Outcomes of patients admitted to intensive care with haematological malignancies in an Australian tertiary hospital; a retrospective 5 year audit
- Before and after study of the effects of ventilator associated pneumonia bundle care in a tertiary critical care
- Outcomes of patients admitted to tertiary ICU with neurological diagnosis: A retrospective audit

Commercial

- ASPECT - A Prospective, Randomized, Double-Blind, Multicenter, Phase 3 Study to Assess the Safety and Efficacy of Intravenous Ceftolozane/tazobactam Compared With Meropenem in Adult Patients with Ventilator Nosocomial Pneumonia

Other Collaborative Investigators

- PROTECTIN - PROspective TrEatment to Counter the Systemic InflammATory Response Syndrome with AspirIN
- SPLIT - A Pilot, Randomised, blinded, multicentre, feasibility, safety and biochemical and physiological efficacy study of normal saline vs. plasmalyte in Intensive therapy

INDUSTRY LEADERSHIP

Research Governance Good Practice Process for Site Assessment and Authorisation an NHMRC initiative

Barwon Health was delighted to be chosen as a pilot site for the National Health Medical Research Council (NHMRC) initiative 'Good Practice Process'. The NHMRC sought input from key stakeholders to develop a national 'Good Practice Process' (GPP) which aims to streamline the research governance process in order to reduce delays in clinical trial commencement. A six-month pilot of the GPP has commenced at a number of institutions across Australia, with the view to rolling out a refined GPP nationally in the future.

The GPP contains two key improvements to reduce delays:

- An increased commitment to planning, preparation and ongoing support for clinical trials within institutions
- A paradigm shift in research governance site assessment and authorisation, whereby the majority of site assessment is conducted prior to and in parallel with ethical review

Importantly, the NHMRC has recognised delays in commencing a clinical trial at a site not only rest within a Research Office, but rather can include delays from sponsors, principles investigators, clinical trial coordinators, research department and institutional delays. Thus, the GPP spans timeframes from initial approach to a site department or Principle Investigator by a sponsor, to first-patient recruitment. Sites will record the timeframes for key components of the research governance process. The main timeframes of interest are feasibility timeframe, governance submission to site authorisation and site authorisation to first patient recruited at site. These timeframes will be collected pre GPP implementation as baseline figures, and then collected for the six months of the pilot to determine if delays were reduced.

NHMRC funding for the pilot has provided a fantastic opportunity for the Barwon Health Research Governance and Integrity (REGI) Unit to dedicate resources to implement the trial. In addition to collection of data points and timeframes, the REGI Unit is running education sessions on process changes, a Clinical Trial feasibility workshop for Clinical Trial Co-Ordinators and Research Project Sign-off Sessions for Department Heads and Executives. This should not only lead to increased efficiencies in trial commencement, but also a highly skilled clinical trials workforce, and ultimately ensure commercial sponsors view Barwon Health as a leading site to conduct clinical trials.





SECTION 3

RESEARCH DIRECTORATE

RESEARCH DIRECTORATE

INTRODUCTION

Barwon Health is a Public Health Service committed to facilitating and engaging in health and medical research that addresses the health challenges of the Barwon South West Region. Major areas of strength are in mental health, population health and epidemiology and these areas are supported by medium to large research groups of clinical academics, research scientists and postgraduate students. Collaborative relationships with higher education providers, such as Deakin University have enhanced Barwon Health's research capacity and capability and contribute to research education and training within the health service.

BARWON HEALTH'S RESEARCH VISION AND MISSION

Barwon Health's health and medical research takes a whole of lifespan, whole of health system approach to transforming healthcare and health service delivery addressing the leading health challenges of the Barwon South West Region.

With a clear focus on population health and chronic disease Barwon Health's health and medical research changes lives, translates knowledge into practice and policy and focuses on research excellence to deliver sustainable healthcare that benefits the Barwon South West Region.

OUR KEY DEFINING FEATURES, FROM A RESEARCH PERSPECTIVE ARE:

- **Expertise** in key areas relevant to the region's health challenges - mental health, population health, epidemiology, growing capacity in aged care, rehabilitation, end of life, health service innovation and e-health
- **Engagement** through a research-willing workforce, a participative community and leading a robust network of regional partners
- **Environment** that provides a unique conflagration of access to research partners (Deakin University, CSIRO/ Australian Animal Health Laboratory), health service partners (Western Victoria Primary Health Network, Regional Health Partners Public and Private), local government (Committee for Greater Geelong), State and National Government Agencies (Transport Accident Commission, National Disability Insurance Agency) and unique access to a representative demographic in a defined catchment

RESEARCH IN CONTEXT

Health and medical research is about helping people to be healthier and ensuring better health outcomes for communities; whether that is through the development of new and better ways to prevent, diagnose and treat diseases or promote population health. Significant collaborative projects, such as The Geelong Centre for Emerging Infectious Diseases (GCEID), are indicative of Barwon Health's research capacity and capability and contribute to the development and leveraging of a high-value knowledge economy for the Geelong region. Health and medical research conducted at Barwon Health contributes to the generation and transfer of knowledge that influences health care delivery, health outcomes and health policy for the Barwon South West Region and beyond highlighting the key link between investment in health research and the quality of health services.

Barwon Health is an instrumental partner in contributing to the research and scientific profile of the South West Region and is well placed to emerge as a leader in regional health service research, health system innovation and consumer-centred approaches to integrated health care. Barwon Health continues to build on past and current success to support health and medical research across the whole spectrum of comprehensive, excellence-based research to secure the vision of enabling world class integrated health care informed by research that benefits the region.

RESEARCH COMMUNITY

The research community at Barwon Health is heterogeneous. The research community at Barwon Health is diverse and requires different levels of support from the organisation. Support ranges from the facilitative (e.g. a framework of support for efficient and best practice governance processes) to more interventionist approaches (e.g. developing research projects/programs for researchers to participate in to gain skills). The diverse nature of these heterogeneous groups requires a flexible approach to ensure the right balance is struck between empowering staff to be research-engaged, individual researcher needs and interests and organisational needs and other interests (e.g. themed research supporting strategic health or service delivery priorities). A research willing workforce is Barwon Health's greatest asset and providing directed support that is centrally driven to meet the needs of early graduate practitioners, to build research capacity and capability is a priority in facilitating the vibrant research culture at Barwon Health.



RESEARCH DIRECTORATE STAFF AND STRUCTURE

Headed by Professor Frances Quirk, the Barwon Health Research Directorate's prime task is to enable quality, relevant health and medical research aligned with Barwon Health's strategic plan. It also supports the intent of Barwon Health's research objectives and addresses the health challenges of the region.

Professor Quirk provides leadership in the mentoring and fostering of research across the organisation, facilitates research capability and capacity building and provides leadership in the development, governance, quality and risk management of research associated with Barwon Health and its partners. She manages the three units of the Research Directorate (Research, Ethics, Governance and Integrity Unit, Biostatistics Unit and Health Service Research Unit) and links to the Barwon Health Executive through membership of Teaching, Training and Research Governance Committee, OHS, Risk and Emergency Management Governance Committee and the Executive Governance Committee.

Dr Giuliana Fuscaldo manages the Research Ethics, Governance & Integrity (REGI) team, that works together to ensure all research conducted under the auspices of Barwon Health exemplifies the highest ethical standards and complies with national and international guidelines and legislation. Dr Fuscaldo and her team provides support, advice and training to experienced and novice researchers on research design, ethics applications and research dissemination. The REGI team manages the ethics, review and monitoring of audits, low and high risk research and the work of the Barwon Health Human research ethics committee (HREC) and its associated sub-committee, the Research Review Committee.

Lisa Fry, Research Governance Officer, part of the REGI team, facilitates collaborative research between Barwon Health and drug companies, healthcare institutions and universities. She ensures patients at Barwon Health are offered participation in high quality, well managed research projects.

Melissa Cadwell, Research Ethics Officer, brings to the REGI unit a background in social research and evaluation, project coordination and administration. Melissa's role is to support research conducted within the auspices of Barwon Health, to ensure that research exemplifies rigorous standards of ethics and governance and complies with national standards, guidelines and regulations.

Administrative tasks within the Research Directorate and the REGI Team are handled by Gail Benson, Donna Killeen and Kristin Wallis as the Research Administrative Officer.

Dr Stephen Lane is a Senior Biostatistics Officer within the Biostatistics Unit of the Research Directorate. He provides a collaborative consultative service for Barwon Health staff that require statistical expertise for their projects. Specific examples include study design, power calculations, and analysis and modelling of data.

Health service research project management and consultation advice is provided by Stephen Gill in his role as Health Service Research Co-ordinator in the Health Service Research Unit.



BARWON HEALTH HUMAN RESEARCH ETHICS COMMITTEE (HREC)

HREC CHAIRPERSON'S REPORT

I was initially invited to Chair the Barwon Health HREC in 2009. At the time I was recovering from a year of intensive chemotherapy and a resection of my left tibia to treat an osteo-sarcoma. Due to an innovative treatment regime at Peter MacCallum Cancer Centre I had not only been successfully treated for the sarcoma but had been able to avoid the standard treatment of amputating the affected limb. This gave me a very real, personal insight into the value of medical research. Consequently the opportunity to Chair the HREC and thereby make a small contribution to the advancement of quality medical research in the Barwon region is something that was, and continues to be, appealing to me.

The HREC carries out an important statutory function, having oversight over medical research that is carried on in our region. The HREC is responsible for ensuring the research that is carried out in the region complies with the ethical guidelines that have been prescribed in the National Health and Medical Research Committee's National Standards. These reviews require the HREC to consider the integrity of the methodology as well as practical issues such as whether a prospective participant is being provided with the information that they need to make an informed choice about participation in a research project, or whether decisions about excluding certain groups from participating in the project is justified.

The membership of the HREC consists of a mixture of health professionals and lay people, representing different groups within our community. This mixture is invaluable in bringing different perspectives to bear when considering a project. The technical expertise that the health professionals bring ensures that the HREC is able to understand the technical details of the research and to rigorously review the methodology that is being proposed. The lay members are then able to overlay that with a perspective that is more removed from the day to day practice of medicine and research and draws on their own unique backgrounds and expertise.

Whilst there are statutory requirements to ensure that the membership of the HREC includes people from a range of backgrounds it is also important to ensure the committee consists of a mixture of older and younger members, and men and women, in order to have a diversity of opinions and insights. We also regularly

bring new people into the group in order to bring a fresh perspective to the discussions.

A certain level of formality is required in the business of the HREC but I like to keep the proceedings as informal as possible to allow discussions to take place in an atmosphere that allows all members to raise questions and offer their particular insights.

The HREC is only able to function due to the excellent support that it receives from the Barwon Health Research Office – the Research Ethics Governance and Integrity Unit (REGI), the Research Review Committee (RRC), the Variations Review Meeting and the reports on Serious Adverse Events and Safety items that are provided to the HREC each meeting.

The REGI Office do a tremendous amount of work between the HREC meetings to make sure that the decisions of the HREC are implemented and that projects are being properly managed. This work includes working with researchers to ensure that applications are ready to go to the RRC and HREC, conveying feedback from the Committee's, seeking further information about a project, reviewing reports and organising the HREC and RRC meeting Agendas and Minutes.

Having been in the role for a number of years now, I have come to have a good understanding of the breadth of research that takes place in our region. There are a vast number of researchers who are engaged in developing better ways of caring for and treating people who suffer from a range of conditions that seriously impact on their quality of life. Some of the projects involve major innovations and international collaborations whilst others look for incremental improvements in processes or small variations to a standard treatment. Yet all of them have the potential to make a significant difference to the lives of people in our region and beyond and that is what continues to make the role so rewarding.



A handwritten signature in black ink, appearing to read 'Simon French'.

Simon French

HREC Research Types

Research Type	Year	Number of projects in category
Basic Applied Research (e.g. Laboratory Work)	2013-2014	1
Clinical Research	2013-2014	202
Clinical Trial under CTN/CTX Scheme	2013-2014	121
Epidemiological Research	2013-2014	34
Register: Database	2013-2014	32
Review/QA	2013-2014	109
Section 19(5) (Authorised Prescriber)	2013-2014	0
Qualitative Research	2013-2014	23
Public Health	2013-2014	8
Psychological	2013-2014	5
Data Access Request	2013-2014	4
Social Science	2013-2014	2
Unclassified	2013-2014	15
Basic Applied Research (e.g. Laboratory Work)	2014-2015	1
Clinical Research	2014-2015	135
Clinical Trial under CTN/CTX Scheme	2014-2015	138
Epidemiological Research	2014-2015	30
Register: Database	2014-2015	33
Review/QA	2014-2015	131
Section 19(5) (Authorised Prescriber)	2014-2015	3
Qualitative Research	2014-2015	16
Public Health	2014-2015	0
Psychological	2014-2015	0
Data Access Request	2014-2015	0
Social Science	2014-2015	0
Unclassified	2014-2015	0

PROFILE OF RESEARCH SUBMITTED FOR ETHICS APPROVAL

RESEARCH PROJECTS DURING 01 JULY 2014 AND 30 JUNE 2015

The REGI Unit managed 487 ongoing research projects during this time.

This number of research projects can be categorised into the below research types as follows:

Ongoing Research Projects for the Period 01 July 2014 to 30 June 2015

Research Type	Number of Projects
Basic Applied Research (e.g. Laboratory Work)	1
Clinical Research	135
Clinical Trial under CTN/CTX Scheme	138
Epidemiological Research	30
Register: Database	33
Review/QA	131
Section 19(5) (Authorised Prescriber)	3
Qualitative Research	16
Total	487

The Research, Governance and Integrity (REGI) Unit approved 122 new projects during the period 01 July 2014 to 30 June 2015.

Of these:

- 35 were approved through the Streamlined Ethical Review Process
- 7 were approved by the Human Research Ethics Committee as greater than low risk
- 18 were approved by the Research Review Committee as low risk and 62 projects were approved as exempt/negligible risk by the REGI Unit

A Snapshot of Barwon Health-Deakin University Projects Currently Open

No.	Project Title	Principal Researcher	Research Team
10/93	Continuity of care and gestational weight gain in obese women	Associate Professor Cate Nagle	Dr Helen Skouteris, Dr Anne Hotchin
11/46	A double blind placebo controlled randomized trial of PF-00299804 (PF-804) in patients with incurable stage IIIB/IV non-small cell lung cancer after failure of standard therapy for advanced or metastatic disease	Prof. David Ashley	David Ashely: Madhu Singh, Adam Braod, Karen White, Roger McLennan, Mustafa Khasraw, Inger Olesen, Rodney Lynch, Maitham Mathlum, Graham Pitson , Richard Bell, Michael Frances
12/35	Development and Applications of Absorbable Materials for Surgical Operations with Special Reference to "Median Sternotomy" using simulation techniques in conjunction with confirmatory tests	Dr Rashid Ahmad	Professor Peter Hodgson: Dr Alessandra Sutti: Andrew Whan: Dr Bo Zhang: Ms Kate Negus
12/48	Tailored neoadjuvant epirubicin and cyclophosphamide (EC) and nanoparticle albumin bound (NAB) paclitaxel for newly diagnosed breast cancer (NEONAB)	Dr Mustafa Khasraw	David Ashley, Madhu Singh, Adam Broad, Karen White, Inger Olesen, Graham Pitson, Michael Francis
12/83	Capitalising on the Data deluge: Data Analytics for Health Data	Professor Michael Berk	Professor Michael Berk, Professor Svetha Venkatesh, Dinh Phung, Tom Callaly
12/103	Comparative analysis of viral replication and innate host responses in primary human alveolar epithelial cells and alveolar macrophages	Siying Ye	Dr Siying Ye, Dr John Stambas, Dr Cheng-Hon Yap, Dr Bo Zhang, Ms Suzanne Lowther
13/16	Epigenetic predictors of outcome in malignant glioma (NHMRC 1049609; MH:2013.084; DU 2013-124: David Ashley RM24931)	Professor David Ashley	
13/68	The Brinary	Debbie Verikios	Debbie Verikios; Danielle Hitch; Larissa Andriske, Jodie Reid
13/94	Enhancing the patient journey, in upper limb neurological rehabilitation, using SaebFlex	Larissa Andriske	Ms Larissa Andriske; Ms Danielle Hitch; Ms Debbie Verikos
13/117	An interactive computer program for assessing competency in telephone-based Mental Health Triage - Pilot - Final Report received, closing.	Associate Professor Natisha Sands	Associate Professor Stevin Elsom, Ms Karen Bourke-Finn
13/165	National Antimicrobial Prescribing Survey (NAPS)	Alicia Neels	

HREC MEMBERSHIP

BETWEEN 1ST JULY 2014 AND 30TH JUNE 2015

HREC MEMBERSHIP

- Mr. Simon French (Chair)
- Mr. Vincent Haveaux
- Mr. Darryl Towers
- Ms. Gayle Newbury
- Ms. Elizabeth Thomas
- Dr. Amutha Samuel
- Dr. Cameron Osborne
- Professor Trisha Dunning
- Mr. Greg Weeks
- Dr. Rod Fawcett
- Mr. Lynsey Blakston
- Rev. Kevin Yelverton
- Mr. John Hannagan
- Ms. Veronica Whitmore
- Dr. John Rolley
- Dr. Cate Nagle
- Dr. Nicole Anastos
- Dr. Renee Otmar
- Dr. Leah East
- Ms Melissa Cadwell (Secretary)
- Ms Kristin Wallis (Secretary until August 2014)

INCOMING (APPOINTMENTS TO THE HREC)

- Professor Trisha Dunning
- Dr Nicole Anastos
- Ms Melissa Cadwell

OUTGOING (RESIGNATIONS FROM THE HREC)

- Rev. Kevin Yelverton
- Dr. Amutha Samuel
- Ms. Kristin Wallis

HREC MEMBER SPOTLIGHT

Reverend Dr Kevin Yelverton



This year has been a busy and productive time for the Barwon Health HREC, including a successful application for renewal of NHMRC HREC accreditation for a further three years and the addition of research involving Paediatrics to our HREC certification.

Unfortunately we have also had to say farewell to one of the longest serving members, Reverend Dr Kevin Yelverton. Kevin joined the HREC in 2007 and has made a significant contribution to the Committee for more than eight years.

Kevin contributed his profound understanding of morality and of the principles of The National Statement on Ethical Conduct in Human Research through careful analysis and respectful debate. As the 'Pastoral Care' member, Kevin offered unique insights and encouraged deep reflection on community values and interests. He has greatly enjoyed the camaraderie and professionalism of the committee.

Kevin is a Uniting Church Minister with the congregation of St David's Uniting Church, Newtown. He also serves on the Council of the Geelong College. Kevin's leaves the Barwon Health HREC to take up the role of Chair of Pastoral Relations in the Port Phillip West Presbytery of the Uniting Church of Australia.

The Research Directorate would like to acknowledge Kevin's long association with the Committee, and thank him for his commitment to Barwon Health's research endeavours. We wish him well as he continues to make an important contribution to the Barwon community.

Elizabeth Thomas

Elizabeth Thomas is a retired physiotherapist who has lived for more than 30 years in Point Lonsdale. After completing her physiotherapy course she worked at The Alfred Hospital and at various hospitals in rural Victoria. She then worked for a year at a rehabilitation centre in Edmonton, Alberta, Canada before moving to Papua New Guinea where she was in charge of a Red Cross Handicapped Children's Centre for four years. During this time she completed a Bachelor of Arts at the University of Papua New Guinea. After two years at The Armidale and New England Hospital, she relocated to the Geelong area and for more than 20 years worked as a paediatric physiotherapist with the Victorian Government Department of Human Services where she was involved in Early Intervention Services. Since retiring, Elizabeth has served on the Board of Bellarine Community Health Services and has also been President of Bellarine Catchment Network. Since 2006 she has been a consumer representative with Barwon Health, and now serves on the Falls Prevention Committee, HREC, and Written Information Suitability Evaluation Committee (WISE).

A LAY PERSON'S EXPERIENCE ON THE HREC



Elizabeth Thomas

As a consumer representative with Barwon Health, I was invited to join the HREC as a lay person nearly two years ago, having already been involved in two other committees and other consumer activities with Barwon Health. The ethical issues around human research have always interested me, particularly because of my paramedical background, so I was pleased to accept.

At first I found this role a little daunting – as the meetings are necessarily quite formal and take place in the early evening there is very little

opportunity to talk to other members before or after the meeting. It can be quite difficult to follow the sometimes technical and abstract discussions when you are a beginner, especially before you have mastered the roles of the other members and learnt their names. There are also a lot of new acronyms and it is useful to get a list of these from the start. The Research Office is very helpful in this regard, and also holds training sessions which provide more insight into ethical procedure.

The process of reviewing a research project is quite exacting and requires plenty of time. The most important ones for a lay person are the Protocol, the Patient Information and Consent Form and the National Ethics Application Form. The other documents are also very important, but as a lay person you can comment on the former from the point of view of a consumer. I also feel that sometimes documents are not easy to read and a lay person can pick up awkward grammar or phrasing which if corrected makes the documents easier to understand.

The members of the HREC have varied backgrounds and life experience. From a personal view point, I feel that as one of the older members of the committee I can represent that perspective in my comments.

Once you have settled into your role on HREC it is a very rewarding and absorbing experience. The wide range of research projects is not only interesting but makes one aware of the amazing scope of the research taking place in the Barwon Region. It is also a privilege to be part of this process and to play a small role in ensuring that the proper ethical principles are being followed.

Darryl Towers



I just assumed medical research took place but I really did not have much insight into what happens within research organisations or hospitals. Then I joined the HREC committee at Barwon Health as a lay member.

I soon became aware of a diverse range of medical research projects being undertaken by Barwon Health researchers and affiliated partners (e.g. Deakin University, other major hospitals etc.).

The HREC committee is comprised of professional, medical staff and laypersons with standards of medical research projects driven by National Standards.

As a lay member I am able to examine research projects from the 'consumer point of view' and request changes to the projects if I feel that consumer interests are not being met or protected.

I am so impressed by the variation and quality in medical research projects coming to the Barwon Health HREC for approval and the links with the REGI group and Research week.

RESEARCH REVIEW COMMITTEE

The Research Review Committee (RRC) is a standing subcommittee of the Human Research Ethics Committee (“HREC” or “The Committee”). The RRC is scheduled to meet monthly and is listed on the monthly HREC agenda as a standing item.

The primary purpose of the RRC is to review all research projects for scientific merit, methodology and integrity before making recommendations to the HREC. The HREC delegates the authority to the RRC to approve low risk projects. Those projects approved through RRC are ratified at the next HREC meeting.

The RRC estimates the risk of each research project prior to HREC review and advises accordingly. The RRC can make any of the following recommendations:

- Recommend a project as low risk and approved by RRC (for HREC ratification);
- Recommend a project as low risk and approved by RRC once certain conditions are met (for HREC ratification);
- Recommend a project as greater than low risk and requiring full HREC review;
- Recommend that an investigator be present at the HREC meeting to present/discuss a research project, and;
- Recommend that a project is not approved.

MEETINGS DURING THE PERIOD OF 01 JULY 2014 AND 30 JUNE 2015

- The HREC met eight times during this period.
- The RRC met nine times during this period.

RESEARCH REVIEW COMMITTEE MEMBERSHIP BETWEEN 1 JULY 2014 AND 30 JUNE 2015

- Dr. Giuliana Fuscaldo (Chair)
- Dr. Mustafa Khasraw
- Dr. Stephen Lane
- Ms. Kathryn Ives
- Ms. Susan Streat
- Ms. Melissa Cadwell (Secretary)
- Dr. Rod Fawcett
- Dr. Jacqui Pawlak
- Ms. Tania Salerno
- Professor Trisha Dunning
- Dr. Michael Smith
- Dr. Adrienne O’Neil
- Ms. Carolyn Williams
- Dr. Gillian Thomson
- Mr. Paul Muir
- Dr. Olivia Dean
- Associate Professor Mark Kotowicz

Outgoing (Resignations from the RRC)

- Dr. Stephen Lane
- Dr. Adrienne O’Neil
- Dr. Gillian Thomson
- Dr. Olivia Dean
- Dr. Mustafa Khasraw

Incoming (Appointments to the RRC)

- Ms. Kathryn Ives
- Ms. Melissa Cadwell





SECTION 4

BARWON HEALTH RESEARCH
COLLABORATIONS AND
PARTNERSHIPS

AUSTRALIAN COLLABORATIONS AND PARTNERSHIPS

A SNAPSHOT OF COLLABORATIONS AND PARTNERSHIPS ACROSS AUSTRALIA

VICTORIAN

Adolescent and Young Adult Program (AYA)

ANZDATA Dialysis Modalities Project (ANZDATA), Adelaide

Australasian Gastro-Intestinal Trials Group (AGITG)

Australasian Leukaemia and Lymphoma Group

Australasian Lung Cancer Trials Group (ALTG)

Australia and New Zealand Breast Cancer Trials Group (ANZBCTG)

Australia New Zealand Gynaecological Oncology Group (ANZGOG)

Australian and New Zealand Urogenital and Prostate (ANZUP) Cancer Trials

Australian Catholic University, Melbourne

Australian Commission for Quality and Safety in Health Care

Australian Diabetes Educators Association

Australian National University, Canberra

Australian Nursing Federation (ANF)

Australian Society for HIV Medicine (ASHM)

Australian Society for Infectious Diseases (ASID)

Australian Type 1 Diabetes Clinical Research Network, Juvenile Diabetes Research Foundation

Barwon South Western Region Dental Steering Committee

Breast Cancer Network (BCNA)

BUPA Foundation

Burnet Institute

Cancer Australia Intercollegiate Advisory Group

Cancer Council Victoria's Clinical Network - Clinical Research Professionals Committee

Cancer Services Information Technology Reference Group (ITRG) Committee

Cancer Trials Australia (CTA) Charles Sturt University

Clinical Nursing Society of Australia (CNSA)

Clinical Trial Advisory Committee (CTAC)

Clinical Trials Research Professionals Group Executive Committee

Constitutional Review Committee of ANZBMS

Council of Therapeutic Advisory Groups

Deakin University - Centre for Quality and Patient Safety Research

Deakin University - Faculty of Health Human Ethics Advisory Group (HEAG)

Deakin University - Health Economics, Burwood

Deakin University - Human Research Ethics Committee (DUHREC) Geelong

Deakin University - Metabolic Research Unit

Deakin University - School of Engineering

Deakin University - School of Nursing and Midwifery

Deakin University - Student Supervision, Research and Teaching

Deakin University Grant Application Reviews

Dental Health Services Victoria (DHSV)

Department of Health and Ageing (DoHA) Pharmaceutical Policy Branch

Department of Health Services (DHS) Ministerial Advisory Committee - Access to Surgery

Department of Social Services

Diabetes Australia - Vic Clinical Advisory Committee

Diabetes Australia International Affairs Committee

Diabetes Australia Policies and Programs Committee

Diabetes Australia Research Trust Grants (DART) Coordinate review of the education and behavioural research grant applications

Flinders University - Melbourne

Florey Institute of Neuroscience and Mental Health

George Institute, Sydney

Healthcare Associated Infections Advisory Committee (HAI)

Hospital in the Home (HLTH Society)

James Cook University, Townsville

John Hunter Hospital, Newcastle, Australia

La Trobe Rural Health School, Dentistry and Oral Health, La Trobe University

La Trobe University - School of Dental Science, Bendigo

Medical Research Council

Melbourne University

Melbourne University - Melbourne Institute of Applied Economic and Social Research

Menzies Institute - Tasmania

Menzies Research Institute, Hobart, Tasmania

Monash Community Health
Monash University - Melbourne
Murdoch Children's Research
Institute, Parkville
Murdoch Childrens Research Institute
(MCRI)
National insulin Inpatient chart pilot
test advisory group
National Partnership Working Group
(MID)
NHMRC Panel: Translational Research
in Low and Middle Income Countries
North Richmond Community Health
Orygen, The National Centre of
Excellence in Youth Mental Health
Primary Care 4 (PC4)
Psycho-Oncology Co-operative
Research Group (PoCOG)
QIMR Berghofer Medical Research
Institute, Brisbane

Queensland University of Technology,
Brisbane
RACS International Committee
Royal Australasian College of
Physicians
Royal Australasian College of
Physicians Evolve Forum – Evaluating
Evidence Enhancing Effectiveness:
A peer review initiative
Royal Melbourne Hospital
Sir Charles Gairdner Hospital,
Nedlands, WA, Australia
Society for Clinical Research Sites
(SCRS)
Swinburne University, Melbourne
The Black Dog Institute, Sydney
The Brain and Mind Research
Institute, Sydney
The CADE clinic, Sydney

The Commonwealth, Scientific and
Industrial Research Organisation
(CSIRO)
The University of Queensland,
St Lucia
The University of Sydney, Sydney
The University of Western Australia,
Nedlands, WA, Aust
Trans-Tasman Radiation Oncology
Group (TROG)
University of Adelaide - Australian
Research Centre for Population
Oral Health
University of Queensland Diamantina
Institute, Woolloongabba
University of Western Sydney
Victorian Cooperative Oncology Group
(VCOG)
Walter and Eliza Hall Institute of
Medical Research (WEHI)

INTERNATIONAL COLLABORATIONS AND PARTNERSHIPS

A SNAPSHOT OF COLLABORATIONS AND
PARTNERSHIPS ACROSS THE WORLD

Active Life Sciences Inc, Santa
Barbara, California, USA - Dr Peter
Burks

Association of Clinical Research
Professionals (ACRP)

Autonomous University of Barcelona,
Department of Internal Medicine -
Professor Adolfo Diez-Perez

Bergen University College - Professor
Marit Graue, Norway

Cambridge University

Chulalongkorn University, Thailand

Dana Faber Cancer Institute, MA, USA

DiaBest Group - International Expert
on Diabetes Research Strategy

Diabetes Frail - UK - Professor Alan
Sinclair

Edward Hines Jr VA Hospital, Hines,
IL, USA

Expert Advisory Group to Steno-
REACH project established to develop
diabetes training programs for health
professionals in Malaysia

Guiyang Medical University, China

Harvard Medical School, MA, United
States

Home Dialysis Central , Medical
Education Institute, Wisconsin, USA

Hospital Santa Maria, Lisbon, Portugal

Infectious Diseases Society of
America (IDSA)

International Association for Dental
Research (IADR)

International Diabetes Federation
(IDF)

International Shoulder Arthroplasty
Consortium (ISAC)

J. Craig Vente Institute, Rockville, MA,
USA

Koc University, Turkey

Lausanne University Hospital

Lausanne University Hospital -
Professor Didier Hans - Center of Bone
Diseases , Lausanne, Switzerland

Lausanne University Hospital,
Switzerland - Professor Didier Hans
from the Centre of Bone Diseases

Loyola University Chicago, Maywood,
IL, USA

MAB: Renal Solutions Inc: Sorbent
Dialysis (RSI), Pittsburgh, USA

McGill University, Montreal, Quebec,
Canada

Médecins Sans Frontières (MSF)

Norwegian Institute of Public Health



Norwegian University of Science and Technology

Norwegian University of Science and Technology in Norway - Professor Otta Bjerkeset's research group at the Nord-Trøndelag Health Study (HUNT) Research Centre

Oxford University

Quanta Fluid Solutions, Warwickshire, UK

Shiraz University of Medical Sciences, Shiraz, Iran

Sigma Theta Tau International

Stanford University, CA, United States

Steno Diabetes Centre, Denmark

The HIV Medicine Association (HIVMA) - USA

Universidad Complutense, Madrid, Spain

Universidad de Antioquia, Medellín, Colombia

Universidade Estadual de Londrina, Paraná, Brazil

Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

Université Paris-Est, Paris, France

University College Cork

University of Barcelona

University of Barcelona, Spain - Professor Adolfo Diez Perez

University of Bergen, Norway

University of Cantabria, Santander, Spain

University of Eastern Finland

University of Eastern Finland - Dr Heli Koivumaa-Honkanen and Dr Risto Honkanen

University of Edinburgh - Professor Stuart Ralston

University of Glasgow, Glasgow, Scotland

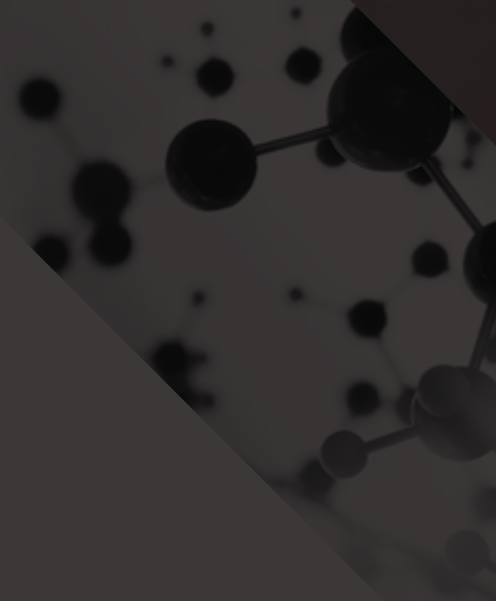
University of Manitoba, Canada - Professor Bill Leslie

University of Manitoba, Winnipeg, Canada

University of Toronto, ON, Canada

University of Zürich in Switzerland - The Anthropology Unit

World University Network INFLAME Consortium





SECTION 5

PUBLICATIONS AND
CONFERENCE PRESENTATIONS

PUBLICATIONS

1. Abdad MY, Cook A, Dyer J, Stenos J, Fenwick SG. Seroepidemiological study of outdoor recreationists' exposure to spotted fever group Rickettsia in Western Australia. *Am J Trop Med Hyg* 2014; 91: 584–588, 10.4269/ajtmh.14-0102 [doi].
2. Abdoli S, Ashktorab T, Ahmadi F, Parvizy S, Dunning T. Seeking new identity through the empowerment process. *Iran J Nurs Midwifery Res* 2014; 19: 145–151.
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5. Adler N, Weber H, Gunadasa I, Hughes A, Friedman N. Adherence to therapeutic guidelines for patients with community-acquired pneumonia in Australian hospitals. *Clin Med Insights Circulatory, Respir Pulm Med* 2014; 8: 17–20, 10.4137/CCRP.M.S17978 [doi].
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SNAPSHOT OF AUSTRALIAN CONFERENCE PRESENTATIONS

APS College of Counselling Psychologists Conference, Melbourne

- Burke LM, *Supporting clients with the grief of mental illness.*

Asia Pacific Paediatric Endocrine Society/Australasian Paediatric Endocrine Group Joint Meeting, Darwin

- Kwon D, *High incidence of vitamin D deficiency in 2-17 year olds presenting with fracture to a Melbourne suburban public hospital.*

Austin Health Research Week, e-poster session. Melbourne

- Hayley AC, *Excessive daytime sleepiness and falls among older women: Examination of a community-based sample.*

Australasian Chronobiology Society (ACS) 11th Annual Conference, Melbourne

- Hayley AC, *Excessive daytime sleepiness and falls among older adults: cross-sectional examination of a community-based sample.*

Australian Diabetes Society- Australian Diabetes Educator ASM, Melbourne

- Hart H, *Driving: accelerating the license review process.*

Australian and New Zealand Society of Nephrology Annual Scientific Meeting, Canberra

- See E, *Ultrafiltration rates in haemodialysis.*
- Chan S, *Factors Contributing to AKI in peri-operative orthopaedic patients.*

Australian and New Zealand Division of the IADR Conference, Brisbane

- Smith M, *Kinder Wide Smiles Project.*

BiomedLink Student Conference

- Hosking SM, *Knowledge change regarding osteoporosis prevention: translating recommended guidelines into user-friendly messages for the community.*
- Hyde NK, *Puffing during pregnancy: Are we compromising offspring bone development?*

Barwon Health Research Week, Geelong

- Brennan SL, *A social gradient exists for incident fractures of the major osteoporotic sites: Data from the Geelong Osteoporosis Study Fracture Grid.*
- Gliddon E, *Testing the waters or diving straight in? A preliminary analysis of discussion board engagement in the MoodSwings online intervention for bipolar disorder (www.moodswings.net.au).*
- Hyde NK, *Puffing during pregnancy; are we compromising offspring bone development?*

BiomedLink Student Conference

- Hosking SM, *Knowledge change regarding osteoporosis prevention: translating recommended guidelines into user-friendly messages for the community.*
- Hyde NK, *Puffing during pregnancy: Are we compromising offspring bone development?*

Biological Psychiatry Australia Conference, Melbourne

- Dean O, *Novel therapies for psychiatric disorders.*

BSW Allied Health Research and QI Symposium

- Aitken L, *Service improvement to Research: Advanced Practice Physiotherapy at Barwon Health and South West Healthcare.*

The Developmental Origins of Health and Disease Conference

- Peter Vuillermin, *The potential link between dietary fibre, the microbiome and its metabolites and asthma and allergic disease.*
- Kathleen McCloskey, *Maternal group B streptococcal colonisation is associated with aortic intima media thickness.*
- Hyde NK, *Gestational dietary mineral intake and crown-heel length in offspring.*
- Symeonides C, *Environmental Chemicals, DoHAD and Childhood Neurodevelopment.*

Home Therapies Conference, Melbourne

- Agar J, *Green at Home.*

International Society on Priorities in Health Care, Melbourne

- Brennan SL, *Acknowledging the social gradient of osteoporosis: a fundamental priority to address social inequity in fracture risk and related healthcare.*
- Holloway KL, *Prior fracture as a risk factor for future fracture in an Australian cohort.*
- Hosking SM, *Prioritizing community engagement in the development of an oversized jigsaw for the translation of osteoporosis prevention guidelines.*
- Pasco JA, *Is musculoskeletal deterioration among men an unrecognised consequence of the obesity epidemic?*
- Quirk SE, *Epidemiology of personality disorders and comorbidities: A review.*

National Occupational Therapy Conference, Melbourne

- Mew M, *Effectiveness of Grade 3 Allied Health Assistants completing Occupational Therapy Site Assessments.*
- Lyons N, *Expert Panel: An innovative model which aims to add value to the Student Program while increasing staff engagement during student fieldwork.*
- Lyons N, *Clinical placements - more than just leanings.*
- Lyons N, *Clinical Placement at a large regional public health network - the other story.*
- Verikios D, *Being a Research Active Occupational Therapy Service: Outcomes and Opportunities.*
- Verikios D, *Achieving occupational goals with the TAPit®: Three case studies.*
- O'Shanassy E, *Effectiveness of Occupational Therapy Student Volunteers to assist with Breakfast Groups.*
- Walsh M, *Graded training programs for OT AHA (Student) to experienced Grade 1.*

PHAA Conference, Perth

- Smith M, *Minimal Intervention Dentistry for Kindergarten Children in Geelong and Colac-Otway Region.*

Royal Children's Hospital, Melbourne

- Christos Symeonides, *Understanding environmental factors in child development and behaviour: Are modern industrial chemicals harming developing brains?*

Sharing advanced practice in Allied Health forum

- Napper M, *Physiotherapist led Paediatric fracture clinic, sharing the load of outpatient fracture care.*

SMHR 2014: The Society for Mental Health Research, Adelaide

- Dipnall J, *Diet and the Depressed Diabetic: New insights from post-hoc analyses of the US National Health and Nutrition Examination Study.*
- Quirk S, *The prevalence of DSM- Personality Disorders in Australian women.*
- Rauma PH, *Major depressive disorder, use of antidepressants and bone mineral density (BMD).*
- Berk M, *Nocebo effects in the treatment of major depression: results from an individual study participant level meta-analysis of the placebo arm of duloxetine clinical trials.*
- Gliddon E, *Testing the waters or diving straight in? A preliminary analysis of discussion board engagement in the MoodSwings online intervention for bipolar disorder (www.moodswings.net.au).*
- Dodd S, *Nocebo effects in the treatment of major depression: results from an individual study participant level meta-analysis of the placebo arm of duloxetine clinical trials.*
- Skvarc D, *PANACEA: the Post Anaesthesia N-Acetyl-Cysteine evaluation trial.*
- Toben C, *Neuroprotection and neuroregeneration mechanisms in mental health disorders.*
- Jacka FN, *Diet quality and mental health across the lifespan: updates and new directions.*
- Jacka FN, *Diet quality is associated with hippocampal volume in humans.*
- Jacka F, *What are the biological pathways linking diet and mental health?*
- Jacka F, *How to survive in research. Early Career Researcher Workshop.*

Victorian Integrated Cancer Services Conference Melbourne

- David Ashley, *Using big data and machine-learning predictions for cancer quality and care.*
- Mukaro VRS, *The Evaluation of Cancer Outcomes Barwon South Western Registry- from concept to creation.*
- Matheson LM, *Presentation to the emergency department prior to cancer diagnosis: a regional perspective.*
- GA Pitson, *The Evaluation of Cancer Outcomes Barwon South Western Registry- insights into regional patterns of care.*

Victorian State Occupational Therapy Conference, Melbourne

- Ingwersen K, *Exploring Alternative Models for Undergraduate OT Student Supervision: A Discussion of Applied Methodology.*
- Hibbard S, *Practice Integration: physical health acute care occupational therapists refresh their mental health skills through blended learning.*
- Heywood A, *The use of pressure mapping for staff education in an inpatient rehabilitation setting.*
- Verikios D, *Enhancing the patient journey using innovative technology- the TAPit®.*
- Moller J, *Development of a Sexual Health Module for Offenders with Cognitive Impairment.*
- Rowan S, *100 per cent staff participation in Occupational Therapy student education: Student education models.*

Western Alliance 2nd Annual Symposium Ballarat

- Mukaro VRS, *The Evaluation of Cancer Outcomes Barwon South Western Registry- from concept to creation.*
- Matheson LM, *Presentation to the emergency department prior to cancer diagnosis: a regional perspective.*

3RD Annual NHMRC Symposium on Research Translation, Melbourne

- Brennan SL, *An oversized jigsaw: translating recommendations for the prevention of osteoporosis.*
- Oldenburg B, *A call to action: Improving Australia's health through research focused on "How to implement" what we already know.*
- Pasco JA, *A conduit between epidemiological research and regional health policy.*

10th International IDF-WPR Congress, Melbourne

- Hart H, *Driving: accelerating the license review process.*

49th Australian Psychological Society Annual Conference, Hobart

- Gliddon E, *Lurking and posting in the MoodSwings online discussion boards for bipolar disorder. Lauder S, MoodSwings 2.0: Evaluating an online self-help intervention for bipolar disorder (www.moodswings.net.au).*

SNAPSHOT OF INTERNATIONAL CONFERENCE PRESENTATIONS

ADC, Seattle USA

- Agar J, *Environmental challenges ahead: views, visions and vistas in dialysis.*

American Annual Dialysis Conference, New Orleans, USA

- Agar J, *HDF trumps HD.*
- Agar J, *Prescribing for home haemodialysis.*
- Agar J, *Volume management: A central component of Dialysis Care.*
- Agar J, *Using the Internet to engage and educate patients.*
- Agar J, *New Technology Update.*

American Society for Bone and Mineral Research (ASBMR), Houston, Texas, US

- Brennan SL, *Sex-specific associations between income and incident fractures at major osteoporotic sites: A population-based analysis.*
- Holloway KL, *FRAX (Aus) as a predictor of falls risk in men.*
- Pasco JA, *Do strong women have strong bones?*
- Rauma P, *The association between use of antidepressants and bone quality using Quantitative Ultrasound.*

American Society of Clinical Psychopharmacology Annual Meeting, Florida, USA

- Cosgrove V, *MoodSwings 2.0 (www.moodswings.net.au): An online intervention for bipolar disorder.*

American Society of Nephrology, San Diego, USA

- See E, *Ultrafiltration rates in haemodialysis.*
- Ying T, *abstract presentation.*

ANZBMS, Queenstown, New Zealand

- Brennan SL, *Social disadvantage and incident fractures of the major osteoporotic sites: Data from the Geelong Osteoporosis Study Fracture Grid.*
- Holloway KL, *FRAX (Aus) as a predictor of falls risk in men and women.*
- Hosking SM, *Knowledge change regarding osteoporosis prevention: translating recommended guidelines into user-friendly messages for the community.*

- Hyde NK, *Puffing during pregnancy; are we compromising offspring bone development?*
- Pasco JA, *Appendicular lean mass, BMD and fracture risk.*

APC/Dept Neuroscience and Anatomy Seminar, University College Cork, Cork, Ireland

- Jacka F, *Diet quality and mental health across the lifespan: updates and new directions.*

Asian Association of Neuropsychopharmacology, Hong Kong

- Berk M, *Mood disorder and inflammatory processes.*

Association for Death Education and Counselling (ADEC) conference, San Antonio, TX

- Burke LM, *The culture of crazy: Reflections on loss and grief in mental illness.*

Canadian Academy of Psychiatric Epidemiology, Canada

- Quirk S, *The prevalence of DSM-5 personality disorders in Australian women.*

The European Asthma, Allergy and Clinical Immunology Conference, Barcelona

- John Molloy, *The relationship between maternal and infant vitamin D status and IgE mediated food allergy.*

European Sleep Research Society (ESRS) 22nd Congress, Tallinn, Estonia

- Hayley A, *Excessive Daytime Sleepiness and Metabolic Syndrome: A population based study of women.*

IADR Conference, Cape Town, South Africa

- Smith M, *Gross dental decay treatment in young children under general anaesthetic.*

IAPD Congress, Glasgow, UK

- Mason A, *Kinder Wide Smiles.*

I Jornada Internacional de Psicogeriatría, Medicina Picosomática y Psiquiatría de Enlace, Pontificia Universidad Javeriana, Bogotá, Colombia.

- Dodd S, *Re-conceptualising major psychosis and mood disorders as staged illnesses: towards change in clinical services and treatment.*

International Society of Haemodialysis, Kuala Lumpur

- Agar J, *Green Dialysis: Environmental implications of dialysis therapies.*

IOF Regionals 5th Asia-Pacific Osteoporosis Meeting, Taipei, Taiwan

- Brennan SL, *Associations between social disadvantage and fractures at all skeletal sites: Data from the Geelong Osteoporosis Study Fracture Grid.*
- Holloway KL, *Non-hip and non-vertebral fractures: the neglected fracture sites.*
- Pasco JA, *Appendicular lean mass and the risk for hip and upper limb fractures.*

McKenzie Institute, New Zealand

- Cheel M, *To flex or not to flex.*
- Schoch P, *The Spine. Tackling the tricky, nasty and unexpected: Cervical spine tumor presenting as unilateral upper limb symptoms.*
- Schoch P, *The Spine. Tackling the tricky, nasty and unexpected: Triaging the Nasty. MDT in the Emergency Department and Orthopaedic Clinics.*

Mental Health Association of Hong Kong, 60th Anniversary Symposium, Hong Kong

- Berk M, *Prevention of common mental disorders – the way forward for prevention research and implementation.*
- Berk M, *Prevention of Depression – Lifestyle Management of Unipolar Depression.*

Monkwearmouth Hospital, London

- Jacka F, *Diet and the common mental disorders: mechanisms of action and new opportunities for prevention and treatment.*

RSA, Auckland

- Agar J, *Green Dialysis.*
- Agar J, *Using the internet.*

St. Nicholas Hospital, London, September 2014.

- Jacka F, *Can we prevent depression by improving diet?*

University of Valencia, Valencia, Spain

- Jacka F, *Diet quality and mental health across the lifespan: updates and new directions.*

US Home Hemodialysis Symposium, New Orleans USA

- Agar J, *Update – Home haemodialysis in Australia and New Zealand.*

Vrije Universiteit Amsterdam, Netherlands

- Jacka F, *How does diet exert an influence on mental health?*

XVI World Congress of Psychiatry (WPA). Madrid, Spain

- Berk M, *The evolution continues? CANMAT clinical guidelines for bipolar disorders 2013.*
- Berk M, *Clinical assessment of neurocognition – the basis for improved clinical outcomes.*
- Berk M, *Novel therapies.*
- Jacka F, *Nutritional Psychiatry Research: A topic comes of age and an international society is established.*
- Jacka F, *Diet quality and mental health across the lifespan.*
- Dean O, *New therapeutics targeting inflammation in psychiatry.*

4th Biennial Schizophrenia International Research Conference, Florence, Italy

- Dodd S, *Staging and Neuroprotection.*

The 8th World Congress on the Promotion of Mental Health and the Prevention of Mental Disorders, London, UK,

- Jacka F, *Taking a population health approach to the primary prevention of mental disorders.*

The 10th International Conference on Grief and Bereavement in Contemporary Society (ICGB), Hong Kong, China

- Burke L, *The relationship between age of marriage and age of death in an Australian community-based sample.*

23rd European Congress of Psychiatry, Vienna, Austria

- Dodd S, *Staging should be applied to major psychosis and mood disorders.*
- Dodd S, *Re-conceptualising major psychosis and mood disorders as staged illnesses: towards change in clinical services and treatment.*
- Conus P, *Staging applied to major psychotic and mood disorders: do we really have the tools?*

53rd American College of Neuropsychopharmacology Conference, Arizona, USA

- Cosgrove V, *MoodSwings 2.0 (www.moodswings.net.au): An online intervention for bipolar disorder – Report from the front.*



OUR VALUES

RESPECT

COMPASSION

COMMITMENT

ACCOUNTABILITY

INNOVATION

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