

Research Report

20
18



Barwon
Health

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Foreword

Welcome to the 2018 Research Report,
Barwon Health's fourth annual edition.

I'm delighted to use this Research Report as an opportunity to give credit where it is due. Coinciding with Research Week, this is a time for us to highlight and praise those who have contributed to the work undertaken by our research community, with the noble goal to always endeavour towards improving health outcomes.

An essential element of Barwon Health's research output comes from conducting clinical trials, which draw upon hundreds of participants, especially in cardiology, cancer services, infectious diseases, paediatrics, endocrinology, and Deakin University's IMPACT studies, which conduct world-first investigator-initiated clinical trials. Knowing how much effort goes into recruitment makes you appreciate this important work even more. We must acknowledge the achievements of the Haematology and Oncology Trials Team (HOTT), which has recruited either the first patient globally or within Australia on a number of studies, and the Clinical Trial Unit (CTU), which made Barwon Health the first Australian site to recruit a participant for the C.Diff vaccine study (CLOVER).

The brilliant work conducted through Barwon Health's many research programs would not be possible without the Research Directorate working behind the scenes to provide leadership, support, advice and guidance. Each year, this group of professionals ensures the necessary administration and organisation takes place to bring out the best in our staff. From ethics and integrity to occupational health and safety and risk management, there are so many factors that come together for the final report to reach publication stage. Special thanks must go to our Chief Medical Officer Associate Professor Sean Jespersen, Research

Ethics, Governance & Integrity (REGI) Unit Manager Dr Giuliana Fuscaldo, Research Governance Officer Lisa Fry, Research Ethics Officer Richard Larsen, Senior Administration Officer Kristin Wallis, Biostatistician Dr StellaMay Gwini, the Research Support Unit, and finally Research Administration Co-ordinator Donna Killeen, who diligently compiled this Research Report.

Research Week promises to be another exciting opportunity for the community to engage with our research through a carefully planned schedule of events. The week showcases our research activities and includes guest lectures by prominent Geelong researchers, various free presentations and education sessions aimed at early career researchers. The presentations this year will enlighten and inform those in attendance, including interactive workshops on social media for academics and research grants, a fascinating opening session by Deakin's Professor Saeid Navahandi on robotics in medicine and the Geelong Centre for Emerging Infectious Diseases (GCEID) One Health Day, with presentations and displays on zoonosis. The popular poster presentation and Audience Choice Award will again be hotly contested, with bragging rights and prize money up for grabs. Always a highlight of the week, the prestigious Barry Jones medal will acknowledge the exceptional work of individuals who have contributed to the research community, while the Harrison Lecture for Innovation honours the legacy of James Harrison and looks at the region's modern, leading edge innovation driving the new Geelong economy. Rounding out the week, the divisive Barwon Health vs Deakin University ethics debate, tackling the topic that sport is bad for your health, while Professor Trisha Dunning will also present her Annual World Diabetes Day lecture on Disability, Death – Diabetes in 3D.

It takes an incredible amount of effort and energy to plan Research Week, especially when members of the Operations and Executive Committees are already working so hard with their other duties throughout the year. I commend their dedication to this project and congratulate them in advance on what is always an impressive week-long platform to present the research achievements of Barwon Health.

As a regional hospital, we are so fortunate to have world-leading experts contributing to research results that make international headlines. These academics and clinicians are a crucial driver of improved health outcomes for not just our local community, but the wider population. I would like to take this opportunity to congratulate some notable members of our research staff who have been recognised for significant work in their fields over the past year.

Professor David Watters has been named an Alfred Deakin Professor, acknowledging his sustained, high level contributions to research at Deakin. This is the highest honour bestowed to members of the academic staff, and not his only recognition in the past 12 months. In June, Professor Watters became a member of the Order of Australia, recognising his significant service to medicine and medical education in endocrine and colorectal surgery.

Since the previous Research Report was published, Professor Trisha Dunning was honoured as Educator of the Year in the "Top Women of 2017" edition of International Top 100 Magazine. This recognition was followed by an induction into the Sigma Theta Tau International Nurses Society Researcher Hall of Fame. Her significant and sustained international recognition was praised for making an impact on her profession through research, and I commend her for adding such prestige to the work she carries out with Barwon Health.

Congratulations to Mark Kotowicz, who was appointed as a joint Barwon Health and Deakin University Professor this year, resulting from his work in the fields of endocrinology and diabetes. Our partnership with Deakin University is fostered through these types of appointments and we are grateful to have staff willing to contribute to both Deakin and Barwon Health for the best possible outcomes.

The story of research can often be told in numbers, so here are a few figures to sum up the productive year we've had at Barwon Health – a testament to the hard work and skilled clinicians we're fortunate to work with and alongside every day:

- 485 peer-reviewed journal article publications;
- 563 research projects; and
- Grants funding over \$43 million for research project active during 2017/2018

As always, Barwon Health thanks you for your continued support in this journey of researching to improve the health of our community.

Ruth Salom



Professor Ruth Salom
Chief Executive
Barwon Health



SECTION

1

Overview



Academic Strategic Plan

The purpose of the Academic Strategic Plan is:

- To enhance the use of inquiry, knowledge and evidence in the pursuit of academic excellence and quality care.
- To position Barwon Health for future national and international recognition as a premier Academic Health Service and Academic Health Science Centre partner.

Vision

Barwon Health has an embedded culture of inquiry, translated to world class evidence-based practice and innovative person-centred care

Mission

To support our workforce to engage in life-long learning and lead in health research and translation that enhance health outcomes

Strategic Themes

1. Leadership

Develop our academic culture to position Barwon Health as a premier provider of care, education and research

2. Innovation

Promote and nurture innovation through and within academic services to advance excellence in evidence-based healthcare

3. Knowledge Exchange and Integration

Integrate our academic services to accelerate the translation and application of knowledge in to healthcare

4. Real World Solutions

Identify facilitators and challenges to develop solutions for healthcare and health system problems in our region, our nation and globally

Strategic Objectives/Initiatives

- 1.1** Foster collaboration amongst academic and clinical services to embed academic activities in service delivery
- 1.2** Develop inter-professional forums for learning and developing clinical excellence
- 1.3** Engage consumers as active participants in research, education, care planning and service delivery
- 1.4** Share best practice with other centres
- 1.5** Promote our research and evidence-based practice profile
- 1.6** Target appointments to clinical research priorities and leadership in best practice learning environments
- 2.1** Promote key scientific contributions and communications
- 2.2** Disseminate and promote publications that changed policy or practice
- 2.3** Engage with industry, Higher Education Providers, Research Institutes and other Health Services as innovation partners
- 2.4** Support growth in clinical trials, health system and health services research
- 2.5** Leverage industry and philanthropic funding to support early development projects and leading edge research
- 2.6** Facilitate and enhance research and teaching at point of care
- 2.7** Facilitate access to up to date clinical information at point of care
- 3.1** Strengthen research and teaching capacity and capability of health professional staff
- 3.2** Establish and embed the role of inquiry, research, education and evidence in enhancing quality of care
- 3.3** Involve research and translation leaders in education and training
- 3.4** Embed library professional services in the knowledge exchange lifecycle
- 3.5** Establish teaching, training and research agenda for each Clinical Directorate
- 3.6** Develop evaluation capacity and capability
- 3.7** Set up automated environmental scanning to capture innovations and best practice approaches in the research support setting
- 4.1** Implement, evaluate and undertake research to support the Health Literacy Strategy
- 4.2** Collaborate with regional, national and global partners in data sharing and management, research, education and training initiatives
- 4.3** Engage communities and consumers in identification of health priorities for research and , selection of patient reported outcomes measures (PROMS)
- 4.4** Support cross-disciplinary and interdisciplinary approaches to health care challenges
- 4.5** Develop Clinical Research and Teaching Fellowship program addressing local and global clinical problems
- 4.6** Support whole of organisation initiatives to capture and interrogate health information and data and facilitate data linkages with other agencies

The Barwon Health Foundation and Future Fund

The Barwon Health Foundation's Future Fund is proud to act as a conduit in the support of the marvellous endeavours of our outstanding research teams.

So many in our community were previously oblivious to the incredible research being conducted 'on our doorstep' and the Foundation is delighted that many now recognise its importance - not only for the improvement to patient care, but also for the advancement of Geelong.

The community of Geelong and the surrounding region has a long history of looking after its own. In 1848, community leaders understood the value of investing in the health of the region and launched the first Hospital Appeal. The Geelong Infirmary and Benevolent Society (now University Hospital Geelong) was opened four years later.

Ever since, community support has played a key role in the building of the quality health service we have 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. In addition to providing much needed equipment to various hospital services, the Foundation's current major appeal is to raise funds for a new children's rehabilitation facility at the McKellar Centre.

Additionally, the Barwon Health Foundation works with other philanthropic institutions to seek grant applications for clinical and research equipment and resources.

The Barwon Health Foundation Future Fund aims to encourage bequests and major gifts, operating with the key purpose of building an endowment fund for the next generation, with a focus on ensuring that clinical education and research flourish culturally and financially.

Of course, the Future Fund also recognises immediate needs and last year established the Research Leadership Circle with the aim of providing additional scholarship support for our research teams. An enthusiastically supportive response from leaders within our community has seen the Foundation in a position to offer four ongoing PhD Scholarships, and the Future Fund intends to build on this to offer more scholarships in the future.

The Research Leadership Circle has now been expanded to allow those with specific medical research interests to direct their contribution towards areas offering clinical trials within our hospital.

The Foundation is most grateful for the outstanding support it receives from our Research teams.

A philanthropic gift or a bequest to the Barwon Health Foundation Future Fund will leave a legacy that will improve the health and wellbeing of the people in our community, and potentially across the globe, for years to come. Executive Director of the Foundation, Jill Moodie, and Future Fund Development Manager, Francis Trainor, would be delighted to hear from anyone who may consider offering some support or would like to receive a copy of our Research Prospectus.

Contact details

Barwon Health Foundation
283 Ryrie Street, Geelong Victoria 3220
Telephone: 03 4215 8900
www.barwonhealthfoundation.org.au

A close-up photograph of a microscope, showing the eyepiece, objective lenses, and stage. The background is softly blurred, showing a laptop keyboard and a desk. A large, semi-transparent red circle is overlaid on the center of the image, containing white text.

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

St Mary's Library and Research Centre

Rob Penfold, Director Library And Literacy.

Library, Research and Consumer Engagement activities at St Mary's Library and Literacy.

Publications

Every year the Library compiles a list of research articles published by Barwon Health staff for the Research Report. In 2018, the number was 485, compared to 480 in 2017 and 442 in 2016, so an upward trend is evident. If you are going to be involved in a systematic review, you may be interested in Covidence, which is software to make the whole process easier. Contact the Library for more details.

Ease of access

New steps have been added to make it easier to use the Library's online resources. For example, when you use a Library online resource on the Barwon Health network, there is now no need to login to anything. Home access has also been simplified. While you will need to login using your Library account details, we have configured Clinicians Health Channel (CHC) and Library online resources alike to be accessible via your Library login, leaving one less login to remember. To access CHC resources at home via your library login, just google search "Barwon Health Library" and then use the A – Z of databases to find your resource. Finally, there is now a search box on the Library home page that allows you to quickly locate ebooks, ejournals, search UpToDate, AMH and more.

New resources

For better access to evidence, the Library now offers TRIP Pro and Cochrane Clinical Answers. Sometimes there is too much information when all you want is a good summary of a clinical topic. Such resources are called Point of Care resources and now, in addition to UpToDate (Medicine), the Library provides access

to Nursing Advisor (Nursing) and the Rehabilitation Reference Centre (Allied Health). Just remember to look at Prompt first for any official Barwon Health procedures. Additionally, the Library now also offers Nursing Procedures. We also remind you that Google Scholar can link to library ejournals (visit the DidYouKnow tab for instructions) and the UpToDate resource also links to library ejournals via its references at the end of each topic.

Usage

In 2017, the Library home page was accessed 62,963 times (approximately 1200 views per week) and UpToDate 97,102 times (approximately 1900 times per week), while 43,925 full text journal articles and 11,225 ebook chapters were accessed online.

Training

The Library offers one-on-one or group training in searching the literature for research. We will also do searches for you on request. A 10-session Academic Skills Program was run at the McKellar Centre this year.

Consumer engagement

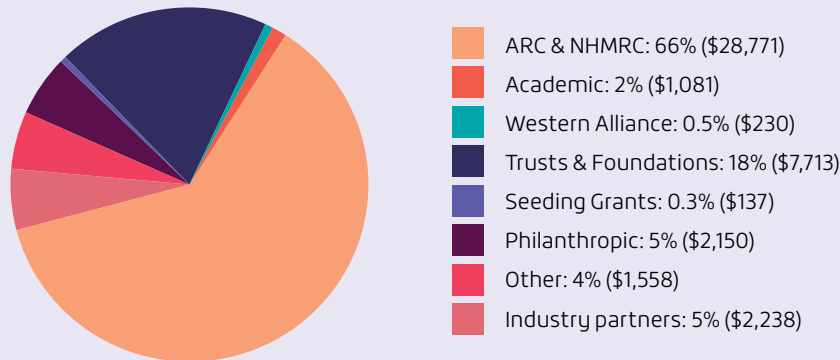
Rebecca Kress has joined the team as the new Consumer Engagement Manager. She is responsible for the WISE (Written Information Simply Explained) program and the consumer representative program. The Consumer Health page on the Library site contains a number of consumer health resources.

Rob Penfold

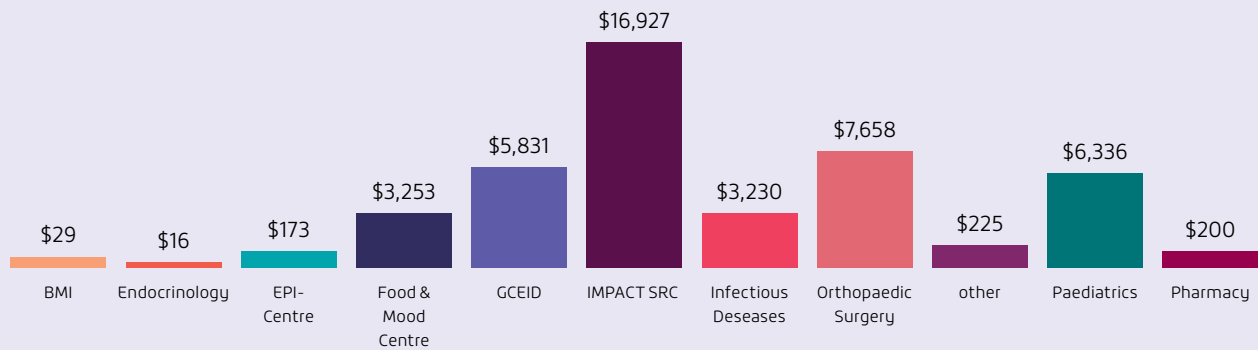
Director Library and Literacy
St Mary's Library and Research Centre.

Grants Received

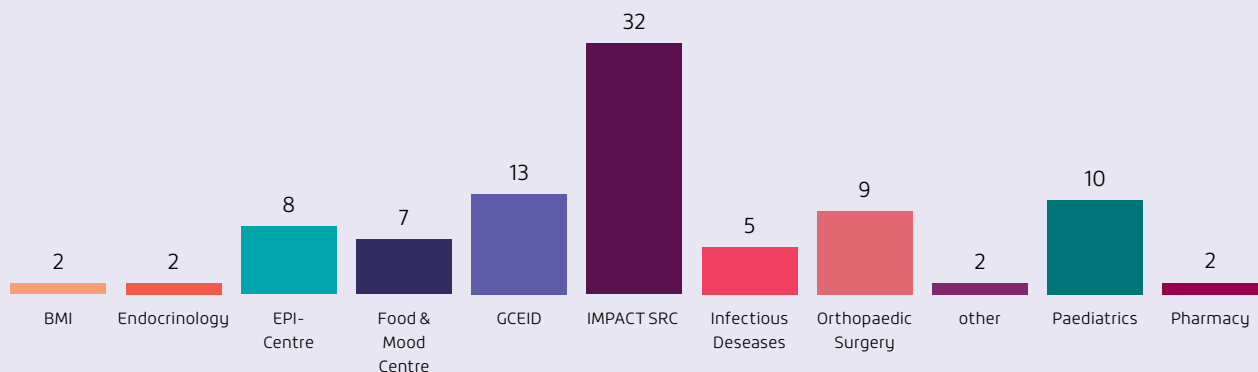
Distribution of funding by sources for all projects active in 2017/2018

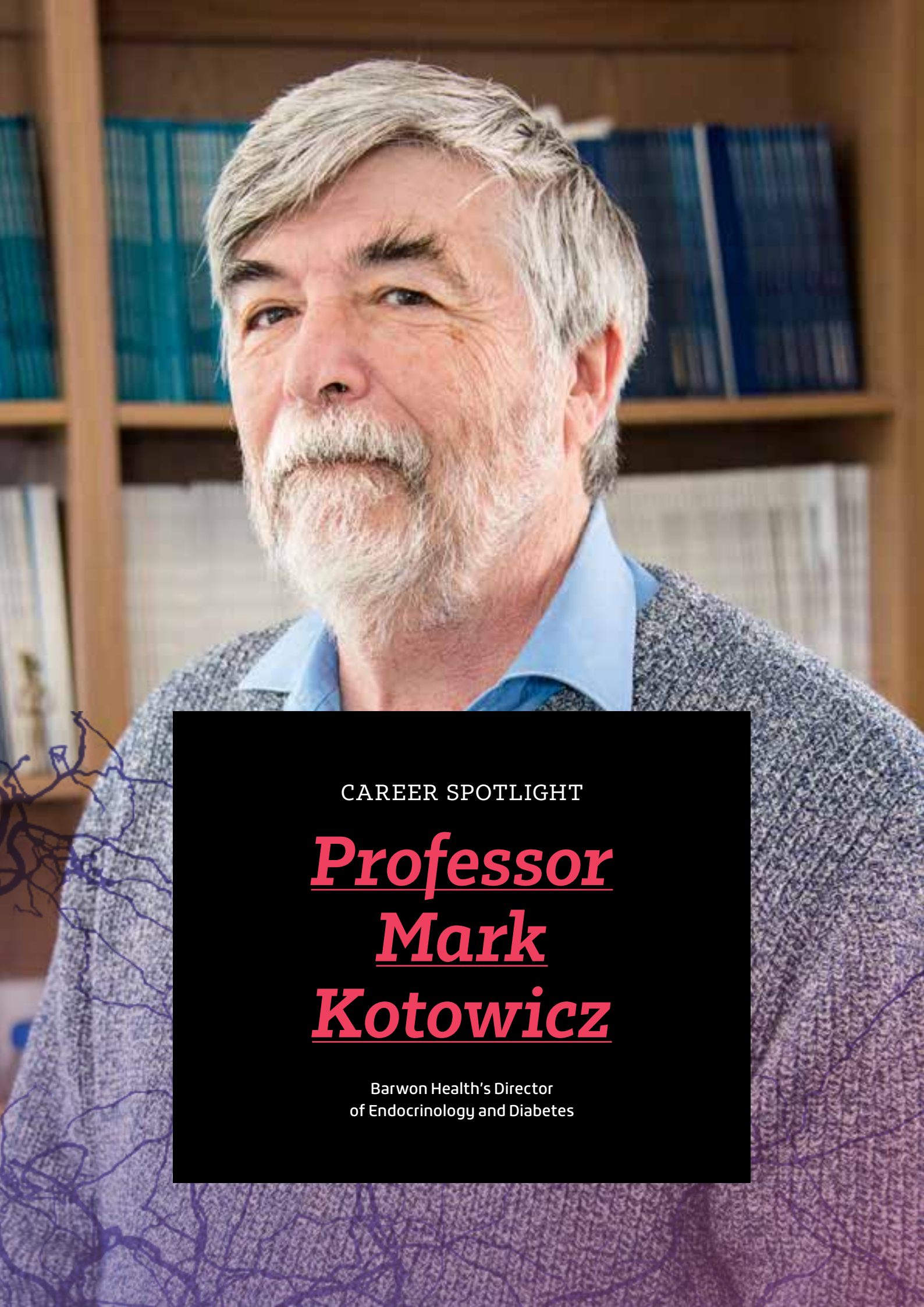


Distribution of funding (in \$'000) by department for all projects active in 2017/2018



Number of funded projects by department in 2017/2018





CAREER SPOTLIGHT

Professor
Mark
Kotowicz

Barwon Health's Director
of Endocrinology and Diabetes

Interview with the Director of Endocrinology and Diabetes Professor Mark Kotowicz

Professor Mark Kotowicz MBBS, FRACP is a highly regarded Endocrinologist and the Director of the Department of Endocrinology and Diabetes at University Hospital Geelong. Professor Kotowicz has more than four decades of experience in endocrinology, with special interest and expertise in bone disease and calcium disorders. Associate Professor Kotowicz attained the coveted title of Professor earlier this year and serves as an academic leader at Deakin University in addition to his busy clinical role. His research highlights include implementing the Geelong Osteoporosis Study, which has been ongoing since 1993. With more than 200 publications, he has attained international recognition for his work on osteoporosis treatment, Paget's disease of bone and diabetes mellitus.

Early interest in research

Professor Kotowicz describes himself as a late starter to research. At the end of his clinical training, he was involved in research in diabetes, but had no enthusiasm for pursuing research. However, he then came to know Dr Lawrence (Larry) Riggs, a pre-eminent researcher at the Mayo Clinic working in osteoporosis. Professor Kotowicz took the role of Senior Research Fellow in the Mayo Clinic's Osteoporosis Research Unit, working under the direction of Dr Riggs and Joseph Melton III. He found this experience so inspiring that it shaped his life-long research interests.

Professor Kotowicz attributes the Mayo Clinic's success to their ability to integrate basic science research with clinical and epidemiological research. This integration allowed laboratory-based findings to be tested in the clinic and in epidemiological studies. Generating a hypothesis from epidemiological research or clinical observations could in turn be tested in the laboratory.

Research highlights

The discovery of a new type of toxicity associated with vitamin D was a highlight for Professor Kotowicz and his team, which had learned from the Geelong Osteoporosis study that seasonal changes in vitamin D are associated with falls and fractures. Professor Kotowicz's team hypothesised that rates of fragility fractures in older women at high risk could be reduced if their vitamin D intake over winter was maintained to levels at summer. This hypothesis was tested through a placebo

controlled randomised clinical trial where women received either a single oral dose of cholecalciferol 500 000 IU, or matched placebo, each year for three to five years, in autumn or winter. Surprisingly, and contrary to their hypothesis, the team found women receiving annual high-dose oral cholecalciferol experienced 15 per cent more falls and 26 per cent more fractures than the placebo group.

Previously, hypercalcaemia was the only toxicity associated with vitamin D and the existing data showed a 500,000 IU single dose did not cause hypercalcaemia. Professor Kotowicz and his team described a new vitamin D related toxicity for the first time, which was been confirmed in subsequent studies.

Future research directions

Professor Kotowicz sees osteoporosis research expanding into ageing and musculoskeletal deterioration:

"We are starting to recognise that deterioration in skeletal muscle is closely related to deterioration of the skeleton itself. At the basic science level, we are recognising that some ageing cells produce molecules that adversely affect the function of surrounding cells and there is already some preliminary laboratory data indicating that if you block production or activity of these molecules in animals, you can prevent skeletal ageing."

He foresees future research in this field focused on the control of ageing cells and exploring whether it is possible to limit the damage caused by those abnormal cells in a safe manner.

Advice for new researchers

With the hindsight of his outstanding career Professor Kotowicz offers the following advice to Barwon Health staff interested in research:

"It is never too late to start. Find a good mentor working in a project that you are really interested in."

SECTION

2

Research Directorate And
Barwon Health Human
Research Ethics
Committee (HREC)



A close-up photograph of a scientist in a laboratory. The scientist is wearing a white lab coat, blue nitrile gloves, and a clear face shield. They are holding a wooden tray with several compartments, each containing a yellowish substance. The background is slightly blurred, showing laboratory equipment. The overall scene is brightly lit, typical of a clinical or research environment.

Barwon
Health Research
Directorate

“Advances in science and medical research and public health policies have meant that life expectancy for Australians is one of the highest in the world.”

Julie Bishop

Research in context

The purpose of health and medical research is to deliver better health outcomes for all.

Acknowledging that health research is both an opportunity and a responsibility, Barwon Health is committed to developing a vibrant culture of education, training and research for all staff. Barwon Health fosters clinical excellence, effective leadership and a solid foundation of continuous learning and scientific research, underpinned by our role as a teaching hospital. Our mission is to excel in delivering efficient integrated care, education and research to advance health and wellbeing for all. This explicit commitment to research is reiterated in Barwon Health's strategic plan and strategic priorities, which promote research into integrated health with a focus on chronic illness management, mental health, child health and early development, infectious diseases, and end-of-life care. Working with a regional network and our partners and collaborators, Barwon Health has built a long and enviable record of achievements in health and medical research, and this year is no exception.

The 2017/2018 Barwon Health Research Report summarises the range of research activities conducted under Barwon Health auspices, including laboratory research, public health, epidemiological studies, health services research, clinical research involving patients and consumers, and their data or biological samples, as well as a large number of clinical trials.

Research highlights

Barwon Health is engaged in a number of research collaborations undertaking world-class research of international significance to improve the health of individuals and communities. These include:

The Epi-Centre for Healthy Ageing, undertaking the Geelong Osteoporosis Study (GOS), to understand the epidemiology of osteoporosis and identify risk factors for fracture.

The Geelong Centre for Emerging Infectious Diseases (GCEID) a collaborative, multidisciplinary research partnership between Deakin University, Barwon Health and CSIRO's Australian Animal Health Laboratory (AAHL). GCEID is focused on understanding mitigating the risks and reducing the impact caused by emerging infectious diseases on human, livestock, pet and wildlife health.

The Centre for Innovation in Mental and Physical Health and Clinical Treatment Strategic Research (IMPACT), a multi-disciplinary collaboration that conducts clinical trials, epidemiological studies and laboratory-based research aimed at developing novel therapies for the treatment of major psychiatric disorders.

Barwon Health Research Community

The Research Community within Barwon Health is expanding and includes a diverse range of research areas and groups from laboratory-based research to clinical applications. Increasingly, the research community is focused on the translation of research into practice and supporting the delivery of best practice and evidence-based healthcare. Several units at Barwon Health provide support and education for research engagement, including the Clinical Education and Training Unit, Library Services, and the Research Directorate. Barwon Health provides support for diverse research activities at all stages, from the beginning of an idea through to the implementation of a peer-reviewed and ethically approved research project.

The Research Directorate

Barwon Health's vibrant research activity is supported by the Research Directorate under the leadership of the Chief Medical Officer, Associate Professor Sean Jespersen.

The Barwon Health Research Directorate is responsible for the oversight and governance of all research activities conducted under the auspices of Barwon Health. It works to build research capacity and collaborations across the south-west region and with national peers.

The Research Directorate is comprised of two units:

The Research Ethics Governance and Integrity Unit (REGI)

REGI manages all research proposals and ensures all research activities undertaken by Barwon Health comply with national and international guidelines and legislation, exemplifying the highest standards of ethics and research practice. REGI also provides advice and support for Barwon Health staff and associates undertaking research.

The Research Support Unit includes a team of medical scientists that provide laboratory science management and clinical trial support. This team works to facilitate the translation of clinical needs into research investigations and research outcomes, while providing support for clinical staff in research design, data analysis and research publications.

The Research Directorate Staff

Associate Professor Sean Jespersen, Chief Medical Officer

Associate Professor Sean Jespersen provides leadership in mentoring and fostering research across the organisation, as well as building research capacity, ethical oversight, governance and risk management associated with the research activities of Barwon Health and its partners. He oversees the work of the Research Directorate, its two units and the research directorates' 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.

Ms Donna Killeen, Research Administration Co-ordinator

Donna provides administrative assistance to the Research Directorate and coordinates the compilation and publication of Barwon Health Research Report, and the efficient organisation of the Annual Barwon Health and Deakin University Research Week celebrations.

The REGI Team

Dr Giuliana Fuscaldo, Manager, Research Ethics, Governance & Integrity (REGI) Unit

Dr Giuliana Fuscaldo and her team provide 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 subcommittee, the Research Review Committee. Giuliana also provides education and undertakes research-focused bioethics and ethical issues that arise in clinical practice.

Ms Lisa Fry, Research Governance Officer

One of REGI's purposes is to facilitate collaborative research between Barwon Health and pharmaceutical companies, healthcare institutions and universities. Lisa's role is to oversee these research collaborations and to ensure Barwon Health patients and consumers are invited to participate in research projects that reflect best practice benchmarks and guidelines.

Mr Richard Larsen, Research Ethics Officer

Richard's role is to support research conducted within the auspices of Barwon Health and to ensure research exemplifies rigorous standards of ethics and governance. Richard oversees the work of the Barwon Health Human Research Committee and the training and support of its members.

Ms Kristin Wallis, Senior Administration Officer

Kristin is responsible for maintaining the day to day administrative tasks associated with managing and overseeing more than 600 active research projects per year. Kristin is also developing the process for auditing HREC approved projects.

Dr StellaMay Gwini, Biostatistician

StellaMay is an experienced statistician who provides support and advice to clinicians and researchers on research design and data analysis. She also assists with the preparation of research manuscripts.

The Research Support Unit

Dr Jason Hodge, Laboratory Manager/Senior Scientist

Jason is responsible for the efficient and compliant running of the Geelong Centre for Emerging Infectious Diseases (GCEID) Laboratory and undertakes research in the field of bone cell biology.

Dr Fiona Collier, Senior Medical Scientist

Fiona heads a team of research scientists in the Barwon Health laboratories, based at GCEID. She and her team have expertise in molecular biology, cell culture, flow cytometry, and microbiome studies. They support a range of research programs and departments within University Hospital Geelong.

Ms Danielle Kennedy, Medical Scientist

Danielle is responsible for the processing and maintenance of more than 120,000 bio samples for the Barwon Infant Study and the biobank database. Danielle also works to support a range of Barwon Health research programs and studies.

Ms Minh Bui, Medical Scientist

Minh contributes to the laboratory work associated with the Barwon Infant Study; completing the DNA extraction from more than 2000 bio samples for microbiome research.



Barwon Health Human Research Ethics Committee (HREC)

HREC Committee Composition

1 July 2017 - 30 June 2018

Current

John Hannagan
Trisha Dunning
Kate Birrell
Debra Kerr
Sandeep Reddy
Samantha Lopez
Lauren Mahoney
Jacqui Barry
Lynsey Blakston
Cameron Osborne
Renee Otmar
Darryl Towers
Greg Weeks
Mike Feehan
Ruth Oakden
Katherine Snowden
Nick Simpson

New

Mike Feehan
Ruth Oakden
Katherine Snowden
Nick Simpson

Outgoing

Simon French
Rod Fawcett
Vincent Haveaux

HREC Meetings

1 July 2017 - 30 June 2018

Wednesday, 12 July 2017
Wednesday, 9 August 2017
Wednesday, 13 September 2017
Wednesday, 11 October 2017
Wednesday, 8 November 2017
Wednesday, 13 December 2017
Wednesday, 14 February 2018
Wednesday, 14 March 2018
Wednesday, 11 April 2018
Wednesday, 9 May 2018
Wednesday, 13 June 2018



Open Research Projects Between 1 July 2017 and 30 June 2018

The REGI Unit managed a total of 563 open research projects during this time.

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

Research Type	Projects
Basic Applied Research (e.g. Laboratory Work)	6
Clinical Research	112
Clinical Trial Device	7
Clinical Trial under CTN/CTX Scheme	142
Data Access Request	1
Epidemiological Research	37
Psychological	1
Register: Database	45
Review/QA	170
Section 19 (5) (Authorised Prescriber)	5
Social Science	3
Qualitative Research	18
Public Health	16
Total	563

Of the total number of open research projects during the reporting period, 157 of these were new projects approved by the REGI Unit.

Of these new projects:

63 projects
were approved through the Single
Ethical Review Process

10 projects
were approved as greater than low
risk

14 projects
were approved as low risk

70 projects
as exempt/negligible risk

Comparison Of 2018 Ongoing Research Projects

(By Category) For The Period 01 July 2017 To 30 June 2018

Ongoing Research Projects for the Period 1 July 2016 to 30 June 2017

Research Type	Projects
Basic Applied Research (e.g. Laboratory Work)	3
Clinical Research	92
Clinical Trial Device	3
Clinical Trial under CTN/CTX Scheme	133
Data Access Request	1
Epidemiological Research	36
Psychological	0
Register: Database	37
Review/QA	210
Section 19 (5) (Authorised Prescriber)	5
Qualitative Research	23
Public Health	8
Social Science	2
Total	553

Ongoing Research Projects for the Period 1 July 2017 to 30 June 2018

Research Type	Projects
Basic Applied Research (e.g. Laboratory Work)	6
Clinical Research	112
Clinical Trial Device	7
Clinical Trial under CTN/CTX Scheme	142
Data Access Request	1
Epidemiological Research	37
Psychological	1
Register: Database	45
Review/QA	170
Section 19 (5) (Authorised Prescriber)	5
Qualitative Research	18
Public Health	16
Social Science	3
Total	563

Research Week 2017 Summary And Outcomes

Research week poster competition winners 2017

In 2017, the REGI Unit received 87 high quality entries in the poster competition.

Congratulations to the following researchers on their awards:

Basic Science

Anthony Chamings - Characterisation of coronaviruses in Australian Wild Birds

Clinical Research

Benson Nardino - Preoperative anaemia in Cardiothoracic Surgery

Early Career

Anthony Chamings - Characterisation of coronaviruses in Australian Wild Birds

Health Outcomes and Clinical Practice

Professor Julie Pasco - Sarcopenia and Estimates of Fracture Risk

Population Health

Kara Anderson - Spinal artefacts elevate Lumbar Spine BMD but not Trabecular Bone Score in Australian men

Service Delivery and Health Systems

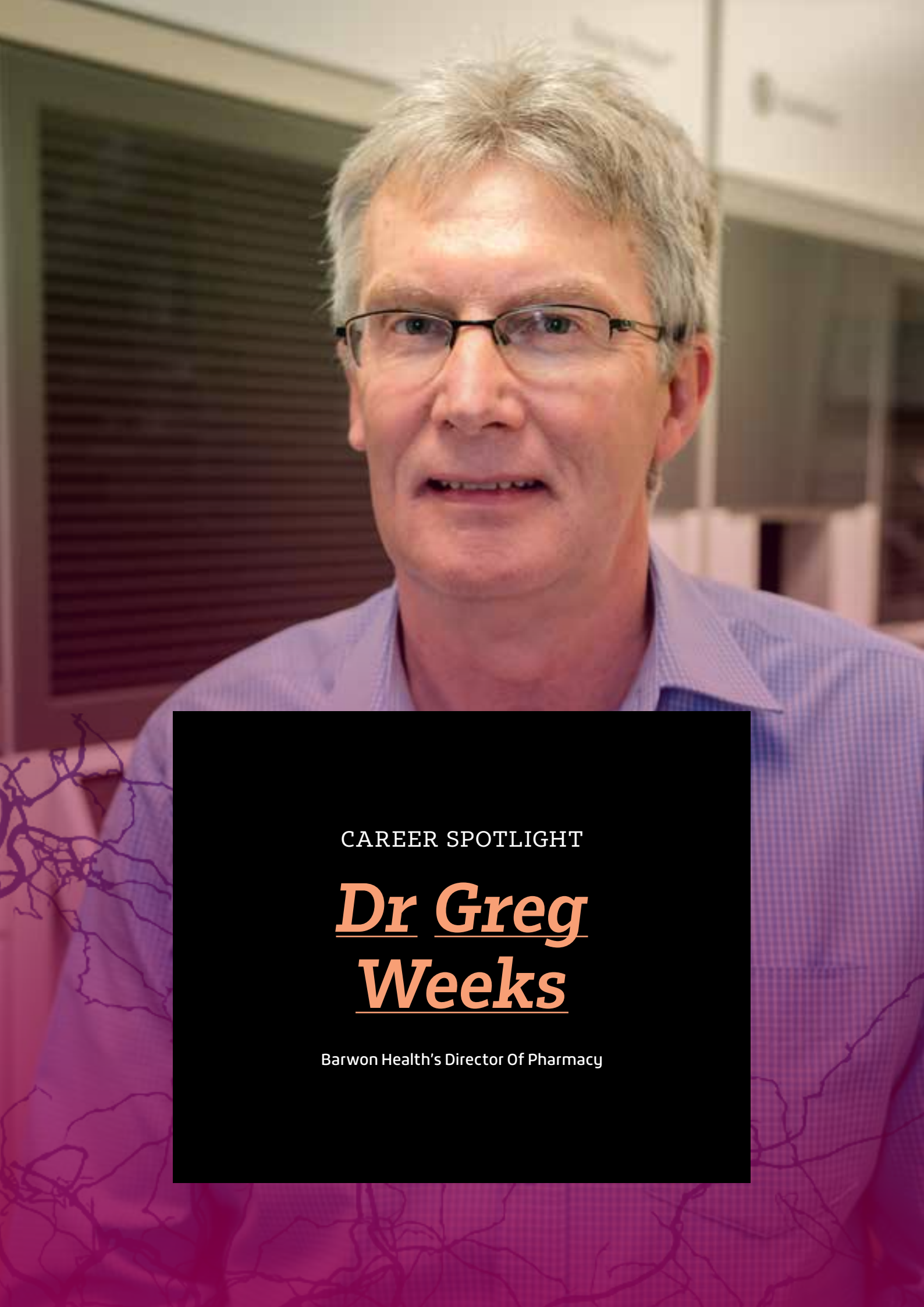
Dominic Bagguley - Delay Procedures under the Three Delays Framework at Hospital Nacional Guido Valadares (Timor Leste's National Hospital)

Audience Choice Presentation

Amanda Wade - Aiming for elimination: outcomes of a consultation pathway for general practitioners in regional Australia to increase hepatitis C direct acting antiviral treatment

Scientist Prize

Natalie Hyde - Is there an independent association of muscle mass and strength on bone measures in school aged children? - The Vitamin D in pregnancy study.



CAREER SPOTLIGHT

**Dr Greg
Weeks**

Barwon Health's Director Of Pharmacy

The Pharmacy Department provides a range of services to University Hospital Geelong, the McKellar Centre, numerous Community Health Centres and smaller health services in the region. Under the direction of Dr Greg Weeks M.Pharm, MHA, PhD FSHP, this department also plays an important role in Barwon Health's research and teaching activities and supports nearly 100 ongoing clinical trials, while undertaking its own pharmacy-related research projects.

Research engagement

The Pharmacy Department has strong links with Deakin University and supports a growing number of investigator-initiated clinical trials. A full-time equivalent clinical trial pharmacist is engaged to provide support across the many stages of clinical trials, including planning and initiation, randomisation, preparation and dispensing of trial drugs, monitoring and safety oversight. The department also supports research activities through the Barwon Health Human Research Ethics Committee (HREC), which has two pharmacist members playing a vital role to ensure the safe and ethical conduct of research activities.

Pharmacy practice research within the department has enjoyed substantial growth in recent times, partly due to links with Monash University, which is home to Victoria's preeminent pharmacy course. Barwon Health's pharmacy has engaged in a number of collaborative projects with Monash University, which have attracted ARC and Department of Health funding. These projects are host to several higher degree research students from Monash University and the University of Utrecht. Current projects show a diversity of research interests and include investigations into medicines used in palliative care, pharmaceutical care for hepatitis C patients, antimicrobial stewardship, management of chronic obstructive pulmonary disease, pharmacological management of delirium, and antihypertensive therapy in acute stroke.

Early research interests

The Director of Pharmacy, Dr Greg Weeks, has a long standing interest in research and has been involved in practice research in different areas, seeing research as part of Pharmacy's core business. Research grants have enabled Dr Weeks to investigate electronic medicines management, pharmacy automation and non-medical prescribing in the UK. An early interest in radiopharmacy led to the establishment of the service within the nuclear medicine department at Barwon

Health. Therapeutic drug monitoring has been an area of early and ongoing research. Several publications have followed collaborative research in pharmacist-led smoking cessation within hospitals. A Global Research Award for Nicotine Dependence grant will enable a randomised controlled trial to commence this year. Dr Weeks has maintained an ongoing research interest in the area of non-medical prescribing and describes his work in leading and publishing a Cochrane review on this controversial topic as a personal research highlight.

Future research directions

Dr Weeks believes future research in pharmacy will take up the challenge to ensure safe and effective medicine use across the continuum of care. Electronic medicines management, biosimilar medicines and increasingly complex cancer care are a few of the challenges presented. As drugs become more complex, the options for patients increase, along with the chance of errors.

“Our focus is on clinical pharmacy and medication safety and getting things right through the patient's admission, inpatient stay and discharge into the community.”

Dr Weeks believes increasing the pressures on health resources means hospital pharmacists have a lot to offer beyond their perceived traditional roles. He suggests there is a growing need for collaborative non-medical prescribing and Australia is lagging behind areas such as the UK, Canada and New Zealand. Evidence suggests patients accessing non-medical prescribers receive health outcomes in chronic disease management that are comparable to their medical colleagues. Access, choice and better use of health professional skills are also considerations. Dr Weeks believes there are collaborative prescribing models that would work well in hospitals particularly on admission and discharge and where specialist pharmacists practice.

Dr Weeks's advice to those interested in research is: *“Find your passion and supportive mentors to sustain you through the research years. Completing a Masters project or a PhD early on opens the career gateway.”*



SECTION

3

Barwon Health/Deakin
University Collaborative
Research Groups



Emerging Infectious Diseases (GCEID)

Professor Soren Alexandersen

Research focus

The Geelong Centre for Emerging Infectious Diseases (GCEID) is a collaborative, multidisciplinary research partnership of Deakin University, Barwon Health and CSIRO's Australian Animal Health Laboratory (AAHL). GCEID is focused on a "one health" approach to understanding and mitigating risks and reducing the impact caused by emerging infectious diseases on human, livestock, pet and wildlife health in Australia and globally.

GCEID started as a virtual partnership almost six years ago and has evolved since late 2015 into a fully established partnership with core laboratory and office space at Barwon Health's University Hospital Geelong. In addition to the work done at the core facilities, GCEID is also an important hub for facilitating partner collaboration and coordination of swift research on emerging infectious diseases, including diagnostics, vaccines, therapeutics, and epidemiology.

Major research projects

The sequencing of the genome of a human picornavirus (human parechovirus 3) that caused meningitis in young infants during an outbreak in Geelong in late 2015.

The research has focused on identifying the genomic sequence of this virus from cases in and around

Geelong, Sydney, Adelaide and Darwin to provide greater understanding of the severe disease associated with it, and the spread and epidemiology of the infection. Work is currently underway to characterise the viruses from the recent 2017 wave of infection in infants and to better understand the epidemiology of this virus in the local community. Additionally, research is exploring the development of a serological test and the very first steps required to develop and test possible pilot vaccine candidates. The work is a collaborative project with Barwon Health clinicians and scientists at GCEID, Deakin University, CSIRO-AAHL, the Victorian Infectious Diseases Reference Laboratory (VIDRL) in Melbourne and the NHMRC APPRISE CRE Network.

The screening of wild birds for the presence of coronaviruses

Coronaviruses are responsible for the emergence of epidemics/outbreaks of Severe Acute Respiratory Syndrome (SARS) and Middle East Respiratory Syndrome (MERS) more recently, both of which result in significant human disease and mortalities. In both cases an intermediate mammal, such as civets ("civet cats") for SARS and for MERS likely dromedary camels, was/is responsible for the transfer of the virus from bats to human hosts. Several types of coronavirus are specific to mammals and birds while some relatively closely-related ones, in particular the newly discovered deltacoronaviruses, may infect both. Australian wild birds do carry coronaviruses, and both deltacoronaviruses and gammacoronaviruses are present and common (prevalence of 15 per cent). Our research on this research was recently published in the journal Nature: Scientific Reports, April 2018. Work is now being performed to better characterise some of

these viruses with next generation sequencing. This project is a collaboration with Deakin University's Centre for Integrative Ecology and the WHO Collaborating Centre for Reference and Research on Influenza at VIDRL in Melbourne.

The metagenomics of viruses in Australian wild birds

Australia is home to more than 800 species of birds, both endemic, introduced and migratory species. Wild birds are potential hosts of many viruses such as Murray Valley encephalitis virus, Kunjin virus, and Ross River Virus. The introduction or transmission of viruses to novel hosts or habitats can have significant health and economic consequences. We currently have limited knowledge of the avian host-associated virus communities, including both pathogenic and non-pathogenic viruses, yet they are potential carriers with a risk of zoonotic disease emergence. In addition, as birds can fly over large distances, they may also passively carry other viruses, such as insect and plant viruses present in their sources of food. This research project aims to address the lack of knowledge through method development for virus community detection and characterisation using metagenomics to identify the virome of birds. The research will help to understand the prevalence, transmission routes and associations of virus types with disease or health status. It will provide insight into the wild bird virome with relation to ecology and contribute towards better understanding of the risks from potentially zoonotic viruses in wild birds.

Development of a Serological test for exposure to *Mycobacterium Ulcerans*

Mycobacterium ulcerans causes a necrotising infection of the skin and subcutaneous tissue. In Australia, it is known as Bairnsdale or Daintree Ulcer, but is known globally as Buruli ulcer. The mode of transmission remains unclear. The objective of the current project is to develop a serological test to better understand exposure in hotspot areas in Victoria. The study also includes mapping of cases in time and space from 1994 to 2014, to understand distribution pattern and identify possible risk factors.

Detection and characterisation of Animal influenza viruses in Australia

Every year a number of people die due to influenza virus infection in Australia. The virus is not only limited to humans but can also infect a number of animals, such as pigs, dogs, cats, horses and cattle closely in contact

with humans. The virus may cross the species barrier and cause negative impact, ultimately imposing a huge economic loss to the economy. One of the latest examples is the emergence of the pandemic swine origin 2009 H1N1 influenza that caused a pandemic throughout the world, including Australia. No active surveillance for animal influenza virus has been carried out in Australia to date. In order to fill this gap, GCEID is working on the identification and characterisation of animal influenza viruses in Australia, helping identify any influenza virus strains that may be circulating in Australia. Similarly, the study will also be useful for potentially updating the vaccines against influenza virus in swine. The research is a collaboration between Deakin University (GCEID), Australia and University of Copenhagen, Denmark.

Other Barwon Health/Deakin projects

GCEID provides scientific support for processing, experimentation and analysis of samples collected in a number of national cohort studies including the Child Cohort, Barwon Infant Study (BIS), Environmental Determinants of Islet Autoimmunity Type 1 Diabetes Study (ENDIA), Food and Mood Centre Studies (Moo'd Study, Microbiome in Alzheimer's Study), Geelong Osteoporosis Study (GOS), the Adhesive Capsulitis Biomarker Study (AdCaB), IMPACT MANGO-SZ study. BIS-related research focuses on the microbiome and immunological mechanisms associated with a number of important non-communicable diseases in infancy and childhood, including food allergy, asthma, obesity, early markers of cardiovascular disease and neurodevelopmental disorders.

The investigation of the association between psychotropic medications used in the treatment of mental health disorders and skeletal integrity

Long term use of both anti-depressant and anti-psychotic medications have been demonstrated to cause reduction in bone density and lead to increased incidence of fracture. Ongoing work using human in vitro models of bone remodelling are being conducted to investigate the mechanism of action of these drugs on bone cell function.

Major Achievements July 2017-June 2018

Professor Soren Alexandersen is a Chief Investigator (CI) representing GCEID on successful NHMRC CRE Australian Partnership for Preparedness Research on Infectious Disease Emergencies (APPRISE).

- Professor Alexandersen is a CI on successful Australian Research Council (ARC) - Discovery Project "Genomic diversity, tolerance and ecology of wildlife disease" led by Professor Andy Bennett.
- Established the GCEID Professional Development / Lab Consumables Fund to support early career researchers undertaking collaborative projects at GCEID.
- Undertook a parechovirus pilot study in collaboration with CSIRO-AAHL.
- World One Health Day public event at GCEID, featuring presentations by Researchers/Clinicians from Barwon Health, Deakin University and CSIRO (AAHL).
- Publication in Nature Scientific Reports of results for the project on the screening of wild birds in Australia for the presence of coronaviruses.
- Publication in Nature Scientific Reports of results for the project on virus detection in bird and human faeces with Next Generation Sequencing.
- Participated in a number of key Australian and International Conferences as listed.
- Publication in Calcified Tissue International of relationship between anti-depressant use and markers of bone turnover in Australian men.
- Fiona Collier is a CI on successful NHMRC grant (2018-2021) "Maternal carriage of Prevotella during pregnancy influences offspring innate immune responses and asthma at age 7.

In The News July 2017-June 2018

26 September 2017

Professor Alexandersen was interviewed by Jane Lee from ABC Radio regarding the Parechovirus.

14 November 2017

Geelong Advertiser, 'Barwon Health and Deakin University Research Week focuses on collaboration and innovation'.

17 April 2018

Invenio, Deakin University Research, 'Virus discovery in Australian wild birds'.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Continued work on potential development of an infection model for human parechovirus which could be used to assess potential vaccines, in collaboration with the GCEID partners.
- Continue collaboration with the Centre for Integrative Ecology (CIE), relating to the project on coronaviruses and the wild bird virome.
- Continue work on the NHMRC CRE APPRISE mentioned above.
- Continue collaboration with Deakin University/CIE and CSIRO-AAHL on circovirus in parrots.
- Continue to develop the One Health Training Centre in conjunction with GCEID partners Deakin University and CSIRO-AAHL.
- Arrange, promote and participate International One Health Day through a GCEID research showcase event, open to the public during the Barwon Health and Deakin University Research Week activities.
- Initiate further projects within GCEID as well as with external collaborators.
- Continue collaborations with the University of Copenhagen on influenza virus in animals at the human/animal interface.
- Welcome a new Masters Student, Niti Debnath in July 2018 to GCEID.
- Continue human bone cell in vitro studies investigating action of psychotropic medications and serotonin.

- Continue BIS collaborations with MCRI, WEHI and Susanne Brix Pedersen, Disease Systems Immunology, Department of Biotechnology and Biomedicine, Technical University of Denmark.

Staff

Professor Soren Alexandersen

DVM, PhD, DVSc, FRCPath, MRCVS Director, GCEID

Expertise in virology, pathology, epidemiology and so-called One Health, including studies of the health of humans, animals and the environment.

Dr Anthony Chamings

PhD, MANZCVS, MVS, BVSc

Joint Associate Research Fellow

Registered veterinarian and epidemiologist with an interest and expertise in infectious diseases, particularly viruses, in commercial, pet and wild animals.

Dr Vanina Guernier

PhD, MSc, Joint Associate Research Fellow

Expertise in molecular epidemiology and ecology of infectious diseases, with particular research focus on zoonoses.

Dr Jason Hodge

PhD, MSc, Laboratory Manager / Senior Scientist

Expertise in cell biology (specifically bone), intracellular signaling and molecular biology.

Dr Fiona Collier

PhD, BAppSci, Senior Scientist

Expertise in immunology, molecular biology, and flow cytometry, with particular research focus related to immune and microbiome studies within the Barwon Infant Study (BIS).

Danielle Kennedy

Medical Scientist

Minh Bui

Medical Scientist

Dr Kyoko Hasebe

PhD, BPsych, Research Assistant

Katrina Bellett

Administrative Officer

Students

Michael Selorm Avumegah

PhD

One Health approach to investigate Mycobacterium ulcerans disease.

Jessy Vibin

PhD

Viral metagenomics of Australian wild birds.

Tarka Raj Bhatta

PhD

Characterisation of influenza virus in animals at the human/animal interface.

Aseel Al-Araji

PhD

Human Infant Gut Virome and Detection of Parechovirus.

Priya Pradhan

PhD

Darcie Page Cooper

PhD

Prosthetic Joint Infections and Superbug Biofilms.

Carly Botheras

PhD

Human-staphylococcus aureus relationship; predicting disease presentation in bacteraemia.

Vinoomika Chandrasekaran

PhD

Investigating the impact of psychotropic medications on bone health in bipolar disorder.

Jasmine Cleminson

PhD

The role of serotonin in bone mass control.

Grants 2017-2018

Grant	Value	Grant	Value
NHMRC CRE	\$5,000,000	Deakin University	\$42,265
Australian Partnership for Preparedness Research on Infectious Disease Emergencies (APPRISE) Professor Soren Alexandersen 2016-2020		RESS Chromatography system Professor Soren Alexandersen 2017	
Deakin GCEID contribution – internal	\$400,000	Deakin University	\$149,999
GCEID Startup funds Professor Soren Alexandersen 2017-2018		DVCR Research Capital Funds Professor Soren Alexandersen 2017	
CSIRO One Health Training Centre	\$150,000	Deakin University	\$15,000
One Health Training Centre Professor Soren Alexandersen 2016-2019		Infection and Immunity Theme of Centre for Molecular and Medical Research Professor Soren Alexandersen 2017	
Deakin University	\$5000	Bird Life Australia	\$4940
Infection and Immunity Theme of Centre for Molecular and Medical Research Professor Soren Alexandersen 2018		2017 Stuart Leslie Bird Research Award Jessy Vibin 2017	
Deakin University	\$13,400	Barwon Health Foundation	\$23,500
Infection and Immunity Theme of Centre for Molecular and Medical Research Professor Soren Alexandersen 2018		Barwon Infant Study Fiona Collier/Peter Vuillermin 2017	
Deakin University	\$13,435	Bird Life Australia	\$1000
Small Research Infrastructure Allocation Professor Soren Alexandersen 2017		2018 Stuart Leslie Conference Travel Award Jessy Vibin 2018	

Professional Affiliations

Professor Soren Alexandersen

Member of Australia's National Avian Influenza Wild Bird (NAIWB) Steering Group

Member of the EPICORE international team

Member of the Editorial Board for Nature Scientific Reports

Member of the Deakin University Centre for Molecular and Medical Research (C-MMR) Executive Group

Barwon Health and Deakin University Research Meeting

Dr Jason Hodge

Participant in Newcomb Secondary College P-Tech Mentor Training Program

Member of Barwon Health and Deakin University Research Week Operational Committee.

Dr Fiona Collier

Conjoint Staff of Murdoch Children's Research Institute (MCRI)

Member of Barwon Health and Deakin University Research Week Operational Committee

GCEID started as a virtual partnership almost six years ago and has evolved since late 2015 into a fully established partnership with core laboratory and office space at Barwon Health's University Hospital Geelong.

Endocrinology

Professor Mark Kotowicz

Research Focus

The Department's principal research focus is the Epidemiology and Pathophysiology of Osteoporosis, centred on the Geelong Osteoporosis Study, but also using the extensive clinical data available in bone densitometry.

Recent analyses have focused on sarcopenia, frailty and the impact of diabetes on the skeleton. In collaboration with the Intensive Care Unit, we are examining the impact of critical illness on skeletal health and mortality. The Diabetes Referral Centre is recruiting for ENDIA (Environmental Determinants of Islet Autoimmunity) and a study examining artificial-intelligence assisted diagnosis of Diabetic Retinopathy, with Professor Paul Yelder and Professor Jon Watson, examining liver fat content in pre-diabetes states.

New Collaborations

New collaborations are underway with hip fracture analysis to predict fracture in renal failure (Associate Professor Grahame Elder), genetics of fragility fracture (Professor Tuan Nguyen) and effects of antiresorptive therapy on ICU mortality (Professor Jackie Centre) SGLT-2 associated diabetic ketoacidosis (Associate Professor Shane Hamlin).

The Endocrinology Clinical Trial Unit undertakes clinical trials in disorders of bone and calcium, as the Australian lead site for a study of early intervention in Paget's disease of bone. The CTU also undertakes clinical trials in the management and cardiovascular outcomes in diabetes and obesity. The CTU supports trials in infectious diseases and paediatrics.

Major Achievements July 2017-June 2018

- Professor Kotowicz promoted to Chair in Endocrinology and Diabetes.
- Professor Kotowicz was invited to Chair two sessions at the American Society for Bone and Mineral Annual Scientific Research Meeting (ASBMR), in September, 2017.
- 10 conference abstracts (five International).
- 12 publications (three in Press); three under review, and three in preparation.
- The Department of Endocrinology and Diabetes have demonstrated the utility of adding Trabecular Bone Score (TBS) to the FRAX Fracture Risk Assessment Tool in Men.
- Work on the development of Australian guidelines for assessment and management of bone health in women with Oestrogen Recepto-positive breast cancer receiving Endocrine Therapy.
- Professor Kotowicz participated in The Great Calcium Supplements Debate, Osteoporosis in Profile, Melbourne, 30 July, 2017 this debate was between Professor PR Ebeling, and Professor MA Kotowicz.
- The Department of Endocrinology has documented the epidemiology of hip fracture in Western Victoria.
- The Department of Endocrinology has documented the health burden of abnormal glucose tolerance in western Victoria.
- The Department has reported on the economic benefits of using telehealth to support management of diabetes in the Barwon region.
- The Department has completed a feasibility study on the use of an artificial intelligence-based retinal photography screening program for Diabetic Retinopathy.

- The Department has reported on the influence of geographical factors/remoteness and socioeconomic status on joint replacement surgery in Western Victoria.

Visiting Faculty

Professor Lorenz C. Hofbauer, Monday March 5 2018 at Barwon Health, Department of Endocrinology and Diabetes

In May 2007, Professor Hofbauer became Head of the Division of Endocrinology, Diabetes, and Bone Diseases, Department of Medicine III at the University Medical Center at Technische Universität Dresden, Germany. In 2016, he was appointed Director of the Center for Healthy Aging at the Dresden University Medical Center, with an interdisciplinary medical and scientific focus on maintaining lifelong mobility and autonomy.

Professor Bente Langdahl, PHD, DMSC, Tuesday 12 June, 2018 at Barwon Health, Department of Endocrinology and Diabetes

Professor Bente Langdahl is a Consultant at the Department of Endocrinology and Internal Medicine at Aarhus University Hospital, and Professor at Aarhus University, Denmark. Her research interests include identification and investigation of genetic variants that imply increased risk of osteoporotic fractures, and the development of new treatments for osteoporosis, among others.

Professor Langdahl is co-chair for the Internal Federation of Musculoskeletal Research Society (IFMRS), and past president of the European Calcified Tissue Society (ECTS). We had the privilege of Professor Langdahl visiting the Department of Endocrinology and present at the HERB Building Tutorial Theatre.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

National Health and Medical Research Council (NHMRC)

APP1156428: Denosumab or Zoledronic Acid for Fracture Prevention in Postmenopausal Critically Ill Women – A Randomised Controlled Trial (The No Fracture Trial) – CID, submitted

APP1165589: Genetic Prediction of Fragility Fracture – CIB, submitted

APP1162867 Antipsychotics and Osteoporosis: Mechanisms and clinical consequences – AI, submitted

APP1159786 Bone Material Strength Index as a predictor of fracture risk – AI, submitted

Australian Research Council (ARC)

Validation of a new technique for assessing material properties of bone – CIB, submitted

Medical Research Future Fund (MRFF)

APP1167854: Effect of Antiresorptive therapy on ICU mortality – CI submitted

Juvenile Diabetes Research Foundation (JDRF)

Artificial intelligence-assisted opportunistic screening of diabetic retinopathy in patients with type 1 diabetes at endocrinology clinics

Staff

Professor Mark Kotowicz

*Head of Department
Disorders of Bone and Calcium Metabolism*

Dr Samantha Worboys

VMO

Dr Adam Roberts

VMO
Diabetics and Diabetic Foot Ulceration

Dr Myra Yeo

VMO
Diabetes in Pregnancy

Dr Kimberly Cukier

VMO

Dr Natalie Harrison

VMO

Dr Michael McNamara

VMO

Dr Chris Jung

VMO

Kate Ellis

Div. 1 RN

Dr Richard Arnott

(Visiting Medical Officer) VMO

Dr Balvinda Kalra

VMO

Dr Lan Lan

Advanced Trainee (Endocrinology)

Dr Dahlia Davidoff

Advanced Trainee (Endocrinology)

Alana Sarah

Maternity Leave
Clinical Trials Unit Manager

Bree Sarah

Acting Clinical Trials Unit Manager

Susan Lamb

Clinical Trials Unit

Jo Chambers

Div. 1 RN and Diabetes Educator

Students

Associate Professor Neil Orford

PhD – Supervisors; Professor Mark Kotowicz
Skeletal Morbidity among Survivors of Intensive
Care Unit.

Leilia Lelis Ferreira de Abreu

PhD - Supervisors: Professor Julie Pasco, Professor Mark
Kotowicz – Deakin University – 2014
Dysglycaemia, Skeletal morbidity and Mortality.

Muhammad Amber Sajjad

PhD - Supervisors: Professor Julie Pasco, Professor Mark
Kotowicz, Dr Kara Holloway
Deakin University – 2015 -
Acute Health utilisation in diabetes.

Pamela Rufus

Ph D - Supervisors: Professor Julie Pasco, Professor Mark
Kotowicz, Dr Kara Holloway, Dr Peter Burks – Deakin
University – 2015 -
Reference ranges for Bone Material Strength Index
(BMSi) in Men.

Monica Tembo

PhD - Supervisors: Professor Julie Pasco, Dr Kara
Holloway, A/Prof Lana Williams, Professor Mark
Kotowicz - Deakin University
Biological factors that underpin frailty and
Musculoskeletal decline.

Saba Ansari

PhD – Supervisors: Professor Paul Yelder, Professor
Mark Kotowicz
Liver Fat in pre-Diabetes.

Matthew Thackery

MPhil – Supervisors: Associate Professor Neil Orford,
Professor Julie Pasco, Professor Mark Kotowicz
Changes in Muscle Mass in survivors of Critical Illness.

Grants 2017-2018

Grant	Value
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Intensive Care Foundation Research Grant	\$15,918
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Pilot phase II, randomised, double
blinded, controlled trial

Comparing denosumab to placebo
in critically ill patients at risk of
accelerated bone loss

Orford N, Kotowicz MA, Bailey M,
Maiden M, Pasco JA, Kaho N, Cooper
J, Bellomo RA.

Professional Affiliations

Professor Mark Kotowicz **Australian and New Zealand Bone and Mineral Society** **Therapeutics Committee**

Chair.

SOS National Fracture Alliance, Endocrine Society **Representative**

An organisation that aims to mobilise health consumer organisation's to ensure the identification of all fracture cases - implementing and ensuring wider uptake of best practice via Secondary Fracture Prevention Services at Health Services or within Primary Health Networks Chronic Disease Coordination Services.

Deakin University Faculty Health Board.

Deakin University Course Standards Committee.

Deakin University, School of Medicine Research & Training Committee.

Epworth Healthcare Medical Advisory Committee, Geelong MAC Representative.

Epworth Healthcare Internal Medicine Clinical Institute.

Epworth Geelong Medical Advisory Committee.

Key Collaborations

Professor Adolfo Díez-Pérez and Dr Peter Burks

Examining the utility of single point indentation technology in the assessment of skeletal fragility.

Professor Shaun McGee,

Deakin University, examining impact of obesity and hypertension on cardiac function in patients with diabetes.

Professor Trisha Dunning

Deakin University; Dr Adrian Low, Barwon Health: Geelong Frailty Study.

Professor Paul Yelder

Deakin University: Liver fat content in pre-diabetes states.

Australian Type 1 Diabetes Clinical Research Network. Role of Nox1/Nox4 inhibitor in diabetic nephropathy (CONCEPT Study in Type 1 diabetes).

Professor Mingguang He

Centre for Eye Research Australia - Development of an automated screening system for eye diseases.

Associate Professor Grahame Elder

Department of Renal Medicine, Westmead Hospital, Osteoporosis and Bone Biology Division, Garvan Institute of Medical Research, Sydney: Cortical bone changes in patients with CKDMBD.

Epidemiology (EPI-Centre for Healthy Ageing)

Professor Julie Pasco

Research Focus

The EPI-Centre for Healthy Ageing conducts population-based research focused on understanding the progression of chronic metabolic and musculoskeletal disorders, including obesity, diabetes, frailty, osteoporosis and sarcopenia, and the nexus between physical and Mental Health.

There is particular interest in the identification of modifiable risk factors that might be targeted in order to mitigate age-related declines in 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

The Geelong Osteoporosis Study (GOS)

The GOS is a prospective, population-based cohort study of men and women, originally designed to describe the epidemiology of osteoporosis and identify risk factors for fracture, and subsequently evolved over time to encompass a broad range of chronic metabolic conditions, cognitive decline and psychiatric disorders.

The Fracture Grid (GOS-FracGrid)

This is a comprehensive catalogue of radiologically-confirmed incident fractures in the Barwon Statistical Division.

The Vitamin D in Pregnancy (VIP) Study

VIP is a prospective study of mother-child pairs, designed to investigate maternal vitamin D status during pregnancy and offspring growth and development.

The Ageing, Chronic Disease and Injury (ACDI) Study

This study is designed to establish the extent and influence of ageing on chronic disease and injury throughout western Victoria.

Research Related Events

Dissemination of research findings

Thirty-five presentations at National and International Scientific Meetings: American Society for Bone and Mineral Research, USA; International Federation of Psychiatric Epidemiology, Melbourne; Australian Diabetes Society, Perth; Australian and New Zealand Bone and Mineral Society, Brisbane; Victorian Infection and Immunity Network, Melbourne; Australian and New Zealand Society for Sarcopenia and Frailty

Research, Adelaide; Society for Mental Health Research, Canberra; Australian Society for Bipolar and Depressive Disorder, Melbourne; World Psychiatric Society, Melbourne; Dietitians Association of Australia, Sydney; International Human Microbiome Congress, Ireland; Amgen Bone Academy, Melbourne; World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases, Poland.

Over 24 publications in peer-reviewed general and discipline-specific scientific journals.

Study Updates

Geelong Osteoporosis Study: The 15 year follow-up phase of the male arm of the prospective study was launched and we anticipate 700 participants for this follow-up. In this phase, we are testing bone impact microindentation (IMI) as a novel method for measuring structural properties of bone in situ. We are the first research group in Australia to use the new hand-held device, the OsteoProbe, to measure the ability of bone to resist the initiation and propagation of micro-cracks. Peripheral quantitative computed tomography (pQCT) has been introduced, to reveal intricate details of bone and muscle structure. These measures complement the battery of other tests, including bone densitometry, body composition, muscle strength, mobility, anthropometry, cognition and mental health assessments.

Vitamin D in Pregnancy Study: Measures of body composition and bone development among the children at age 11 years have been linked to their mother's vitamin D status during pregnancy.

Ageing, Chronic Disease and Injury Study: Heat maps have described the geographical distribution of diabetes, joint replacements and hip fractures throughout Western Victoria.

Major Achievements July 2017-June 2018

Dr Sarah Hosking graduated from Deakin University with a PhD and three students completed Honours in 2017. We welcomed Kara Anderson, Michelle Manning Hutson, Hajara Aslam and Matthew Thackeray as new HDR Candidates.

Hajara Aslam, Monica Tembo, Sophia Sui and Kara Anderson passed the Australian and New Zealand Bone and Mineral (ANZBMS) Clinical Densitometry course.

Barwon Health-Deakin University Research Week Award Winners: Sophia Sui (best Public Health poster), Professor Julie Pasco (best Health Outcomes/Clinical Practice poster), Dr Natalie Hyde (Audience Choice presentation).

Pamela Rufus, Sarah Hosking, Sophia Sui, Monica Tembo, Veena Chandrasekaran, Jasmine Cleminson, Kara Anderson and Marlene Goganovic were awarded travel grants to attend the (ANZBMS) Conference in Brisbane.

A 'Spring Celebration' morning tea was held at Deakin's Waterfront campus for some study participants to thank them for their long-time commitment to the Geelong Osteoporosis Study.

Current PhD scholarship holders (Deakin): M. Amber Sajjad, Sophia Sui, Stephanie Cowdery, Monica Tembo, Lelia de Abreu, Veena Chandrasekaran, Jasmine Cleminson, Monica Tembo, Kara Anderson and Michelle Manning Hutson.

Current Postdoctoral Fellowship holders (Deakin): Dr Kara Holloway, Dr Natalie Hyde and Dr Sarah Hosking.

In The News July 2017-June 2018

- MDLinx (Rheumatology): Maternal Vitamin D and offspring Trabecular Bone Score. Osteoporosis International, ranked as first in the bone field, 6 September 2017.
- MDLinx (Rheumatology): Prediction of Major Osteoporotic and hip fractures in Australian men using FRAX scores adjusted with trabecular bone score, 26 September 2017.
- Geelong Advertiser: Study unlocking secrets of Osteoporosis. 28 September 2017, page 12.
- Geelong Advertiser: Healthy approach to Ageing. 6 October 2017, page 23.
- Deakin Invenio and Deakin Showcase: Sixties Lifestyle sets stage for healthy Ageing. 5 October 2017.
- LinkedIn – Connections in the News, Sixties Lifestyle sets stage for healthy Ageing. 11 October 2017.

- Geelong Advertiser: Structure defect found; Diabetic Bone Risk. 10 November 2017, page 17.
- Deakin Showcase: Fracture risk in Diabetes not all about Bone Density.
- Geelong Advertiser: Healthy approach to Ageing. 6 October 2017, page 23.
- The Limbic. Fracture risk in Diabetes not all about Bone Density. 14 November 2017.
- Barwon Health e-Newsletter 30 November 2017: Several photos of our researchers during Barwon Health-Deakin Research Week.
- Deakin University Invenio November 2017: Initiatives signal new phase in gender equity campaign.
- Pulse Radio interview Pretirees. 8 December 2017.
- Deakin Media Release: Study of Western Victoria shows rural residents most at risk of hip fracture. 18 December 2017.
- Border Watch, Mount Gambier: Deakin University study reveals nation's greatest hip Fracture risk. 19 December 2017.
- Wimmera Mail Times: Increased risk of Fractures. 20 December 2017.
- Geelong Advertiser: Health Literacy is the key. 13 January 2018, page 26.
- Deakin this: Are you wasting money on Vitamins? 16 April 2018.
- Deakin Invenio: Sports participation reduces Fracture risk in older men. 23 April 2018.

Awards Received July 2017-June 2018

Sarah Hosking

Young Investigator Fellowship
European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases/International Osteoporosis Foundation
ESCEO-IOF UCB
WCO-IOF-ESCEO World Congress, Italy.

Pamela Rufus

3MT winner
Deakin Faculty of Health, Burwood

Sarah Hosking

Academic Writing Scholarship
Deakin School of Medicine, Geelong

Marlene Gojanovic

Academic Writing Scholarship
Deakin School of Medicine, Geelong

Kara Anderson

Academic Writing Scholarship
Deakin School of Medicine, Geelong

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

Research will focus on these topics:

- Impact microindentation for fracture risk assessment.
- Healthy ageing: Why is it that as we age, some people just get older and others become frail?
- Sarcopenia and cognitive decline.
- Dysglycemia and bone health.
- Bone health in bipolar disorder.
- Mental health and cancer risk.
- Health Literacy and vulnerability to chronic disease.
- Best practice case management and health outcomes in compensable musculoskeletal injury.

Staff

Professor Julie Pasco

Head of Department, Epi-Centre for Healthy Ageing.

Associate Professor Lana Williams

Mental Physical Health Nexus
Team Leader for GOS Mental Health

Dr Kara Holloway-Kew

Postdoctoral Research Fellow
Musculoskeletal Disorders
Team Leader for GOS Bone Health

Dr Natalie Hyde

Deakin Faculty of Health Postdoctoral Research Fellow
Bone Measurement Techniques
Research

Dr Sarah Hosking

Deakin Faculty of Health Postdoctoral
Research Fellow
Health Literacy
Research

Amanda Stuart

Research Fellow
Data Collection, Management, Analysis,
Dissemination
Research

Amelia Betson

Research Fellow
Data Collection, Analysis, Dissemination
Research

Cathy Verecondi

Administrator
Ashleigh Nicholson
Administrative Assistant

Students

Alex Addinsall

PhD
Regulation of striated muscle contractile function by
Selenoprotein S.

Kara Anderson

PhD
Bone Structure and Fracture Risk.

Fathima Hajara Aslam

PhD
A randomised controlled trial of A2 versus non-A2 milk
in Australian women.

Vinoomika Chandrasekaran

PhD
Bipolar Disorder and Bone Health.

Jasmine Cleminson

PhD
Serotonin and Bone Metabolism.

Stephanie Cowdery

PhD
Mental Health and its association with cancer risk and
associated mortality.

Lelia de Abreu

PhD
Dysglycemia in women.

Michelle Manning Hutson

PhD.
Best practice case management and health outcomes
in compensable injury.

Muhammad Amber Sajjad

PhD.
Acute health service utilisation in Diabetes Mellitus: a
Study in Western Victoria.

Sophia Sui

PhD
Muscle power and brain power: opportunities for
delaying Dementia.

Monica Tembo

PhD
The biological factors that underpin Frailty and
Musculoskeletal decline.

Matthew Thackeray

MPhil
Changes in Muscle Mass in survivors of critical illness.

Pamela Rufus

PhD
Bone material strength index: A new method for
determining material properties of bone.

Grants 2017-2018

Grant	Value	Grant	Value
NHMRC APP1104438 Bone Health in bipolar disorder Williams LJ, Pasco JA, Brennan-Olsen SL, Hodge JM 2016-2018	\$329,033.60	Deakin Faculty Postdoctoral Research Fellowship Hosking SM 2017-2018	Two years salary support, plus \$10,000 project funds
NHMRC APP1103242 Obesity, pre-diabetes and future risk of diabetes: Maximising the evidence, Minimising the cost. Huxley RR, Pandeya N, Mishra G, Magliano D, Colagiuri S, Veerman L, Pasco JA, Lee CMY 2016-2018	\$470,135.50	IMPACT SRC Seeding Grant Holloway KL 2018	\$11,028.35
Alfred Deakin Postdoctoral Research Fellowship Holloway KL 2016-2017	\$169,113	IMPACT SRC Seeding Grant Hyde NK 2018	\$4,331
Deakin Faculty Postdoctoral Research Fellowship Hyde NK 2017-2018	Two years salary support, plus \$10,000 project funds	IMPACT SRC Seeding Grant Pasco JA 2018	\$9,200
		IMPACT SRC Seeding Grant Williams LJ 2018	\$16,500

Professional Affiliations

Committees

- Barwon Health Research Review
- Deakin, School of Medicine Research & Research Training Committee (RRTC)
- Deakin School of Medicine HDR Coordinator
- Deakin Graduate Research Academy

Key Collaborations

- The University of Melbourne
- Monash University
- University of Eastern Finland, Finland
- Autonomous University of Barcelona, Spain
- Lausanne University, Switzerland
- Hebei General Hospital, China

Infectious Diseases

Professor Eugene Athan

Research Focus

Current Areas of Research focus include:

- Healthcare-associated infections
- Emerging infectious diseases/One health
- Mycobacteria ulcerans
- Device infections/biofilms
- Clostridium difficile
- Hepatitis C
- Infective endocarditis
- Refugee health
- Antimicrobial stewardship
- Cost effectiveness
- Population health
- Antimicrobial resistance
- Clinical trials

In The News July 2017-June 2018

The Infectious Disease Department had several outstanding achievements between July 2017 and June 2018 including:

- Clostridium difficile vaccine trial at Barwon Health in Geelong Advertiser, November 18, 2017 and May 16 2018
- NHMRC Partnership Grant for Controlling Buruli ulcer \$3 million
- PHN Hepatitis C Therapy Model of Care - Close collaborations continue between the Liver Clinic and the West Vic PHN. "Between June 2017 and June 2018 72 remote hepatitis C referrals were received.

Ongoing revision of the system continues in order to optimise patient care".

- Dr Amanda Wade

- Release of Infection Control Consensus Statements for Endoscopy Professor Eugene Athan writing group.

Awards Received July 2017-June 2018

Carly Botheras

Three Minute talk in Science

School of Medicine

Deakin School of Medicine, Geelong

Looking Forward

Anticipated Highlights In The Next 12 Months - July 2018

- Commencement of funded research projects including NHMRC-funded controlling Buruli ulcer
- Publications in peer-reviewed journals, more than 40 per annum.
- Five key publications

Staff

Professor Eugene Athan

Director, Department of Infectious Diseases
Health Care Infections, Endocarditis,
Deakin University, University of Melbourne
Co-supervisor 6 PhD and 2 Honours Students

Associate Professor Daniel O'Brien

Deputy Director
University of Melbourne
Mycobacteria ulcerans program

Dr Amanda Wade

Head of Hepatitis Program
Hepatitis C PI Prime Study Burnet Institute
Barwon Health

Associate Professor Deborah Friedman

Deakin University
Gram negative resistance in Aged care
Barwon Health

Dr James Pollard

Lead HITH
Cost-effectiveness
Deakin University

Dr Sarah Huffam

Antimicrobial treatment at end of life,
BioEthics
Barwon Health, Royal Darwin Hospital

Dr Aaron Walton

Microbiologist, Antimicrobial Stewardship
ACL Microbiology

Dr Raquel Cowan

Bloodstream infections in
Haematology/Oncology, Deakin University
Ballarat Health Service

Dr Alex Tai

Infectious Diseases Research Fellow
Mycobacteria ulcerans program, Spine
Infections, PJI Cohort Study

Alicia Neels

Senior Pharmacist
Antimicrobial Stewardship in GP

Rochelle Hamilton

CNC - Sexual Health
HIV and Contraception
La Trobe University

Students

Carly Botheras

Staph aureus virulence
Host-pathogen relationship

Darcie Cooper

Prosthetic joint infections
Biofilms

Selorm Avumegah

Testing for M ulcerans
Mycobacteria ulcerans

Rochelle Hamilton

HIV in Women
Sexual Health

Amanda Wade

Therapy for Hepatitis C in Region.
Public Health

Christine Roder

C difficile
Novel Therapies

Jessica Green

FMT and Depression.
Psychiatry

Grants 2017-2018

Grant	Value
NHMRC Partnership. Controlling Buruli ulcer E. Athar, D O'Brien 2018-2021	\$3,000,000
Western Alliance. Hepatitis C Regional Model of Care. Amanda Wade, E Athar. 2017-2018	\$80,000
NHMRC* Hepatitis C. Fellow. Amanda Wade. 2015-2017	\$50,000

Grant

Value

Western Alliance*

AMS in GP.
Eugene Athan
2016-2018

\$50,000

Medtronic Pacemaker

Infections Project
Pacemaker Infections Project.
E Athan
2017-2018

\$50,000

Professional Affiliations

- University of Melbourne HITH Society
- The Peter Doherty Institute, Royal Melbourne Hospital, Melbourne, VIC
- Infectious Diseases Society of America (IDSA)
- Monash University – DEPM, Burnet ASHM
- Australasian Society for Infectious Diseases (ASID) Inc
- Deakin University School of Medicine
- Commonwealth, Scientific and Industrial Research Organisation (CSIRO)
- Duke University, Durham, NC, USA
- Alice Springs Hospital/Baker Institute
- Geelong Centre for Infectious Diseases (GCEID)



Nursing

Professor Trisha Dunning

Research Focus

The Centre for Quality and Patient Safety Research (QPS) Barwon Health Partnership is dedicated to improving the safety and quality of the health and wellbeing of people in our community. Personalised quality and safe care and partnering with consumers is at the core of our work. Our work involves collaborating with Deakin, Barwon Health and external stakeholders to implement the QPS Deakin University and Barwon Health Partnership Strategic Directions for 2018-2020 to address national priority areas such as:

- Diabetes and its related complications/ consequences, including helping people with Diabetes and Health Professionals recognise and respond to changes in Health status (Standard 8: ACSQHC 'National Safety and Quality Health Service Standards', 2017).
- Life and Care transitions and Palliative and end of Life Care (Standard 4: ACSQHC 'National Safety and Quality Health Service Standards', 2017).
- Medicine Safety with Older people (Standard 4: ACSQHC 'National Safety and Quality Health Service Standards', 2017).
- Contributing to Governance and Leadership by developing evidence-based policies to improve Quality and Safety and reduce risks for people receiving care in all care settings and embedding evidence into service delivery to address the fundamental care needs of older people with complex care needs (Standard 1: ACSQHC 'National Safety and Quality Health Service Standards', 2017).
- Consumer Engagement and Communication, including Health Professional and Consumer Health Literacy-related issues (Standard 6: ACSQHC 'National Safety and Quality Health Service Standards', 2017).

- Partnering with Consumers to identify Care and Research issues, develop Research Grants and protocols and design and implement research outcomes (Standard 2: ACSQHC 'National Safety and Quality Health Service Standards', 2017).

The Key focus of our research in the past year has been:

- Managing diabetes in older people and at the end-of-life.
- The quality use of glucose lowering medicines for older people with diabetes.
- The risk factors and prevalence of frailty among community-dwelling older adults.

Major Achievements July 2017-June 2018

Major achievements during 2017-2018 were:

- Completion of the Quality Use of Glucose Lowering Medicines for Older People with Diabetes (Q-Med study) (Dunning T, Duggan N, Savage S) funded by the Australian Government Department of Health and launch of the associated suite of information on 17th November 2017 in Geelong during Barwon Health and Deakin University Research Week.
- Completion of the Improving Clinician and older people with Diabetes communication and decisions about integrating Palliative and End-of-Life care into usual Diabetes Care Study (Dunning T, Martin M, Orelliana L, Orford N) funded by the Diabetes Australian
- Research Program, and launch of the associated suite of information on 28th June 2018 in Geelong. The information will help health professionals and older people with diabetes and their families recognise the 'right time' to begin discussing palliative and end of life care and document an Advance Care Directive.

- Submission of an application for a 2019 NHMRC Translating Research into Practice Fellowship (Ostaszkiwicz T, Dunning T). The aim of the fellowship is to implement a multifaceted, evidence-based, feasible and sustainable person-centred integrated knowledge translation initiative to strengthen the quality of communication and continence care for care-dependent older people with dementia in Aged Care homes.
- The Centre employed Dr Joan Ostaszkiwicz as a Research Fellow in October 2017.
- Professor Dunning was inducted into the Sigma Theta Tau International Honour Society of Nursing International Nurse Researcher Hall of Fame (July 2017).
- Professor Dunning delivered a Keynote speech and a Plenary at the BIT 5th Annual World Congress on Geriatrics and Gerontology Fukuoka, Japan 4-6 December 2017. The title of the keynote was 'Older People: Who are they and what do they need? The title of the Plenary was Developing Guidelines to Manage Diabetes during Palliative and End of Life Care; A Collaborative, Iterative Approach.
- Professor Dunning delivered the 10th World Diabetes Day Annual Professorial Address 17th November 2017 at Geelong, entitled 'Old Age.....Ancient Wisdom, Modern Science, Do the Twain Meet?

Two PhD candidates graduated from Deakin University:

1. Dr Lisa-Jane Moody whose thesis was entitled Hearing loss in people admitted to University Hospital Geelong and,
2. Dr Roslyn Gillies whose thesis was entitled the processes nurses use to calculate medicine doses.
3. Stephanie Blackwell submitted her honours thesis for examination.

Dr Ostaszkiwicz contributed to a successful bid for the International Continence Society meeting to be held in Melbourne in 2021.

Publication outputs:

Professor Trisha Dunning: Sixteen peer review papers, four books, four book chapters, one report.

Dr Joan Ostaszkiwicz: Six peer review papers, two book chapters, two reports and one set of standards for practice.

Presentations – Three international, 10 national.

In The News **July 2017-June 2018**

Auricle – Quarterly Publication of Barwon Health, Edition 3, December 4 2017, page 3.

Professor Dunning was inducted into the Sigma Theta Tau International Nurses Society Researcher Hall of Fame. A Ceremony was held in Dublin on 29 July to recognise Nurse Researchers who have achieved significant and sustained national or international recognition for their work, with research impacting their profession and the people it serves.

Professor Dunning was nominated as a 2017 Victorian States Finalist for the Victorian Regional Achievement and Community Awards, Life Activities Clubs Victoria and Henry Carus & Associates Senior Achievement Award.

Professor Dunning was named Educator of the Year in the "Top Women of 2017" Edition of International Top 100 Magazine.

Dr Ostaszkiwicz was interviewed for Aged Care Insite: <https://www.agedcareinsite.com.au/2017/06/laughter-not-the-best-medicine-for-bladder-leakage/>

and the Australian Ageing Agenda on the topic of incontinence:

<http://www.australianageingagenda.com.au/2017/05/05/new-approach-continence-care-focuses-dignity/>

Awards Received **July 2017-June 2018**

Professor Dunning

International Nurse Researcher Hall of Fame
Sigma Theta Tau International Honour Society of Nursing.
Dublin.

Professor Dunning

Educator of the Year
"Top Women of 2017" edition of International Top 100 Magazine

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Completing, publishing and launching the revised Guidelines for Managing Diabetes at the End of Life (Dunning T, Martin P). The original guidelines for Managing Diabetes at the End of Life were published in 2010. The revision process commenced in early 2017 and is due for completion in July 2018.
- Continuing the Geelong Frailty Study (GFS) to estimate the prevalence of frailty amongst community dwelling older adults living in the Greater Barwon region and examine the association between frailty and various socioeconomic risk factors.
- Commencing the revision of the McKellar Guidelines for Managing Older People with Diabetes in Residential and Other Care Settings.
- Disseminating the suite of information to improve Clinician and Older people with Diabetes communication and decisions about integrating Palliative and End-of-Life care into usual Diabetes care.

Securing EOI/grant success:

- For a NHMRC Translating Research into Practice Fellowship to implement a multifaceted, evidence-based, feasible and sustainable person-centred integrated knowledge translation initiative to strengthen the quality of communication and continence care for care-dependent older people with dementia in aged care homes.
- For a HCF Research Foundation grant to identify and address the continence care needs of people admitted to hospital and aged care homes.
- For a HCF Research Foundation grant to identify patients at high risk of hospital acquired complications.
- For a HCF Research Foundation grant to reduce unplanned ICU admissions for patients with life limiting illness through communication education.
- For a Health Issues Centre Practice Partners Program grant to define and measure dignity for hospitalised older people.
- Writing the 5th Edition of 'Care of Persons with Diabetes'.
- Publishing a book chapter on 'Advanced Practice Continence Nursing'.
- Completing a Cochrane systematic review on toileting assistance programs for the management of urinary incontinence in adults.

- Producing a Cochrane review about combined conservative interventions for urge, stress or mixed incontinence in adults, an update of a qualitative review of barriers and facilitators to behavioural interventions for urinary incontinence from the perspective of patients and clinical staff, and a funding application to the NIHR Health Technology in collaboration with researchers from the University of Central Lancashire in the UK.
- Continuing to contribute to research on abuse of older persons in Norwegian nursing homes in collaboration with researchers at Sør-Trøndelag University College, Trondheim, Norway.
- Continuing to investigate the prevalence of and risk factors for faecal incontinence in residential aged care.
- Continuing to contribute to a scoping review about the self-management of diabetes and associated comorbidities in rural communities.

Staff

Professor Trisha Dunning AM, RN,

Credentialed Diabetes Educator, MEd, PhD.

Chair in Nursing

Diabetes, older people and palliative and end of life diabetes care.

Professor Trisha Dunning is the Principal Investigator for the Q-Med Study, McKellar Guidelines Project and the Improving Clinician and Older People with Diabetes Communication and Decisions about Integrating Palliative and End of Life Care into Usual Diabetes Care study. Professor Dunning is an internationally recognised expert in diabetes care, author of numerous books, papers and chapters, and member of key local, national and international bodies.

Dr Joan Ostaszkievicz

RN, GCert Cont Prom, GCertHE, MNurs-Res, PhD

Research Fellow

Incontinence, dignity in care, older people, care-dependence, models of aged care.

Dr Ostaszkievicz has clinical and academic expertise in gerontological nursing education and research, and specialises in the management of incontinence in frail older adults. She has worked in several collaborative academic and clinical nursing research partnerships.

Ms Susan Streat

RN, BA. Research Assistant
Communication in healthcare and holistic, person centred care. Particularly in chronic disease management.

Ms Streat is a Registered Nurse with clinical and academic experience. She works as a Research Assistant and contributes to all operational aspects of the centre.

Ms Sally Buchanan-Hagen

RN. Research Assistant
Consumer advocacy for people with mental health conditions, with a focus on emergency care.

Ms Buchanan-Hagen is a Registered Nurse with clinical and academic experience in emergency and mental health nursing. She was employed for a fixed term during 2017 to contribute to the DARP project.

Students

Dr Lisa-Jane Moody

PhD (Completed and Graduated 3/10/2017)
Hearing loss in people admitted to University Hospital Geelong.

Dr Roslyn Gillies

PhD (Completed and Graduated 5/10/2017)
The processes nurses use to Calculate Medicine Doses.

Sara Campolonghi

PhD (Current)
Healthy Food Choices: Perceptions of Australian Fathers.

Patricia Mant

PhD (Current)
Implementing a Falls Prevention strategy using the Knowledge to Action Framework – An Evaluation.

Sharyn Milnes

PhD (Current)
How do Health Professionals consider and Practice Patient-Centred Care?

Giuliana Murfett

PhD (Current)
A Competency-based approach to expanding the Diabetes Care Workforce.

Geir Tore Stensvik

PhD (Current)
The Effect of and Experience with case conferences on the prevalence of Neuropsychiatric symptoms in

Patients with Cognitive impairment and the quality of care at the Nursing Home Level. A Cluster randomised controlled trial and a Qualitative Study.

Janne Myhre

PhD (Current)
Elder Abuse and Neglect in Nursing Homes: The Role of Leadership to Promote Patient safety in Nursing Homes.

Mandy Frier

PhD (Current)
Incorporating Social Determinants of Health into the Clinical Management of Type 2 Diabetes.

Stephanie Blackwell

Honours (Completed and awaiting examination)
Older people with Diabetes: Perceptions of Diabetes Management in the Emergency Department.

Kelly-Anne Humphrys

Honours (Current)
Development of a Work Readiness tool to evaluate Graduates' Performance.

Professional Affiliations

Local Affiliates

- Deakin University
- University of Melbourne
- GP Practitioners
- Barwon Health Clinicians

International Affiliates

- Professor Alan Sinclair, Director, Diabetes Frail, UK
- Professor Marit Graue, Bergen University College, Norway
- Professor Vibeke Kaufmann, Viborg University, Denmark
- Dr Tan Ming Yeong, International Medical University, Malaysia

Reference/Consultant and Advisory Groups

- Department of Health and Ageing (DoHA) Pharmaceutical Policy Branch
- Australian College of Nursing Aged Care Expert Advisory Group.
- International Medical University – Expert Advisory Group on Diabetes Education and External Member
- Board of Studies 2016-

- Sanofi Advisory Group on safe informed use of Complementary and Alternative Medicines.
- i-Validate Advisory Group – ICU End of Life Research Program Barwon Health 2016

International Committees

- Member, IDF Nominating Committee 2015-2017
- International Federation of Ageing – Expert Advisory Group 2016–

Barwon Health

- Member, Research Review Committee (Professor Dunning 2007–
- Member, Barwon Health Human Research Ethics Committee, 2016–
- Member, Research Professoriate Committee 2012–
- Member, Deakin University and Barwon Health Research Committee 2013–
- Member, Teaching, Training and Research Governance Committee 2014–
- Member, Barwon Health and Deakin University Research Week Reviewing/Judging Panel 2016 –
- Member, Barwon Health, Health Literacy Committee, Leading the Research Component 2016–

Deakin University

- Member, School of Nursing and Midwifery, Professoriate 2007–
- Member, School of Nursing and Midwifery, Professoriate 2007–
- Member, University Human Research Ethics Committee Geelong (DUHREC) 2007–
- Chair, Faculty of Health Human Ethics Advisory Group (HEAG) 2012–
- Member, Executive and General Committees, Centre for Quality and Patient Safety Research (QPS) 2009–
- Member, Student Supervision, Research and Teaching Committee, 2014-
- Member, Faculty of Health, Faculty Grant Review Panel 2016-

Australian Diabetes Educators Association (ADEA)

- ADEA representative on the Deakin University Advisory Committee for the Graduate Certificate in Diabetes Education 2008–
- Member, Graduate Certificate in Diabetes Education Curriculum Advisory Committee (CASP) 2007–
- ADEA member, Research Foundation, 2016–
- ADEA Chair, Research Council, 2016–

- ADEA member, Endorsement Committee 2016-

National and State Committees

- Member, Diabetes Australia International Affairs Committee 2009–2017
- Member, Board of Management Diabetes Victoria 2011–
- Member, Diabetes Australia – Victoria Clinical Advisory Committee 2014–
- Member, Diabetes Australia Policies and Programs Committee 2014–
- Member, Diabetes Australia Research Grant Program Assessment Committee 2014–

Grant and Conference Abstract Assessment Panel

- Australian Diabetes Educators Association
- Deakin University Internal Grant Review Panel
- Deakin University School of Nursing and Midwifery Centre for Quality and Patient Safety Research
- Diabetes Australia Research Trust Grants (DART) Coordinate review of the education and behavioural research grant applications 2011–
- Sigma Theta Tau International Grant and Abstract Review Panel 2016-
- Diabetes UK External Grants Reviews 2015-

Dr Ostaszkiwicz

Local Affiliates

- Deakin University
- Barwon Health Clinicians
- National Ageing Research Institute
- Continence Foundation of Australia
- Continence Nurses Society Australia

International Affiliates

- Professor Adrian Wagg, Director Geriatric Medicine, University of Alberta, Canada
- Professor Mary Palmer, Helen W. & Thomas L. Umphlet Distinguished Professor in Aging, Gerontology, Research, Women's Health, University of North Carolina, Chapel Hill, North Carolina, USA
- Associate Professor Kathleen Hunter, Faculty of Nursing, University of Alberta, Canada
- Professor Sigrid Nakrem, Norwegian University of Technology and Science, Trondheim, Norway

- Associate Professor Annacrine Eldh, Linköping University & Uppsala University, Sweden
- Dr Lois Thomas, Faculty of Health and Wellbeing, University of Central Lancashire, UK

Reference/Consultant and Advisory Groups

- Professional Advisory committee, Continence Nurses Society Australia
- Member, International Continence Society Standardisation of Terminology Working Group for Continence Products.
- International Expert Advisor: KPMG project to develop key performance indicators for continence care (funded by Essity)
- Honorary Advisory Member, International Continence Society Melbourne 2021 Bid Committee

International Committees

- Chair – Nursing Research Subcommittee of the International Continence Society

- Editorial committee of the Cochrane Incontinence Review Group
- Member, Abstract Selection Committee for International Continence Society (2018)

Barwon Health

- Member, Research Review Committee (Feb 2018-)
- Member, Comprehensive Care Committee (April 2018)
- Member – Western Alliance Scientific Advisory and Leadership Team – (May 2018)

Deakin University

- Member, University Human Research Low-risk Ethics Committee (Feb 2018 -)
- Member, Centre for Quality and Patient Safety Research (QPS) (May 2018 -)



Nutritional Psychiatry (Food And Mood Centre)

Professor Felice Jacka

Research Focus

The Food and Mood Centre

The Food and Mood Centre is a new collaborative research centre, sitting within the IMPACT SRC at Deakin University. It represents a multi-disciplinary team of researchers, clinicians, post-doctorates and PhD students who are studying the ways in which diet and nutrition influence our brain, mood, and mental health; this is known as “nutritional psychiatry” research.

It is the first such centre in the world with a sole focus on nutritional psychiatry research. Professor Felice Jacka established the Food & Mood Centre in late 2016 and during 2017 it grew rapidly, from three persons to now comprise 10 PhD students, five postdoctoral researchers and a research assistant. We also have several interns working with our centre, as well as external masters and PhD students on research visits.

Major Achievements

July 2017-June 2018

As President, Professor Felice Jacka convened and led the first Major International Conference of the International Society for Nutritional Psychiatry Research (ISNPR) in Washington USA, July 2017.

The results of the first RCT of dietary improvement for major depression (the SMILES trial) were published,

leading to worldwide media including Wall St Journal, NBC, CNN, The Atlantic, The Independent, BBC and many others.

Our PhD students are supported by Deakin Postgraduate Scholarships, Australian Rotary Health Postdoctoral Scholarships, and industry-based Scholarships. Our Postdocs are supported by an Australian Rotary Health Postdoctoral Fellowship, two philanthropic fellowships from the Fernwood Foundation and The Wilson Foundation, and from Deakin Faculty of Health Postdoctoral Fellowships.

Major sponsorship and funding achievements in this short time include:

- Fernwood Foundation donation of \$509,770 over three years
- The Wilson Foundation initial donation of \$115,000 for 2017
- The Wilson Foundation donation of \$1m over five years for microbiome-gut-brain axis Research
- A2 Dairy Company \$400,000 for a large Randomised Controlled Trial (RCT).
- A Jack Brockoff Foundation ECR competitive grant for \$120,000, for Dr Amy Loughman
- BeFit Foods industry partnership \$52,492 for an RCT.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Results of Healthy Parents, Healthy Kids study, conducted at the Royal Children's Hospital in collaboration with Murdoch Children's Research Institute (MCRI).
- Results of Micro-'scope study: collaboration with Barwon Health.
- Commencement of feasibility study of a new online dietary program and phone application.
- Commencement of an RCT of conventional versus A2-only dairy.
- Commencement of the Healthy Brain Project, in collaboration with the Florey Institute
- Gut Feelings RCT will continue to generate data on the human microbiome
- Commencement of a randomised placebo-controlled trial of combined mitochondrial agents for the treatment of fatigue and depression in multiple sclerosis, in collaboration with other universities and supported by a MRFF grant to Professor Anne-Louise Ponsonby.
- Commencement of a pilot study of the ketogenic diet in psychotic illness.
- Commencement of a study of the human gut microbiome in people with eating disorders, in collaboration with the Geelong Clinic.
- Commencement of a qualitative study of fathers' attitudes to healthy eating.
- Data from large, system's-based interventions for diet and physical activity will continue to be collected in collaboration with the GLOBE Obesity Centre.
- Commencement of an RCT comparing two types of very low-calorie diets for weight loss prior to bariatric surgery, in collaboration with BeFit foods.
- Commencement of an RCT of Faecal Microbial Transplantation for Major Depression, in collaboration with Professor Eugene Athan and Associate Professor Chris Hair at Barwon Health.

Staff

Professor Felice Jacka

Director of The New Food and Mood Centre
An NHMRC Career Development Fellow

Professor Jacka is the founder and president of the International Society for Nutritional Psychiatry Research (ISNPR), which represents hundreds of research and clinical members globally. She is the immediate past president of the Australian Alliance for the prevention of mental disorders (APMD).

Honorary Research Principle Fellow with Appointments at the Centre for Adolescent Health, Murdoch Children's Research Centre and the Black Dog Institute in New South Wales

Dr Anu Ruusunen, PhD

Alfred Deakin Research Fellow

Dr Anu Ruusunen, PhD, is a clinical dietitian whose research program focuses on the ketogenic diet in psychosis, and the possible role of the gut microbiome in eating disorders.

Dr Tetyana Rocks

Fernwood Postdoctoral Research Fellow: Supported by the Fernwood Foundation

Clinical Dietitian and Educator

Dr Rock's PhD is responsible for developing and advancing a comprehensive translational program of research, based on the extensive research evidence already generated by the Food and Mood Centre.

Dr Wolfgang Marx

Alfred Deakin Research Fellow

Clinical Dietitian

Dr Marx's program of research is focused on nutraceuticals and biomarkers in psychiatry. Dr Marx is also affiliated with IMPACT Trials.

Dr Erin Hoare

Australian Rotary Health Postdoctoral Fellow
Epidemiologist

Dr Hoare is leading a program of research focused on the prevention of mental disorders

Dr Amy Loughman

The Wilson Foundation Postdoctoral Fellow
Clinical Psychologist

Dr Loughmans' PhD involves leading a program of research focussing on the human microbiome in health and disease.

Catherine Helson

Trial Coordinator

Catherine is responsible for coordinating the A2 Dairy Company RCT, as well as working as a research assistant on other projects across the Food and Mood Centre.

Students

Sarah Dash

PhD Completed 2017

Research Question: "What are the Biological Pathways associated with the Diet-Depression link? An examination of dietary-associated pathways in Major Depression"

Data Utilised: SMILES RCT; Geelong Osteoporosis Study (GOS)

Samantha Dawson

PhD Candidate

Research Question: "What is the Relationship between the Prenatal Diet and Gut health of Mothers and their Infants?"

Data Utilised: Healthy Parents Healthy Kids RCT (RCH); Barwon Infant Study

Amelia McGuinness

PhD Candidate

Research Question: "What is the Relationship between Gut Microbiota, Mental Health and Mental-health related physical comorbidities in adults?"

Data Utilised: Micro-'scope (collaboration between Deakin University, University Hospital Geelong and the Epworth Hospital)

Hajara Aslam

PhD Candidate

Research Question: "What is the impact of A2 vs Conventional dairy consumption on gut health, immune function, oxidative stress and adipocytes in middle-

aged women?"

Data Utilised: A randomised controlled trial of A2 vs standard commercial dairy products in middle-aged women

Claire Young

PhD Candidate

Research Question: "What is the Feasibility of an online dietary intervention in achieving engagement of participants with depressive symptoms and adherence to the intervention?"

Data Utilised: An Online Dietary Intervention targeting Gut Health for Improvement of Depressive Symptoms (RCT)

Sara Campolonghi

PhD Candidate

Research Question: "What are the Perceived External and Internal barriers and facilitators affecting food choices in families?"

Data Utilised: Healthy Eating from Pregnancy to Weaning, and Beyond: A Qualitative Study

Jess Davis

PhD Candidate

Research Question: "What are the Predictors of Muscle Mass in Humans?"

Data Utilised: The Geelong Osteoporosis Study (GOS)

Meg Hockey

PhD Candidate

Research Question: Is there a Differential Impact of different types of Milk proteins on Mental and Cognitive Health in Women?

Data Utilised: A Randomised Controlled Trial of A2 vs Standard commercial dairy products in Middle-aged Women

Gina Howland

PhD Candidate

Research question: Is Dietary change delivered online an efficacious intervention for PTSD compared to established Treatments (CBT)?

Data Utilised: An Online Dietary and CBT randomised, controlled Trial

Melissa Lane

PhD Candidate

Research question: Is there a differential impact on Biomarkers of two types of very low calorie diets – shakes and bars versus whole foods – in people undergoing treatment for obesity
Data Utilised: RCT of Wholefoods versus Standard VLCD in Bariatric Surgery Patients

Dr Jessica Green

PhD Candidate

Research Question: Is encapsulated FMT an efficacious treatment for Major Depression?
Data Utilised: RCT of encapsulated FMT versus placebo in MDD

Grants 2017-2018

Food and Mood Centre Grants Value

Industry Partnership \$400,000

A randomised controlled trial of A2 vs standard commercial dairy products in middle-aged women
Felice Jacka
Hajara Aslam
Meghan Hockey
Catherine Helson
2017-2020 Incl

Industry Partnership \$52,492

Dietary interventions for weight loss in obese adults
Tetyana Rocks
Anu Ruusunen
Felice Jacka
2018-2019

Philanthropic Donations Value

Philanthropic Donation \$509,770

Fernwood Foundation
Tetyana Rocks
2017-2020 incl

Food and Mood Centre Grants Value

Philanthropic Donation \$115,500

The Wilson Foundation postdoctoral Fellowship
Amy Loughman
2017 incl

Philanthropic Donation \$1,000,000

The Wilson Foundation: Gut-brain axis research
Food & Mood Centre
2018-2023

Foundation Grant Value

Jack Brockoff Foundation ECR grant \$120,000

A novel approach to modifying the risk of Alzheimer's disease: the gut microbiome
Amy Loughman
2017-2019

External Collaborative Grants Value

MRFF \$1,055,383

(CIA Prof Anne-Louise Ponsonby) A randomised placebo-controlled trial of combined mitochondrial agents for the treatment of fatigue and depression in multiple sclerosis with an assessment of the impact on kynurenine pathway metabolomics
CI Felice Jacka
Wolfgang Marx
2018-2021

NHMRC \$1,227,271

(CIA Dr Olivia Dean IMPACT Trials). The efficacy of adjunctive Garcinia mangostana Linn. pericarp for bipolar depression
CI Felice Jacka
2017-2021

Professional Affiliations

- International Society for Nutritional Psychiatry Research (ISNPR) – (FNJ president)
- Alliance for the Prevention of Mental Disorders (APMD) – (FNJ immediate past president)
- Australian Rotary Health
- Current International University Collaborations:
 - APC Microbiome Centre, University College Cork, Ireland
 - Harvard University/ Massachusetts General Hospital
 - Norwegian Institute of Public Health, Oslo, Norway
 - Department of Epidemiology and Community Medicine, University of Ottawa, Canada
 - National Research Council (CSIC), Valencia, Spain
- Universidad de las Palmas de Gran Canaria, Spain
- Centre for Research on Ageing, Health & Wellbeing, Australian National University
- GLOBE Obesity, Deakin University
- Deakin Health Economics Unit, Deakin University
- Department of Psychiatry, St Vincent's, University of Melbourne
- School of Psychology, Deakin University
- Centre for Adolescent Health, Murdoch Children's Research Institute
- School of Population and Global Health, University of Melbourne
- Black Dog Institute, NSW

As President, Professor Felice Jacka convened and led the first Major International Conference of the International Society for Nutritional Psychiatry Research (ISNPR) in Washington USA, July 2017.

Orthopaedic Surgery

Professor Richard Page

Research Focus

The past year has been an exciting time of expansion for orthopaedic and musculoskeletal research, with the renaming of our research group from Barwon Orthopaedic Research Unit to the Barwon Centre for Orthopaedic Research and Education (B-CORE). This reflects our growth in size and activity, as well as our dual site location and expanding research and support team, with extensive national and international collaborating partners

The key research pillars for B-CORE with some key examples are:

Clinical Outcomes and Service Redesign

- B-CORE joint replacement registry (incorporating Barwon Health and St John of God Hospital)
- AOA joint registry (pilot site for patient reported outcomes project)
- Evaluation and service redesign for people undergoing joint arthroplasty and fracture management
- Tourniquet use in total knee replacement (RCT)
- Microembolisation of aberrant blood vessels in chronic musculoskeletal disorders (EIEIO RCTrial).

Molecular and Microbiological

- Biomarkers and functional outcomes in people with adhesive capsulitis
- Shoulder instability tissue analysis
- Rotator cuff disease
- Biofilms and biomarkers in prosthetic joint infections

Biomechanics and Biomaterials

- Biokin joint motion analysis studies
- Suture abrasion and surgical knot security testing
- Suture anchor abrasion analysis
- 3D printing applications in orthopaedics

Major Achievements July 2017-June 2018

- Consolidation of the Barwon Centre for Orthopaedic Research and Education, including the commencement of Dr Stephen Gill as Research Fellow and the establishment of the research centre physically located at St John of God Hospital Geelong
- Commencement of two Deakin Medical School Honours research students
- Expansion of the Barwon Health Joint Replacement Registry to include St John of God Hospital patients to create a more comprehensive regional joint replacement registry
- Six new grants received
- Two trials (one RCT) registered with the ANZCTR
- 38 research projects currently underway and in various stages of the research lifecycle
- 31 conference presentations (see section below)
- 33 publications in peer reviewed journals (see below)
- 2018 – Publications – 8
- 2017 – Publications - 25

In The News

July 2017-June 2018



US Surgeon from Seattle, Dr Carl Basamnia visits Geelong Orthopaedic Shoulder Surgeons

Professor Richard Page on the national news discussing shoulder replacement outcomes

www.aoa.org.au/for-patients/articles-and-galleries



Professor Andrew Carr from NDORMS, Oxford University Visits Geelong Orthopaedic Society/ B-CORE ASM- November 2017

Awards Received

July 2017-June 2018

Professor Richard Page

AOA Research Foundation Grant
AOA Research Foundation

Looking Forward

Anticipated Highlights In The Next 12 Months - July 2018

Barwon Centre for Orthopaedic Research and Education is building and expanding its activity, now covering two sites, with research offices and team members embedded both at University Hospital Geelong and St John of God Hospital.

Highlights Include

- Expansion of the Barwon Joint Registry (BJR) to include St John Of God elective patients
- Commence first Australian study of injury profiles in regional female Australian Rules football players
- Commence data collection for AOA national patient reported outcome measures project for joint replacement patients
- Build on previous collaboration with the Centre for Sports Research | School of Exercise and Nutrition Sciences at Deakin University in shoulder function modelling.
- Expand suture analysis and potential development work with the Institute of Frontier Materials at Deakin University
- Development of a strong competitive national grant application into enhanced models of care for patients with osteoarthritis undergoing joint replacement surgery
- Up to two Masters and/or PhD students to commence with B-CORE

Staff

Professor Richard Page

Orthopaedic Shoulder and Upper Limb Surgeon St John of God and Barwon Health Chair of Orthopaedic Surgery, Deakin University Director of Orthopaedics, Barwon Health

Shoulder, Upper Limb and Hand Surgery

Director of Orthopaedics, Director Barwon Centre for Orthopaedic Research and Education

Mr B Miller

Orthopaedic Lower Limb Surgeon
Lower Limb Surgery

Mr D Bowyer

Orthopaedic Lower Limb Surgeon
Lower Limb Surgery

Mr S Williams

Orthopaedic Lower Limb Surgeon
Clinical Director Surgical and Critical Care Directorate
Lower Limb Surgery, Health Services Research

Mr R Angliss

Paediatric Orthopaedic Surgeon
Paediatric Surgery

Mr Kevin Eng

Orthopaedic Shoulder and Upper Limb Surgeon
Upper Limb Surgery

Mr Graeme Brown

Orthopaedic Surgeon
Upper and Lower Limb Surgery

Mr Andrew Thomson

Orthopaedic Lower Limb Surgeon
Lower Limb Surgery

Mr Chatar Goyal

Orthopaedic Lower Limb Surgeon
Lower Limb Surgery

Mr Nathan Donovan

Orthopaedic Lower Limb Surgeon
Lower Limb / Foot and Ankle Surgery

Mr Andrew Wilkinson

Orthopaedic Surgeon
Lower Limb Surgery

Dr Stephen Gill

Orthopaedic Research Fellow
Clinical and biomedical Orthopaedic Research.

Develop and implement studies in all stages of research life cycle. Supervise students and junior medical officers undertaking research.

Sally Beattie

Orthopaedic Research Manager
Clinical and biomedical Orthopaedic Research
Research Coordination, Barwon Health

Amanda Cowland

Data Entry and Research Assistant
Data Entry and Management

Ali Jordan

PA to Professor Richard Page

Pam Kennedy

Administration, University Hospital Geelong.

Samantha Watts

Orthopaedic Paediatric Co-ordinator

Sarah Ludowyk

ANZHFR Registry
Fractured Neck of Femur Project Officer

Students

Darcie Cooper

PhD
Biofilms and Prosthetic Joint Infections

Nima Kamal

Hons
Inflammatory mediators in the painful frozen shoulder

Andre Sepetavc

Hons
Device and biofilm infections: fighting the super bug

Dr Gil Styngess

PhD – Successful Candidature, University of Melbourne
Toward a functional and permanent interface between materials and skin

Grants 2017-2018

Grants	Value
CIHR Foundation Advancing the Care of Patients with Musculoskeletal Injuries Worldwide through Multi-National Research Initiatives Professor Richard Page (Program Expert) Professor Mohit Bhandari (PI - McMaster University) 2016-2024	\$6,943,280
Industry: De Puy-Synthes Suture Anchor Abrasion Analysis Professor Richard Page Dr Chris Hurren Mr Adam Watson 2016-2017	\$122,500

Grants	Value	Grants	Value
*Barwon Health Education, Training and Research Profile Fund (ETRPF) Adhesive Capsulitis Biopsy study - Ad-Cab Study Professor Richard Page Associate Professor Sean McGee Mr Kevin Eng Mr Graeme Brown Dr Fiona Collier Sally Beattie 2015-2017	\$31,875	Deakin University C-MMR SRC Funding Professor Richard Page 2018	\$14,000
Annual PhD candidate Support B-CORE Barwon Health Prosthetic Joint Infection Project Darcie Cooper 2017-2018	\$12,924	VORT - AOA Victoria Burden of shoulder pain in younger people Professor Richard Page 2017-2018	\$9,900
Research Fellow Grant St John of God Hospital Research Fellow Professor Richard Page Dr Stephen Gill 2017-2018 2018-2019	\$75,000	<h2>Professional Affiliations</h2> <ul style="list-style-type: none"> • Chair of Orthopaedic, Deakin University, School of Medicine • Director of Orthopaedics, Barwon Health • International Co-Chair- International Shoulder Arthroplasty Consortium (ISAC) • Specialty Editor – Orthopaedics – ANZ Journal of Surgery • Associate Editor – International Journal of Shoulder Surgery • AOA National Joint Replacement Registry Annual Shoulder Report – 2009 to 2017 • Key Collaborations – McMaster University, Canada; Kaiser-Permanente, California; Ortopedkliniken-Danderyds sjukhus, Sweden; Whitlam Orthopaedic Research Institute, University of NSW. • Australian Orthopaedic Association National Research Advisory Committee and AOA National Orthopaedic Academic Centre (NOAD) • AOA Clinical Quality Committee • Co-Convenor – AO Trauma Foundation, Hand and Wrist Cadaveric Course, Melbourne, 2018 • Shoulder and Elbow Society of Australia, Executive and Scientific Committee Member • Co-Convenor – International Reverse Shoulder Arthroplasty Symposium, Melbourne, 2017 • Victorian Association for Research Nurses Committee (S Beattie) Executive Committee Member. 	
Australian Orthopaedic Association Research Foundation Optimising Biofilm Analysis in Prosthetic Joint Infections Professor Richard Page Professor Eugene Athan Darcie Cooper 2017- 2018	\$30,000		
Industry Funding - Fellowship Education Support De Puy-Synthes Professor Richard Page 2016-2018	\$160,000		

Paediatrics (The Child Health Research Unit (CHRU))

Professor Peter Vuillermin

Research Focus

The Hunter Trial

Barwon Health was one of nine health services across Victoria and New South Wales who recruited patients for the HUNTER trial, a multicentre, randomised, non-inferiority trial of nasal high-flow for early respiratory support of newborn infants in Australian non-tertiary special care nurseries. This trial completed recruitment ahead of schedule in the latter half of 2017 and results presented for the first time at the PSANZ (Perinatal Society of Australia and New Zealand) meeting in Auckland in March 2018. The trial is being written up for submission for publication in an international journal.

The hPOD Trial

Barwon Health is one of 14 health services across New Zealand and Australia recruiting patients for the hPOD trial, a multicentre, randomised, blinded trial investigating whether prophylactic use of oral dextrose gel might prevent hypoglycaemia and need for special care nursery admission, in high-risk infant groups. University Hospital Geelong was the second Australian service to join this trial, which has now attracted participation from three further services in Australia.

The Barwon Infant Study (BIS)

The Barwon Infant Study (BIS) is a birth cohort study (n=1074) assembled using an unselected antenatal

sampling frame (2010-13). BIS has been designed to investigate the early life origins of immune related diseases in the modern environment. The team have been awarded 11 separate NHMRC grants, including three further grants in the most recent round, enabling the seven-year review to commence. To date, over 500,000 samples have been stored in the BIS Biobank.

The Environmental Determinants Of Islet Autoimmunity Study

Environmental Determinants of Islet Autoimmunity (ENDIA) is a multi-centred Australian birth cohort study investigating the early life origins of type 1 diabetes. Over 1,000 participants have been recruited (target 1,400). ENDIA has been awarded over eight million dollars, including a NHMRC Project Grant funding a comparison of the pattern of immune dysregulation in allergic disease (in BIS) versus type 1 diabetes.

Patents

PCT2016905378 Based on compelling findings in relation to NHMRC GNT1082307 (CIA), we have shown that maternal carriage of *Prevotella copri* is associated with a dramatically reduced risk of offspring IgE mediated food allergy, atopic wheeze and atopic eczema. This patent relates to the use of this knowledge as a screening test and/or intervention targeting mothers, infants and individuals with established disease. The patent has subsequently been successfully licensed to Prevatex Pty Ltd.

Grants 2017-2018

Grants	Value
<p>NHMRC Project Grant 1147980</p> <p>Maternal carriage of <i>Prevotella</i> during pregnancy during pregnancy influences offspring innate immune responses and asthma at age 7</p> <p>Vuillermin: CIA</p> <p>2018</p>	\$904,140.80
<p>NHMRC A-STAR Joint Call 1149047 Grant</p> <p>Identifying Novel Lipid and Genetic Signatures of Metabolic Disease in Early Childhood</p> <p>Vuillermin: CII</p> <p>2018</p>	\$349,696.80
<p>NHMRC Project Grant 1147970</p> <p>Investigating early life exposures to plastic product chemical in Australia and subsequent neurodevelopmental effects</p> <p>Vuillermin: AI</p> <p>2018</p>	\$780,450.60
<p>NHMRC Project Grant 1129033</p> <p>Epigenetic mechanisms of dysregulated immune function in autoimmune and allergic disease of childhood.</p> <p>Vuillermin: CIE</p> <p>2017</p>	\$452,398
<p>NHMRC CRE 1134812</p> <p>Centre for Research Excellence in Eradicating Food Allergy: Prevention, Cure and Reducing Adverse Effects</p> <p>Vuillermin: AI</p> <p>2017</p>	\$2,496,040.70
<p>The Gwenth Raymond Trust</p> <p>Support of post-doctoral studies within the context of the Barwon Infant Study.</p> <p>Vuillermin: CIA</p>	\$300,000

Grants	Value
<p>The Rebecca Cooper Foundation</p> <p>Maternal livestock exposure, offspring innate immunity and risk of allergic disease.</p> <p>Vuillermin: CIA</p>	\$24,584
<p>The Leo Dintenfass Memorial Plaque for the top ranked application to the Rebecca Cooper Foundation in 2017</p> <p>Vuillermin: CIA</p> <p>2017</p>	\$5,000
<p>The Gandel Foundation</p> <p>The Barwon Infant Study mobile laboratory to conduct school reviews.</p>	\$120,000



Psychiatry (Impact SRC)

Professor Michael Berk

Research Focus

The IMPACT SRC continues to deliver results that make a direct contribution to the health of the community. As examples, Dr Olivia Dean in her Minocycline Unipolar Depression Trial provided the first clinical trial evidence that this old antibiotic may be of value in depression and anxiety. Professor Felice Jacka's seminal SMILES trial showed diet could treat depression and has now been independently replicated, while the MoodSwings team found using web-based therapy was helpful in treating depression in people with bipolar disorder. Professor Julie Pasco has seminal evidence for a new tool to assess bone health, the OsteoProbe®. IMPACT has grown considerably in the past 12 months, both in personnel and outputs, with 169 papers in 2017, many in the very top journals.

A major strategic restructure is planned in the School of Medicine, with the potential merger of the IMPACT SRC and the Centre for Molecular and Medical Research (CMMR), led by Professor Ken Walder. The Institute will develop and expand upon the existing pillars of research excellence which reflect the research vision within the School of Medicine: Neurosciences; Infection, Immunity and Cancer; and Musculoskeletal Health. The new structure will capitalise on existing strengths within the Faculty of Health, and its existing research partners, to make a meaningful difference to the health and wellbeing of the community. This bench to bedside capacity will enhance the translation of basic discoveries in biomedicine into clinical medical practice and strengthen our capacity and reach. We would like to thank both Barwon Health and Deakin for their continued and generous support.

Major Achievements July 2017-June 2018

- Professor Michael Berk was named in the top one per cent most highly-cited in the 2017 global Clarivate Analytics report.
- IMPACT had grant success in 2017.
- Olivia Dean was awarded a NHMRC Career Development Fellowship.
- Deakin Faculty Postdoctoral Fellowships were awarded to Sarah Hosking and Natalie Hyde.
- An Australian Rotary Health Postdoctoral Fellowship was awarded to Erin Hoare.
- Erin Hoare and Wolf Marx were the recipients of an Alfred Deakin Fellowship.
- Postdoctoral Research Fellow positions offered to Tetyana Rocks (funded by the Fernwood Foundation) and Amy Loughman (funded by the Wilson Foundation).
- Lesley Berk was awarded a Victorian Medical Research Accelerator grant and an Avant grant.
- Bianca Kavanagh has received an Ian Scott Australian Rotary Health PhD Scholarship.
- Team members won several national and international prizes and awards including Dr Natalie Hyde, Sophia Sui, Kara Anderson, Professor Julie Pasco, Melanie Ashton and Dr Sarah Hosking. We partnered on two successful Medical Research Future Fund grants and the ARC Research Hub for Digitally Assisted Living.

Community Activities

- World Bipolar Day event was held on 28th March at Deakin Edge in Melbourne.
- IMPACT TRIALS has also worked to solidify relationship with Geelong Music Community Collective (GMCC), who provide funding support for our SRC student researchers.
- TRIALS team in affiliation with the IMPACT led Community and Research Network (CARN) has been working with local community members to develop a citizen science project proposal.

In The News

July 2017-June 2018

- ABC Midday Program (TV). July 07, 2017. Minocycline and depression preliminary RCT and mangosteen BD.
- Geelong Advertiser. July 08, 2017. Acne drug for depression.
- Medscape. July 12, 2017. Antibiotic shows promise for major depression.
- MDLinx (Rheumatology). September 06, 2017. Maternal vitamin D and offspring trabecular bone score.
- Geelong Advertiser. September 28, 2017. Study unlocking secrets of osteoporosis.
- Deakin Invenio and Deakin Showcase. October 05, 2017. Sixties lifestyle sets stage for healthy ageing.
- Geelong Advertiser. October 06, 2017. Healthy approach to ageing.
- Deakin Invenio. October 11, 2017. Funding boost for malaria and mental health research.
- Geelong Advertiser. October 12, 2017. Deakin University researchers receive National Health and Medical Research Council fellowship. LinkedIn - Connections in the News. October 11, 2017. Sixties lifestyle sets stage for healthy ageing.
- Geelong Advertiser. October 12, 2017. Deakin University researchers receive National Health and Medical Research Council fellowship.
- Deakin Showcase. November 2017. Fracture risk in diabetes not all about bone density.
- Geelong Advertiser. November 10, 2017. New test uncovers diabetes bone risk.
- The Limbic. November 14, 2017. Fracture risk in diabetes not all about bone density.
- 3AW Neil Mitchell radio interview. November 16, 2017. Food and Mood.

- Geelong Advertiser. November 21, 2017. Mangosteen's ripe with possibilities.
- Barwon Health e-Newsletter. November 30, 2017. Photos of IMPACT researchers during Barwon Health-Deakin Research Week.
- Pulse Radio 94.7fm. December 08, 2017. Professor Julie Pasco interviewed re: Preirees and The Geelong Osteoporosis Study.
- Deakin media release. December 18, 2017. Study of Western Victoria shows rural residents most at risk of hip fracture.
- Border Watch, Mt Gambier, South Australia. December 19, 2017. Deakin University study reveals nation's greatest hip fracture risk.
- Wimmera Mail Times, Horsham, Victoria. December 20, 2017. Increased risk of fractures.
- Interview with Professor Felice Jacka, Director of Food and Mood Centre, Deakin 5AA, Adelaide, Mornings, Leon Byner 05 Apr 2018.
- ABC's Norman Swan interviewed Professor Michael Berk, 2018.
- Pulse Radio 94.7fm, interviewed Professor Michael Berk, 2018.
- Triple R radio interviewed Adam Walker re: World Bipolar Day, 2018.

Awards Received

July 2017-June 2018

Dr Olivia Dean

Nominated for 2017 Women in Community Life, City of Greater Geelong

Dr Sarah Hosking

International award: 2017 ESCCEO-IOF UCB Fellowship

Pamela Rufus

Co-winner of 3-minute thesis (3MT) competition (and 3rd place at Faculty level)

School of Medicine

Deakin University, Waurin Ponds

Melanie Ashton

Best Student Presentation

The School of Medicine Postgraduate

Research Symposium.

Deakin University, Waurin Ponds

Melanie Ashton

Young Investigator Award 2017 EUR 400 travel grant.
World Federation of Societies of Biological Psychiatry (WFSBP)

Melanie Ashton

PDG Geoff Betts and Betty Betts Early Mental Health Research Award

Impact

\$5000 Conference Travel.

Student Associate of Cooperative Research Centre for Mental Health.

Looking Forward

Recruitment began for new clinical trials to investigate the effectiveness and benefits of; N-acetylcysteine for smoking cessation, N-acetylcysteine for ice addiction, icare4bipolar. We have a multitude of biological correlates data to be disseminated. Several studies commenced in previous years are still recruiting. Two youth depression alleviation studies and the ASPEE study completed data collection and data analyses and manuscript preparation is underway. The mangosteen for schizophrenia study will complete participant visits at the start of 2019.

Staff

Professor Michael Berk

Director
Psychiatry

Professor Julie Pasco

Director
Bone Health / Epidemiology

Associate Professor Seetal Dodd

BSc DipEd MSc PhD
Clinical Associate Professor.

Drug Safety

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. He has been involved in the publication of guidelines, which has assisted clinicians to make well-informed and balanced treatment decisions. These include publications

regarding the safe use of drugs for the evidence-based treatment of various mental illnesses as well as publications about safe treatments in special populations, such as pregnant and breast-feeding women. A major international collaboration to produce antidepressant safety guidelines has recently been accepted for publication in The World Journal of Biological Psychiatry and includes three IMPACT SRC co-authors. A second manuscript focusing on Treatment Resistant Depression authored by the same authorship team is currently in planning.

Associate Professor Ajeet B Singh MD MBBS MPsych MD FRANZCP

Associate Professor Singh is an Academic Private Psychiatrist.

Senior Clinical Lecturer and Honorary Research Fellow at the School of Medicine, Deakin University.

Genetically Guided Antidepressants

Genetically guided prescribing (precision medicine) may help sooner match patients to effective tolerable medication. Precision medicine has been identified as a priority area of medical research globally given its potential for improved patient outcomes and reduced costs of care. Exponential cost reductions in genotyping via automation have seen genotyping prices drop from tens of thousands of dollars to (for some gene panels) under \$100 in just the past few years. Should clinical utility be demonstrated for superiority of genetically guided prescribing over traditional trial and error prescribing, it's likely the technology will see rapid clinical uptake.

Dr Singh hopes to elucidate the pharmacogenetic keys to the BBB. His inspiration comes from seeing the reality of trial and error prescribing in clinical practice, with hopes to reduce this process and speed patient recovery through precision medicine. Dr Singh is an advisor to both government and industry groups on precision medicine, and hopes to help spearhead translation of the technology into the real world.

Dr Lesley Berk BA, Psych Honours, MA (Clin Psych), PhD

Post-Doctoral Research Fellow

Psychosocial Intervention For People With Bipolar Disorder

Dr Lesley Berk is a postdoctoral research fellow and psychologist. Her research focuses on examining psychosocial risk factors and developing interventions to assist people and families dealing with depression

or bipolar disorder, and she has contributed extensively to the literature in this area. She is currently developing a psychosocial intervention for people with bipolar disorder that is provided as an adjunct to pharmacotherapy. The intervention integrates face-to-face and online methods of treatment delivery. To this end she works closely with the School of Information Technology at Deakin University, and collaborates with researchers at the University of California, Berkeley, Harvard, Stanford and Swinburne universities.

Dr Berk previously developed and evaluated an information website for family/friends of people with bipolar disorder www.bipolarcaregivers.org that receives over 17,000 visits a month and was positively evaluated in a follow-up study. She was recently awarded the Australian Society for Bipolar Disorder and Depression/Servier Depression grant to develop a website to assist family and friends who often have a vital role in supporting a person with depression, as well as an Avant and Victorian Medical Research Accelerator Fund grant. She also contributes to training of staff in the use of psychological assessments for clinical research trials and conducts assessments on the Geelong Osteoporosis Study.

Dr Olivia Dean

BSc (Hons) PhD

Director of the IMPACT TRIALS, Research Fellow with the School of Medicine, Deakin University.

Dr Dean is 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.

Ellie Brown BSc Hons (Psyc), PGCert

Trial Coordinator at IMPACT TRIALS

Ellie is a Trial Coordinator at IMPACT TRIALS in the final stages of a Prof Doc in Counselling Psychology. She has worked with individuals with mental health problems in a clinical and research capacity for more than 10 years. She has worked on a number of large investigator-initiated trials in the UK with a focus on health services research and novel, multi-disciplinary interventions for SMI.

Dr Alyna Turner, BSc(Psyc) (Hons), PhD

Research Fellow/Trial coordinator

Registered clinical psychologist

Clinical Trials

Dr Turner has worked with people with comorbid conditions (mental health/substance misuse/physical health conditions) in a clinical and research capacity for more than 16 years, with a focus on therapy development and evaluation. Her work spans the areas of stroke and its psychological sequelae, health behaviour change for CVD secondary prevention and CVD primary prevention in people with severe mental illness (SMI), and clinical trials of novel pharmacological agents for SMI and substance misuse.

Dr Turner has implemented screening and assessment protocols to ensure mental health support is provided when needed, and is delivering brief interventions targeting adjustment and mood. Outcomes will be analysed in 2018.

Associate Professor Lana Williams

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

Associate Professor Williams is a NHMRC Career Development Fellow and Psychologist with the Epi Centre for Healthy Ageing

Mental-Physical Health Research

Dr Williams and her team are leading investigations aimed at understanding the interplay between mental disorders, associated treatment regimens and physical disease. Research conducted within her division to date has revealed associations between mood, anxiety and personality disorder and a range of medical conditions including osteoporosis, irritable bowel syndrome, atopic disorders, pain, cancer and cardiovascular diseases. Associations between mood and anxiety disorders and lifestyle factors, such as smoking and physical activity, and social factors, such as area-based socioeconomic status and quality of life, have also been explored. A wide range of social, psychological and biological factors such as the presence of inflammation and/or oxidative stress are being investigated, which may explain these associations. Complementing this work is a case-control study of bipolar disorder, designed to identify associated lifestyle and physical co morbidities. The epidemiological resources and collaborations that form the foundation of this program of work are an invaluable resource for collaborative studies, generating knowledge able to be transferred into clinical practice,

service planning, and policy development, as well as both predictors and outcomes associated with disease state and the identification of novel therapeutic targets are able to be determined. This program is supported by strong collaborative ties with the Geelong University Hospital, University of Eastern Finland, and the Norwegian University of Science and Technology, as well as extensive collaboration within Deakin University and other groups located throughout Europe and the UK.

Dr Brisa Fernandes

MD, PhD Psychiatrist

Biomarkers In Bipolar Disorder And Schizophrenia

Dr Brisa Fernandes' main research field concerns the discovery and application of biomarkers. She recently demonstrated that C-reactive protein is a biomarker in bipolar disorder capable of indexing the severity of manic symptoms. This is being done with the ultimate goal of developing a personalised medicine strategy for these common mental disorders. It is anticipated that the implementation of validated biomarker tests will not only improve the diagnosis and more effective treatment of persons with mental illnesses but ultimately improve prognosis and disease outcome.

Dr Kara Holloway

PhD

Post-Doctoral Research Fellow

Risk Factors For Musculoskeletal Disorders

Dr Kara Holloway's current research program focuses on musculoskeletal decline across a variety of population sub-groups. She has recently been involved in evaluating the impact of diabetes on bone quality and quantity, as well as how these changes impact fracture risk. This is an important area of inquiry, as individuals with diabetes take longer to recover from fractures and have a higher risk of infection and delayed or insufficient healing. To date, Kara has published 14 first-author manuscripts and a further 17 manuscripts as co-author, in high quality, peer-reviewed journals such as *Calcified Tissue International*, *Osteoporosis International*, *Bone*, *Archives of Osteoporosis* and the *Journal of Affective Disorders*. This year, Kara's work has been presented at many conferences, both national and international, including Brisbane, Italy, and the United States. Kara also supervises two Honours and five PhD students at the IMPACT SRC.

Dr Mohammadreza Mohebbi

BSc, MS, PhD

Senior Research Fellow

Biostatistician Dr Mohebbi has been involved in design and analysis of large population-based cohort studies, clinical trials and statistical issues related to survey data. His primary areas of research are biostatistics and epidemiologic aspects of public health and psychiatric research. He is CI investigator of two NHMRC project grants and CI biostatistician in a NHMRC partnership grant. Dr Mohebbi is on the supervisory panel of five PhD candidates.

Dr Emma Gliddon

PhD

Post-Doctoral Research Fellow

Online Self-Help In Bipolar Disorder

The MoodSwings 2.0 online self-help program for bipolar disorder has been evaluated by an international randomised controlled trial. The primary aim of this study was to assess if the three components of the MoodSwings 2.0 program have an additive benefit on improvement in depression and mania scores across 12 months.

This study involved a 3-arm randomised parallel group stepped design, with 304 international participants. Participants were randomised to receive a discussion board only (control – Group 1), discussion board plus psychoeducational modules (Group 2), or discussion board, modules, and interactive tools (Group 3). Significant improvements in depression were found across all follow up time points in favour of Group 2 compared to the control group. The findings of this study suggest that online self-help interventions for bipolar disorder can have a positive impact on mood severity over time. Our team is now preparing to further evaluate the MoodSwings program through a hybrid effectiveness/implementation study and further analysis of secondary outcomes is continuing.

Dr Natalie Hyde

PhD

Post-Doctoral Research Fellow

Gestational Vitamin D And Development In Offspring

Dr Natalie Hyde has been working on disseminating the findings from her thesis. Her published research to date has described associations with maternal vitamin D in early pregnancy, but not late, and offspring trabecular

bone score. The findings with body composition and bone mineral density will be published in the latter part of 2017. Moreover, she is now looking towards examining exposures during pregnancy and mental health outcomes, utilising the unique data set from the Vitamin D in Pregnancy (VIP) Study.

Dr Sarah Hosking

PhD

Post-Doctoral Research Fellow

The Role Of Health Literacy In Osteoporosis In Women

The Australian Bureau of Statistics estimates that 59 per cent of Australians do not possess the health literacy skills required for basic health management. Low levels of health literacy have been associated with poorer prevention and self-management of a range of health conditions; however, there is a paucity of research regarding health literacy and osteoporosis specifically.

Dr Hosking's project aimed to address the current knowledge gap using data from the Geelong Osteoporosis Study (GOS) and the Vitamin D in Pregnancy (VIP) Study.

This project has provided evidence to suggest health literacy in women is associated with uptake of a number of lifestyle-specific osteoporosis prevention recommendations, and in communicating a diagnosis of osteoporosis to older women. In particular, health literacy skills associated with finding, understanding and using health information in managing health appear to be of greatest importance.

Dr Sarah Dash

PhD

Biological Pathways That Mediate The Link Between Diet And Depression

The relationship between diet and mental health has now been consistently demonstrated across age groups and various geographic locations; however, there is still a lack of understanding as to which biological pathways are directly and indirectly involved.

This project investigated various measures of biological action in the diet/depression association, including the dietary inflammatory index among participants in the Geelong Osteoporosis Study, as well as inflammatory gut health and neurotrophic biomarkers from participants involved in the SMILES dietary RCT. This project has highlighted the importance of

'big data' analyses, improved understanding of gut microbiome composition and function, and the need to implement dietary strategies for depression. We aimed to better understand and identify some of the possible mechanisms to guide the development of targeted dietary prevention or intervention strategies. This thesis has recently passed examination, and manuscripts from this project are now being prepared for submission.

Dr Amy Loughnan

Post-Doctoral Research Fellow

Gut Microbiome

The role of the gut microbiome and mental health is being studied across the lifespan. Dr Loughnan's research focus is to understand the role of the gut microbiome in human mental and brain health, taking into account physical health and health behavioural factors. She also aims to improve the use of statistical analyses suitable for understanding the microbiome and human health. One of Dr Loughnan's findings in early childhood relates to the novel association between gut microbiome composition at age 12 months and child behaviour outcomes at age two. Her research in this area continues.

Catherine Helson

Research Assistant

Tetyana Rocks

PhD, BSci(Hon), BNutrDiet

Post-Doctoral Research Fellow

Translational research and research evaluation and dissemination.

Dr Rocks's main role is to support the translation of the current evidence in the field of Nutritional Psychiatry into policy and clinical practice by facilitating resources for knowledge translation and dissemination.

Dr Rocks is actively collaborating with a number of internationally recognised organisations to evaluate existing and to develop new clinical services for individuals with mental health issues. Dr Rocks is also developing educational modules in Nutritional Psychiatry for current and future medical practitioners to facilitate a broader understanding on diet and mental health and to provide necessary skills to help individuals and communities.

Dr Erin Hoare

Post-Doctoral Research Fellow

Community-based approaches to prevent mental disorders among young people

This research aims to evaluate the potential for nutrition and physical activity interventions in the community to improve mental health outcomes among young people. In particular, this research program aims to investigate the potential of system thinking for improved mental and physical health outcomes.

A key finding in this research program was the significant decrease in adolescent depressive symptoms following a whole school approach to healthier nutrition and physical activity systems. Further findings at state-level are expected at the end of 2018.

Dr Wolf Marx

Post-Doctoral Research Fellow

Novel interventions for mental health and cognitive symptoms.

Wolfgang's research focuses on the efficacy and mechanisms of novel nutraceutical and plant-derived bioactive compounds for mental health and cognitive symptoms in at-risk populations.

Wolfgang has published a series of meta-analyses on the effect of various nutraceutical interventions for cognition, mental health as well as other chronic diseases. Wolfgang is currently involved in a multi-centre randomised controlled trial investigating the use of nutraceutical therapy for fatigue and depression in patients with multiple sclerosis.

Dr Joanna Dipnall

PhD

Post-Doctoral Research Fellow

The Development Of A Clinical Risk Index For Depression

Dr Joanna Dipnall's research developed a structural equation model for a Risk Index for Depression (RID). A novel new methodology was developed to formulate the RID which blended machine learning algorithms with traditional statistical techniques to identify clusters of respondents associated with depression in a large epidemiological study.

This sophisticated methodology has been published in an international journal. The next stage of this research

is to validate the RID on longitudinal data with the intention for future clinical use.

Dr Anu Ruusunen

PhD

Post-Doctoral Research Fellow

Clinical dietitian

Nutritional Psychiatry For Psychotic Disorders

Anu Ruusunen (PhD in Epidemiology) has a background in nutrition and she has worked as a clinical dietitian with psychiatric patients and eating disorder patients. Anu has authored 23 international, peer-reviewed publications.

Dr Anu Ruusunen started her two-year Health Post-doctoral Research Fellowship within the Food and Mood Centre, IMPACT SRC, in July 2017. It's known that glucose metabolism is altered in patients with psychotic disorders, such as schizophrenia, and it has been demonstrated in animal and case studies that restriction of dietary carbohydrates may reduce schizophrenia-like behaviours. Anu's post-doctoral project includes a ketogenic diet intervention conducted in psychotic patients to examine the potential effects on psychotic symptoms and gut microbiota.

Dr StellaMay Gwini

Conjoint Clinical Lecturer – Biostatistics

StellaMay works on multiple projects spanning many areas of medicine, although with special research interest in hypertension research, appropriate and efficient use of data analysis tools, use of administrative data to improve health services and post-marketing surveillance of medical drugs and technologies.

Amanda Stuart

Research Assistant

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.

Jenny Rapa

Research Assistant

Jenny works as a research assistant in the IMPACT TRIALS team, on the trial investigating the efficacy of

mangosteen pericarp as an adjuvant in schizophrenia or schizoaffective disorder. She also works part time as a hospital coordinator at Broadmeadows Hospital.

Jenny obtained a General Nursing Certificate in 1987 at the Repatriation General Hospital. She was drawn to psychiatry on her student nurse placement, looking after a war veteran, suffering from PTSD. She then completed her Psychiatric Nursing Certificate in 1990 at Mont Park Psychiatric hospital. She gained a Graduate Diploma of Health Counselling in 1993, at Victoria University of Technology. She then updated her certificate qualifications with a Bachelor of Health Science (Nursing) in 1997, at Charles Sturt University. The majority of her mental health experience has been community-based.

Margaret Kent

Research Assistant

Margie is a Registered Nurse and Midwife, with extensive clinical experience in Mental Health and Drug and Alcohol, and keen interest in Perinatal Mental Health and Substance Use. Margie is a Research Assistant for IMPACT TRIALS, working on N-ICE Trial, which is a collaborative project with other Australian universities, public health services and drug and alcohol clinical/research institutes.

Dr Adam Walker

Research Assistant

Adam received his PhD in 2016 in the field of behavioural neuroscience. His project focused specifically on treatment-resistance in mood disorders such as unipolar depression, and bipolar disorder.

Adam works as a research assistant in the IMPACT TRIALS team, and the current chair of the Community And Research Network (CARN). He will soon take on trial co-ordination responsibilities on the a trial investigating the efficacy of mangosteen pericarp as an adjuvant in schizophrenia.

Students

Kara Anderson

PhD

Bone microindentation and fracture risk.

Lauren Arancini

PhD

Psychiatry and addiction.

Melanie Ashton

PhD

Mangosteen pericarp as an adjunctive treatment for bipolar depression.

Hajara Aslam

PhD

A randomised control study of A2 milk vs standard commercial dairy products in middle aged women.

Sara Campolonghi

PhD

Exploring the perceived enablers and barriers for healthy food choices in parents.

Vinoomika Chandrasekaran

PhD

Bipolar disorder and bone health.

Mary Lou Chatterton

PhD

Cost-effectiveness evaluations of bipolar disorder and schizophrenia treatments supporting redesign of the Australian mental health system.

Jasmine Cleminson

PhD

Serotonin and bone metabolism.

Stephanie Cowdery

PhD

Mental health and its association with cancer risk and mortality.

Samantha Dawson

PhD

Maternal and infant gut health.

Lelia De Abreu

PhD

Dysglycaemia in women.

Bianca Kavanagh

PhD

Personality disorder as a moderator of psychiatric clinical outcomes.

Amelia McGuinness

PhD

MICRO-SCOPE

Pamela Rufus

PhD

Bone material strength index: a new method for determining the material properties of bone.

M. Amber Sajjad

PhD

Acute health service utilisation in diabetes mellitus: a project in Western Victoria.

Monica Tembo

PhD

Developing an understanding of musculoskeletal conditions in relation to frailty.

Sophia Xin Sui

PhD

Muscle power and brain power: opportunities for delaying dementia.

Claire Young

PhD

Online dietary intervention targeting gut health for the treatment of depression – a feasibility study.

Grants 2017-2018

Grants

Value

NHMRC Established Career Fellowship (APP1059660).

\$822,925

Novel therapies, risk pathways and prevention of mood disorders

Berk M

2014-2018

NHMRC Career Development Fellowship (APP1064272).

\$404,884

Psychiatric disorders, psychotropic agents and bone health: From bench top to bedside.

Williams L.

2014-2020

Grants

Value

NHMRC Project Grant (APP1078928).

\$467,203

Gene expression signature technology to repurpose drugs for bipolar disorder.

Walder K, Berk M, Leboyer M.

2015-2017

NHMRC Project Grant (APP1081901).

\$767,593

ASPREE-D; Aspirin in the prevention of depression in the elderly.

Berk M, McNeil J, Neilson M, Shah R, Woods R, Mohebbi M.

2015-2018

NHMRC Project Grant (APP1121510).

\$1,227,271.60

The efficacy of adjunctive *Garcinia mangostana* Linn. pericarp for bipolar depression: A 24-week double-blind, randomized, placebo-controlled trial.

Dean OM, Berk M, Ng C, Dodd S, Hopwood M, Turner A, Jacka FN

2017-2020

NHMRC Project Grant (APP1027315).

\$1,475,510

Proof of principle of the inflammatory and oxidative theory of depression: A treatment study.

Berk M, Channen A, Harrigan S, Davey C, Hetrick S, Dean OM, Dodd S.

2012-2017

NHMRC Project Grant (APP1104438)

\$329,033.60

Bone health in bipolar disorder.

Williams LJ, Pasco JA, Maes M, Hodge J, Brennan-Olsen SL.

2016-2019

Grants	Value	Grants	Value
<p>NHMRC project grant (APP1125778) Partner led grant.</p> <p>The efficacy of N-acetylcysteine as an adjunctive treatment for first episode psychosis.</p> <p>Cotton S, Dodd S, Wood S, Allott K, Bartholomeusz C, Bortolasci C, O'Donoghue B, Ratheesh A.</p> <p>1/1/2017 to 31/12/2021.</p>	\$2,143,069.40	<p>NHMRC Career Development Fellowship (2) (#1108125)</p> <p>Diet and mental health: translating new knowledge into innovative prevention and treatment strategies.</p> <p>Jacka FN, Berk L.</p>	\$30,000
<p>NHMRC project grant (APP1103242)</p> <p>Obesity, pre-diabetes and future risk of diabetes. Maximising the evidence, minimising the cost.</p> <p>Huxley RR, Pandeya N, Mishra G, Magliano D, Colagiuri S, Veerman L, Pasco JA, Lee CMY.</p> <p>2016-2018.</p>	\$470,135.50	<p>Alfred Deakin Post-doctoral Research Fellowships.</p> <p>Holloway K, Fernandes B, post-doctoral research fellows</p> <p>2017</p>	(\$78,146 in 2016, \$80,967 in 2017, \$10,000 project funding).
<p>NHMRC Project Grant (APP1128147)</p> <p>The N-ICE trial: A randomised controlled trial of the safety and efficacy of N-Acetyl Cysteine (NAC) as a pharmacotherapy for methamphetamine ("ice") dependence.</p> <p>McKetin R, Dean OM, Lubman D, Dietze P, Higgs P, Kelly P, Turner A, Quinn B, Carter G.</p> <p>2017-2019.</p>	\$1,610,722.40	<p>Australian Respiratory Council Harry Windsor grant scheme.</p> <p>Can we reduce tobacco smoking using N-acetylcysteine as a cessation treatment?</p> <p>Berk M, Dodd S, Dean O</p> <p>Awarded December 23, 2016.</p>	\$50,000
<p>NHMRC Project Grant (APP1125429).</p> <p>Healthy living after stroke: An online intervention for improving stroke survivor health behaviours and quality of life.</p> <p>Bonevski B, Spratt N, Pollack M, Baker A, Magin P, Turner A, Oldmeadow C, Collins C, Callister R.</p> <p>2017-2019.</p>	\$590,958.24	<p>Stanley Medical Research Institute (#14T-007).</p> <p>The efficacy of adjunctive <i>Garcinia mangostana</i> Linn (mangosteen) pericarp for the treatment of Schizophrenia: A double-blind, randomized, placebo-controlled trial.</p> <p>Berk M, McGrath J, Dean O, Dodd S, Cotton S.</p> <p>2015-2017</p>	USD \$899,398
<p>NHMRC Career Development Fellowship R.D. Wright Biomedical (CDF Level 2). Integrated exploration of novel therapies for depression.</p> <p>Dean OM.</p> <p>2018-2020</p>	\$476,728	<p>ASBDD/Servier Grant</p> <p>Development of icare4depression, a psychoeducation website for close family/friends of adults with major depressive disorder.</p> <p>Berk L.</p> <p>2017-2018</p>	\$30,000

Grants	Value	Grants	Value
<p>Central Research Grants Scheme – Deakin University. Project grant.</p> <p>Exploring the bioactive compounds and mechanisms of action in mangosteen pericarp.</p> <p>Dean O, Barrow C, Pfeffer F, Walder K, Berk M, Conlan X, Dodd S.</p> <p>2016</p>	\$29,000	<p>Australian Rotary Health Postdoctoral Fellowship</p> <p>Australian Rotary Health Postdoctoral Fellowship</p> <p>Community-based systems approach for prevention of mental illness among young people.</p> <p>Erin Hoare.</p> <p>2018-2020</p>	\$225,000
<p>Avant Quality Improvement Grant Program</p> <p>n/a. Berk M.</p> <p>Awarded December 21, 2016.</p>	\$10,000.	<p>Defence Health Foundation Grants for Medical Research. Booster Grant.</p> <p>A trial of N-acetylcysteine for Post-Traumatic Stress Disorder that hasn't improved with normal treatment.</p> <p>Kanaan R, Berk M, Back S, Redston S.</p> <p>2017-2020</p>	\$192,816
<p>A2 Dairy Company.</p> <p>A randomised controlled trial of A2 vs conventional dairy in Australian women.</p> <p>Jacka FN.</p> <p>2017-2020</p>	\$700,000 (approx)	<p>Fernwood Gyms Sponsorship.</p> <p>Postdoctoral Research Fellow and associated support.</p> <p>Jacka FN.</p> <p>2017-2020.</p>	\$509,770
<p>ARC Research Hub for Digital Enhanced Living IH170100013</p> <p>Professor John Grundy 2017-2021.</p> <p>The Hub involves 11 Deakin University staff including Professor Grundy. These include: Professors Venkatesh S, Mouzakis k, Hutchinson A, Berk m, Maddison R, Kouzani A, Vasa R, Yearwood J, Wickramasinghe N and Associate Professor Phung D.</p> <p>Five years</p>	\$2,962,655	<p>Seed Funding Grant – IMPACT SRC. GOS</p> <p>Microbiome. Funding for staff salary.</p> <p>Jacka FN.</p>	\$10,000
<p>Health Post-doctoral Research Fellowships, Faculty of Health, Deakin University Nutritional psychiatry for psychotic disorders.</p> <p>Anu Ruusunen, post-doctoral research fellow.</p> <p>July 2017</p>	\$80,490 per annum	<p>Seed Funding Grant – IMPACT SRC.</p> <p>Investigating consumer needs and preferences for technology-supported self-management approaches to bipolar disorder.</p> <p>Gliddon E.</p> <p>2017</p>	\$5000
<p>Stroke Association of Victoria, AMP Employment Boost</p> <p>The stay at work initiative. Turner A, Smith H, Glascodin M, Stephens C.</p> <p>2017-2019.</p>	\$100,000	<p>Seed Funding Grant – IMPACT SRC.</p> <p>Bone material strength index (BMSi) assessed using OsteoProbe®. Funding to cover the biochemistry costs.</p> <p>Holloway K.</p> <p>2017</p>	\$18,855.69.

Grants	Value	Grants	Value
<p>Seed Funding Grant – IMPACT SRC.</p> <p>The association between bone material strength index (BMSi) assessed using OsteoProbe and blood levels of Calcium, Phosphate and Magnesium. Funding for calcium, Phosphate and Magnesium blood biochemistry - GOS.</p> <p>Holloway K.</p> <p>2017</p>	\$8000	<p>Seed Funding Grant – IMPACT SRC.</p> <p>Investigating consumer needs and preferences for technology-supported self-management approaches to bipolar disorder. Funding for Participant re-imburement, advertising.</p> <p>Gliddon E.</p> <p>2017</p>	\$6874
<p>Seed Funding Grant – IMPACT SRC</p> <p>An Online Dietary Intervention targeting Gut Health for Improvement of Depressive Symptoms: A Feasibility Study. Funding for Website Development, artwork, Domain Registration, Recruitment - Online Advertising.</p> <p>Jacka FN</p> <p>2017</p>	\$8000	<p>Seed Funding Grant – IMPACT SRC.</p> <p>Identification of incident fractures – a vital parameter in musculoskeletal research. Funding for staff salary.</p> <p>Pasco JA.</p> <p>2017</p>	\$8867
<p>Seed Funding Grant – IMPACT SRC.</p> <p>The development of MyOwnApp for adults with bipolar disorder. Funding for Casual Research Fellow Grade 25 hours a week for 16 weeks.</p> <p>Berk L</p> <p>2017</p>	\$11,399		
<p>Seed Funding Grant – IMPACT SRC.</p> <p>Improving data acquisition and bio-specimen storage. Funding for Data linkage, Food frequency questionnaire computer-read analyses, Bio-specimen storage.</p> <p>Pasco JA.</p> <p>2017</p>	\$19,388		

Professional Affiliations

International Affiliations

- Stanford University, Stanford, CA, USA
- Edward Hines Jr VA Hospital, Hines, IL, USA
- University of Oxford, Oxford, UK
- University College Cork, Cork, Ireland
- Norwegian Institute of Public Health, Nydalen, Oslo
- University of Eastern Finland, Joensuu, Finland
- University of Bergen, Bergen, Norway
- Université Paris-EST, Paris, France
- University of Barcelona, Barcelona, Spain
- University of Cantabria, Santander, Spain
- University of Lisbon, Lisbon, Portugal
- University of Manitoba, Winnipeg, Canada
- McGill University, Montreal, Quebec, Canada
- Universidade Estadual de Londrina, Paraná, Brazil
- University of Minnesota Medical School, Minneapolis, United States
- Mayo Clinic Depression Center, Mayo Clinic, Rochester, United States
- University of British Columbia, BC, Canada
- Auckland University of Technology, Auckland, New Zealand

- North West University, Potchefstroom, 2520, South Africa
- Aarhus University Hospital, Risskov, Denmark
- University of British Columbia, BC, Canada
- Harvard Medical School, Cambridge, MA, USA
- Northwest University, Kirkland, Washington, USA
- University of Cambridge, Cambridge, UK
- University of Glasgow, Scotland, UK
- University of Southern Denmark, Odense M, Denmark
- University of Copenhagen, København, Denmark and Beijing Genomics Institute, Shenzhen, China [collaboration]
- Norwegian University of Science and Technology, Trondheim, Norway
- Lausanne University Hospital, Lausanne, Switzerland
- Autonomous University of Barcelona, Barcelona, Spain
- Universidad Complutense, Madrid, Spain
- International Affiliation
- Hospital Santa Maria, Lisbon, Portugal
- University of Toronto, Ontario, Canada
- Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
- Universidad de Antioquia, Medellín, Colombia
- Shiraz University of Medical Sciences, Shiraz, Iran
- Chulalongkorn University, Bangkok, Thailand
- Karolinska Institutet, Stockholm, Sweden
- King's College, London
- University of Otago – Christchurch, New Zealand
- Technische Universität Dresden, Germany
- Chonnam National University Medical School, Gwangju, Republic of Korea
- NYU Medical Center, New York, NY
- Loyola University Chicago, Maywood, IL, USA
- University of New South Wales, Sydney, New South Wales
- Queensland University of Technology, Brisbane, Queensland
- Australian National University, Canberra, Australian Capital Territory
- Orygen, The National Centre of Excellence in Youth Mental Health, Parkville, Victoria
- Murdoch Children's Research Institute, Parkville, Victoria
- Menzies Research Institute, Hobart, Tasmania
- QIMR Berghofer Medical Research Institute, Brisbane, Queensland
- University Hospital Geelong, Barwon Health, Geelong, Victoria
- Royal North Shore Hospital, New South Wales
- The CADE clinic, Sydney, New South Wales
- City of Greater Geelong, Geelong, Victoria
- G21 Alliance, Geelong, Victoria
- Australian Catholic University, Melbourne, Victoria.
- The University of Western Australia, Nedlands, Western Australia
- The University of Queensland, St Lucia, Queensland
- James Cook University, Townsville, Queensland
- University of Queensland Diamantina Institute, Woolloongabba, Queensland
- Curtin University, Canberra, Australian Capital Territory
- Florey Institute of Neuroscience and Mental Health, Melbourne, Victoria
- The Brain and Mind Research Institute, Sydney, New South Wales
- The Black Dog Institute, Sydney, New South Wales
- The Australian Institute for Musculoskeletal Sciences, Melbourne, Victoria
- Sir Charles Gairdner Hospital, Nedlands, Western Australia
- Albert Road Clinic, Melbourne, Victoria
- The Melbourne Clinic, Richmond, Victoria
- Kardinia Health, Geelong, Victoria
- Community and Research Network (CARN), Geelong, Victoria

Local and National Affiliations

- The University of Melbourne, Parkville, Victoria
- The University of Sydney, Camperdown, New South Wales
- Monash University, Clayton, Victoria

Surgery

Professor David Watters

Research Focus

- Global Surgery
- Robotics in surgery/ HAPTICS
- Surgical Audit
- Surgical Outcomes
- Surgical Education
- Surgical Performance Indicators
- Microbiome

David Watters is an academic surgeon with interests in general, colorectal and endocrine surgery. He has published more than 200 peer-reviewed publications and six books including *Stitches in Time - Two centuries of Surgery in Papua New Guinea* (Xlibris, 2012) and *ANZAC Surgeons of Gallipoli* (RACS 2015).



Professor David Watters AM OBE

His research interests include history of surgery, surgical audit and performance, colorectal outcomes, perioperative mortality and global health. He is actively engaged in advocating for global surgery, having spent almost 20 years in developing countries including Papua

New Guinea, Hong Kong, Zambia and South Africa. He is an Edinburgh University graduate, and in addition to the FRACS, a fellow of the Edinburgh, Hong Kong, and East Central and Southern Africa Colleges of Surgeons. David Watters is the past president of RACS (May 2015-May 2016) who since 2000 has been Professor of Surgery for Barwon Health in Geelong, initially with Melbourne (2000-2010), and then Deakin University. In June 2018, in recognition of significant service to medicine and medical education and leadership roles with professional organisations, he was awarded the Queen's Birthday Honours AM and became a Life Member of the Medical Society of Papua New Guinea in 2017. In August 2016, Deakin University appointed him the title of Alfred Deakin Professor. He was appointed an Honorary Member of the Asian Surgical Association in 2015 and in recognition of his contribution to surgery and surgical training in Papua New Guinea he was awarded the OBE in 2012, and the Rotary's Paul Harris Fellowship in the year 2000.

Major Achievements July 2017-June 2018

- June 2018, Professor David Watters became a member of the Order of Australia in recognition of his significant service to medicine and medical education in endocrine and colorectal surgery and through leadership roles with professional organisations.
- June 2018, Professor David Watters externally examined the MD in Lund, visiting Edinburgh, London, Birmingham and Oxford to learn from the postgraduate training in global surgery so it could inform the Master of Surgery program, Deakin University.
- May 2018, The article co-authored by Professor David Watters and Professor Glenn Guest et al.

titled 'Countries and colleges collaborate to improve access in Oceania and Southeast Asia' was published in the American College of Surgeons Bulletin in Highlights released at the time of the World Health Assembly in Geneva to highlight the progress made in global surgery.

- May 2018, Professor David Watters, representative at the World Health Organisation's 71st World Health Assembly.
- May 2018, Dr James Ross is the first trainee of the South West Victorian Regional Hub (SWVRH) to gain the Fellowship.
- May 2018, Department of Surgery Registrars passed their FRACS Exit Exams: Dr Sujith Krishnamoorthy, Dr Suat Ng, Dr David Low, Dr Gausihi Sivarajah, Dr Steven Lau.
- May 2018, Professor David Watters attended the Planetary Health Annual Meeting.
- April 2018, Dr Eileen Moore became a Conjoint Clinical Lecturer with Deakin University.
- April 2018, The Master of Surgery program commenced through Deakin University, Professor Glenn Guest was appointed head of program.
- February 2018, Dr Sonal Nagra joined the team as a Senior Lecturer, Deakin University.
- January 2018, Dr Eileen Moore graduated from Harvard University with high distinction, completing her certificate in Data Science & Management.
- November 2017, Dr Greg Leverett completed his final year dissertation titled: 'Tranexamic Acid and Thromboembolic Events in Hip Fracture Surgery: A meta-analysis' for the award Master of Surgical Science, The University of Edinburgh, graduating with distinction.
- October 2017, Dr Mark Boydell graduated in Master of Surgical Science, The University of Edinburgh, gaining a distinction in his thesis titled 'Diverticular Disease in Victoria, Australia'.
- October 2017, Associate Professor Douglas Stupart was the convenor for the Royal Australasian College of Surgeons, Victorian Annual Scientific Meeting held in Geelong on 21-22 October 2017.
- October 2017, Professor David Watters was the invited National Guest Speaker at the Provincial Surgeons of Australia Annual Scientific Conference, Armidale, New South Wales.
- September 2017, Professor David Watters gave the Opening Plenary Lecture 'The Key Messages of the Lancet Commission of Global Surgery' at the PNG Medical Society 53rd Medical Symposium, Port Moresby.

- 2017/2018, Professor David Watters and Dr Sonal Nagra represented Victoria in a Binational audit of emergency laparotomy (ANZELA-QI), making Geelong a pioneer site.
- 2017/2018, Undergraduate teaching expanded to include Epworth Hospital.
- 2017/2018, Research outcomes were published in high quality journals in the areas of global surgery, surgical safety, surgical audit and surgical outcomes and performance.
- 2017, The MicroScope project 'Effect of bowel prep for colonoscopy on intestinal microbiota' recruited their first patient.

During Professor David Watters 2018 sabbatical, he visited six hospitals in Malaysia where he presented on global surgery metrics, emergency laparotomy audit and leadership:

- Malaysia: RACS Travelling Fellow to the College of Surgeons Academy of Medicine of Malaysia, Annual Scientific Congress: Keynote address 'It's all about the right metrics – reporting access to safe, affordable and timely surgical and anaesthesia care'.
- King's College London, talks: 'Reflections on PGR', 'Lecture on Global Surgery', 'Reflections on the MSc Program' and 'Reflections on Partnerships in Timor and the Pacific'.
- Birmingham, talk on 'Global Surgery advocacy, gaps and progress'.
- Oxford, talk 'Global Surgery research – gaps and opportunities'.

Professor David Watters Received Acknowledgements In The Following Programs:

- World Health Organisation: Surgical Care Systems Strengthening - Program in Global Surgery and Social Change.
- Professor Glenn Guest, World Health Organisation: Surgical Care Systems Strengthening - South Pacific.
- World Health Organisation: List of priority medical devices for cancer management - Experts, participants in teleconferences and document editors.
- Acknowledged in the Australian Commission on Safety and Quality in Healthcare: The Second Australian Atlas of Healthcare Variation 2017 – Surgical interventions: Topic Expert Group.

- Acknowledged in the Royal Australasian College of Surgeons Review Working Group: Rehabilitation Pathways Following Hip and Knee Arthroplasty Final Report November 2017.

In The News

July 2017-June 2018

- June 2018, Professor David Watters became a member of the Order of Australia in recognition of his significant service to medicine and medical education in endocrine and colorectal surgery and through leadership roles with professional organisations.
- October 2017, Professor David Watters Deakin University Graduations Ceremony Highlights Career advice to last a lifetime.
- October 2017, Professor David Watters Conferred: Alfred Deakin Professor at Deakin Graduation Ceremonies.
- October 2017, Professor David Watters presented the prestigious Guthrie Lecture "Daring to Dream of Equal Opportunity in Medicine" British Society for the History of Medicine.
- September 2017, Professor David Watters, News article appearing in The National Papua New Guinea titled "Investment in surgery crucial".
- September 2017, Professor David Watters was presented with a Certificate of Life Membership in recognition of his valuable support and contributions towards the Medical Society of Papua New Guinea and to Medical Practice and Medical education.
- May 2017, Professor David Watters OBE, RACS Awards: inducted into Membership of the Court of Honour.

Awards Received

July 2017-June 2018

Mr Dominic Bagguley, Mr Andrew Fordyce, Dr Alito Soares, Dr Edgar Valadares, Professor Glenn Guest, Professor David Watters

Most Outstanding Science Delivery/Health Systems: Quantifying access delays to Bellwether surgical procedures within the Three Delays Framework at Hospital Nacional Guido Valadares (Timor Leste's National Hospital).

Barwon Health and Deakin Research Week, November 2017.
Geelong, Victoria.

Benson Nardino, Dr Andrew Marriott, Mr Chenghon Yap, Dr Eileen Moore.

Department of Surgery & Department of Anaesthetics

Most outstanding clinical Research: Preoperative anaemia in Cardiothoracic Surgery.

Barwon Health and Deakin Research Week, November 2017.

Geelong, Victoria.

Staff

Alfred Deakin Professor David Watters

AM OBE ChM FRCSed FRACS

Professor of Surgery with Deakin University.

Chair in Surgery with University Hospital Geelong.

Global health

History of Surgery

Surgical audit and performance

Colorectal outcomes

Lecturer, Deakin University medical students. Author of 20 peer-reviewed publications in high quality journals, July 2017-June 2018. Professor Watters examined in the MD in Lund, Edinburgh, London, Birmingham and Oxford to learn from their postgraduate training in global surgery so it could inform the Master of Surgery program offered through Deakin University and Department of Surgery in April 2018.

Professor Glenn Guest

MBBS FRACS BSc (Hons)

Professor of Surgery with Deakin University

General/Colorectal Surgeon with University Hospital Geelong.

Supervisor of General Surgical trainees for the South West Victorian Regional Hub.

Director of the RACS AusAid Timor Leste Surgical Program

Chair in Surgery at the Epworth Hospital Geelong.

Head of the Master of Surgery program, Deakin University and Department of Surgery.

Colorectal and minimally invasive surgery

Surgical education

Health in developing countries

Convener for the next General Surgeons Australia and Pacific Islands Surgeons Association Biennial Meeting to be held in Fiji in September/October 2018. Author of six

peer-reviewed publications in high quality journals, July 2017-June 2018.

Associate Professor Douglas Stupart

MBChB PhD FCS (SA) FRACS

Associate Professor and Senior Lecturer in Surgery with Deakin University. General Surgeon with University Hospital Geelong.

Bowel cancers. Convener for the Royal Australasian College of Surgeons Victorian Annual Scientific Meeting held in Geelong on 21-22 October 2017. Senior Lecturer, Deakin University medical students. Author of six peer-reviewed publications in high quality journals, July 2017 – June 2018.

Dr Sonal Nagra

MBBS MMedSurg FRACS

Senior Lecturer in Surgery with Deakin University. General Surgeon with University Hospital Geelong. General Surgery. Academic surgeon actively involved with research in the department. Lecturer, Deakin University medical students. Dr Nagra and Professor Watters are representing Victoria in a Binational audit of emergency laparotomy (ANZELA-QI), making Geelong a pioneer site.

Dr Eileen Moore

BSc (Hons) PhD (The University of Melbourne)

DS Mgmt. (Harvard University)

Research Fellow with Department of Surgery. Senior Clinical Trials Coordinator, Department of Anaesthesia, Perioperative Medicine and Pain Management

Surgical outcomes

Surgical audit/performance

Global health indicators

Clinical trials

Research Fellow in the Department of Surgery. Manages all department research including the research repository www.surgical-research.com and provides statistical and project consulting to senior and junior medical staff. Author of four peer-reviewed publications in high quality journals, July 2017 – June 2018. Dr Moore is a member of the Barwon Health Human Research Ethics Committee and Clinical Trial Advisory Committee and is the Senior Clinical Trials Coordinator on 6 national and international clinical trials offered through the Department of Anaesthesia, Perioperative Medicine

& Pain Management Research Unit and Department of Surgery.

Ms Anne Vandewater

Adv Dip of Management CPM AAPM Dip of Bus.

Executive Assistant to the Chair of Surgery

Executive / Business Administration

Coordinates and compiles the department's annual report, research reports and related publications. Liaises with the Deakin Clinical School in regards to clinical training, OSCE exams and research. Manages the Department of Surgery Research website www.surgical-research.com. Coordinates the general surgery consultant and registrar rosters, educational meetings and surgical training.

Ms Stephanie Kempton

BBSoc (Hons) MPsych(Neuro) CCN MAPS

Trauma Audit Coordinator

Trauma Audit

Prepares quarterly trauma audit reports for the Multi Trauma Audit Committee held in the Department of Surgery. Prepares the Smashed and Bashed Grand Rounds data from the trauma database.

Ms Christine Campbell

BNurs General Surgery Clinical Information Coordinator

Surgical audit

Risk management

Manages and coordinates the thyroid, inguinal hernia, cholecystectomy, and colorectal surgery databases. Prepares annual audit reports, retrieves surgical data providing assistance to researchers in the department.

Students

Dr Suat Chin Ng

Master of Surgery, The University of Melbourne (thesis in preparation for submission 2018).

Is there any role for surveillance in elderly colorectal cancer patients post curative resection.

Dr Kai Lee

PhD by publication, Deakin University (thesis in preparation for submission 2018).

Alcohol Related Facial Trauma.

Dr Su Mei Hoh

Master of Public Health, The University of Melbourne
(thesis in preparation for submission 2018)
Bellwether Access in Malaysia.

Dr Pia Bernardi

Doctor of Medical Science, The University of Melbourne
(thesis submitted 2017).
Prediction and prognosis in anal cancer: Developing
models to improve patient outcome.

Dr Mark Boydell

Master of Surgical Science, The University of Edinburgh
(thesis submitted 2017. (Graduated with distinction).
Diverticular Disease in Victoria, Australia.

Dr Greg Leverett

Master of Surgical Science, The University of Edinburgh
(thesis submitted 2017, graduated with distinction).
Tranexamic Acid and Thromboembolic Events in Hip
Fracture Surgery: a meta-analysis.

Dr Eileen Moore

Data Science & Management, Harvard University
(course complete, graduated 2017)
Data Science, Information Systems Management,
Statistics

Dr Gausihi Sivarajah

MSc of Public Health, London School of Hygiene &
Tropical Medicine (commenced 2017)
Perioperative Mortality Rate (POMR) in Global Surgery

Professor Siven Seevanayagam

PhD by Research, Deakin University (commenced 2017)
Health Informatics

Dr Amelia McGuinness

PhD by Research, Deakin University (commenced 2017)
Effect of bowel prep for colonoscopy on intestinal
microbiota

Dr Wendy Crebbin

PhD by Research, Deakin University (commenced 2015)
Teaching Junior Doctors: How experts think: What
impact does it have?

Dr Andrew Cheng

PhD by Research, Deakin University (commenced 2015)
Postoperative Atrial Fibrillation after Cardiac Surgery

Dr Suat Chin Ng

Master of Surgery, The University of Melbourne (thesis
in preparation for submission 2018)
Is there any role for surveillance in elderly colorectal
cancer patients post curative resection

Professional Affiliations

- Royal Australasian College of Surgeons (RACS)
- Deakin University
- The University of Melbourne
- Harvard University
- The University of Edinburgh
- Barwon Health Human Research Ethics Committee
- Barwon Health Clinical Trials Advisory Committee

Collaborations With The Department Of Surgery

Department of Psychiatry

Effect of bowel prep for colonoscopy on intestinal
microbiota (Micro-'scope)

Amelia McGuinness, Eileen Moore, Douglas Stupart,
Glenn Guest, Christopher Hair, Michael Berk, Brisa
Fernandes, Karsten Kristiansen, Felice Jacka, David
Watters

Barwon Health HREC Ref: 15/129

Department of Radiology

Anatomical variation of the location of the appendix
on computed tomography: is a focused abdominal
pelvic CT scan feasible for the investigation of
acute appendicitis?

Behdin Abed, Eileen Moore, Kevin Shaw

The University of Melbourne

Can the faecal microbiome influence food preferences
in mice?

Douglas Stupart, Leni Rivera

St John of God Pathology

BRCA1 Immunohistochemistry in colorectal cancer

Douglas Stupart, Jordanco Nizamovski

Barwon Health HREC Ref: 17/84

Department of Anaesthesia, Perioperative Medicine & Pain Management

The perioperative administration of dexamethasone and infection in diabetic and non-diabetic surgical patients

Tomas Corcoran, Andrew Iliov, Andrew Marriott, Eileen Moore, Nicole Duggan, Melissa Formica, Rachel Fiddes
Trial ID: ACTRN12614001226695.

Department of Anaesthesia, Perioperative Medicine & Pain Management

The effect of peri-operative ondansetron on bowel recovery and ileus after colorectal and small-intestinal surgery

Andrew Tung, Douglas Stupart, Greg Weeks, Eileen Moore, Mohammadreza Mohebbi, Andrew Marriott

Barwon Health HREC Ref: 16/199

Department of Anaesthesia, Perioperative Medicine & Pain Management

Preoperative anaemia in cardiothoracic surgery

Benson Nardino, Andrew Marriott, Chenghon Yap, Eileen Moore

Department of Anaesthesia, Perioperative Medicine & Pain Management

Reasons why patients refuse clinical trials: a joint project between the department of Anaesthesia and Surgery

James Zwirs, Eileen Moore, Andrew Marriott

Department of Anaesthesia, Perioperative Medicine & Pain Management

The Post-Anaesthesia N-acetylcysteine Cognitive Evaluation trial: investigating the potential for n-acetylcysteine to reduce cognitive dysfunction following major elective non-cardiac surgery

David Skvarc, Olivia Dean, Linda Byrne, Laura Gray, Kathryn Ives, Matthew Lewis, Richard Page, Mohammadreza Mohebbi, Cameron Osborne, Douglas Stupart, Eileen Moore, Nicole Duggan, Melissa Formica, Rachel Fiddes, Tessa Broadley, Seetal Dodd, Michael Berk, Andrew Marriott

Trial ID: ACTRN12614000411640

Department of Anaesthesia, Perioperative Medicine & Pain Management

IV Iron for treatment of anaemia before cardiac surgery

Paul Myles, Ross Mackenzie, Andrew Marriott, Cheng-Hon Yap, Bo Zhang, Nicole Duggan, Eileen Moore, Melissa Formica, Rachel Fiddes

Trial ID: HREC/12/Alfred/88

Department of Anaesthesia, Perioperative Medicine & Pain Management

Restrictive versus liberal fluid therapy in major abdominal surgery

Cameron Osborne, Stephen Bolsin, Simon Gower, Andrew Marriott, Eileen Moore, Nicole Duggan

Trial ID: HREC/12/Alfred/58

Department of Anaesthesia, Perioperative Medicine & Pain Management

The influence of anaesthetic depth on patient outcome after major surgery

Stephen Bolsin, Cameron Osborne, Simon Gower, Andrew Marriott, Eileen Moore, Nicole Duggan

Trial ID: HREC/12/MH/385

Department of Anaesthesia, Perioperative Medicine & Pain Management

Reduction of chronic post-surgical pain with ketamine trial

Andrew Marriott, Claire Furyk, Eileen Moore, Nicole Duggan, Melissa Formica, Rachel Fiddes

Trial ID: HREC/17/Austin/161

Department of Urology

Flexible Ureteroscope/Renoscope/Pyeloscope Usage Audit (FURPA): Contributing Factors and Costs in Pyeloscope Damage

Richard Grills, Sita Murugappan, Matthew Morey, Belinda Jennings, Matthew Hong, Eileen Moore

Department of Urology

Octogenarians undergoing nephrectomy

Richard Grills, Eileen Moore

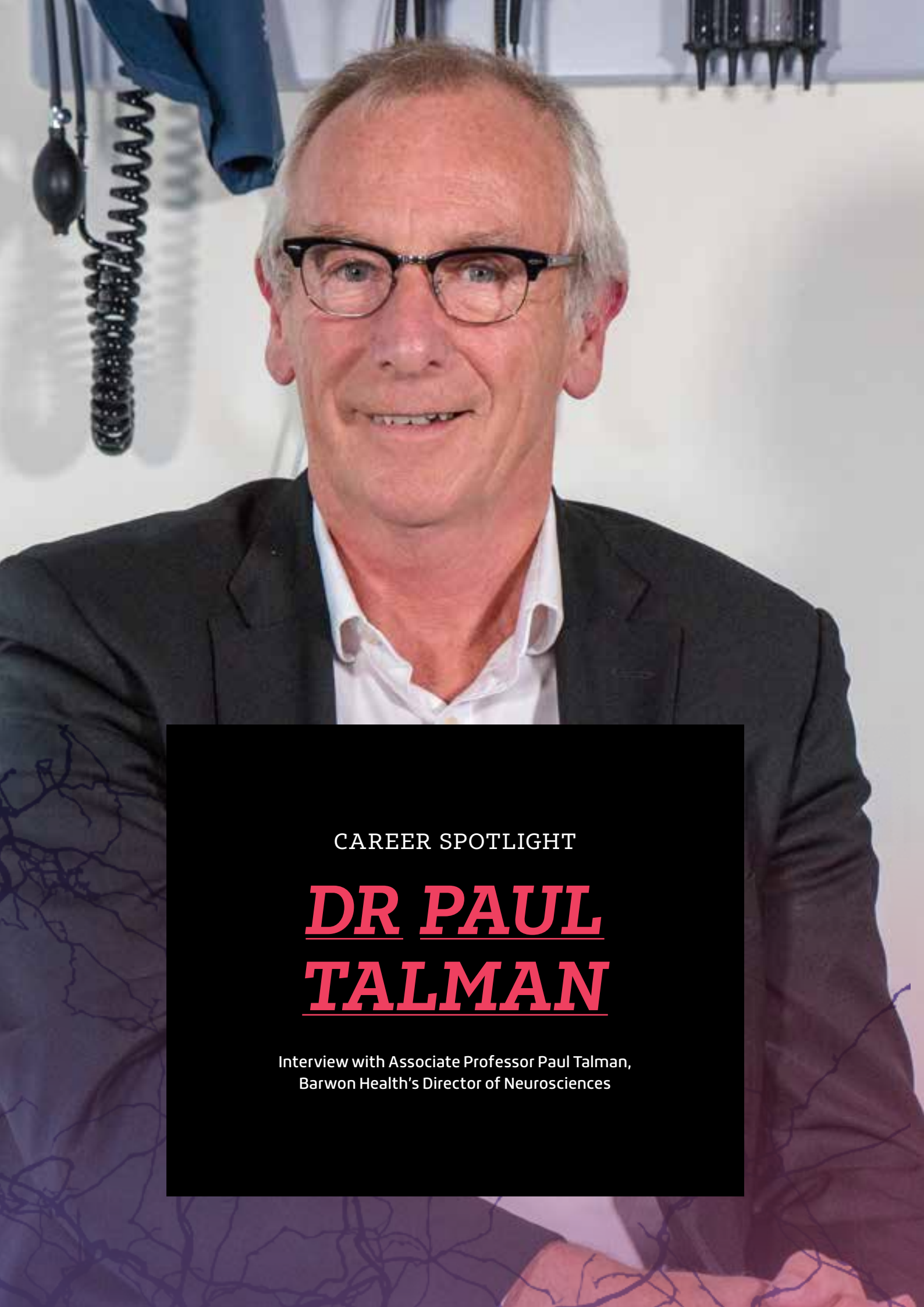
Department of Urology

Male Urethral Stricture Disease at Barwon Health: 10 years of patient presentations and outcomes in a single institution

Sita Murugappan, Matthew Hong, Eileen Moore, Richard Grills

Department of Urology

Urological telehealth – A dollars, sense and distance evaluation.



CAREER SPOTLIGHT

DR PAUL
TALMAN

Interview with Associate Professor Paul Talman,
Barwon Health's Director of Neurosciences

Spotlight On Neuroscience

The Department of Neuroscience at Barwon Health consists of teams of health clinicians with specific skills in managing neurological conditions, such as stroke, Parkinson's disease, multiple sclerosis (MS), motor neurone disease (MND), epilepsy/seizure and other diseases of the brain and nervous system.

Under the Direction of Associate Professor Paul Talman BSc MBBS PhD FRACP, the Neuroscience Department is actively involved in research and is participating in several large-scale global and national clinical trials, as well as investigator-initiated clinical trials that explore brain health, stroke, MS, headaches and migraines.

A state-of-the-art 18-bed specialised Neurosciences Ward at University Hospital Geelong recently opened – a first for regional Victoria – and will have a significant impact on treatment and research possibilities, expanding options across three sub specialties, acute stroke, acute neurology and neuro surgery.

Research Engagement

The Neuroscience Department collaborates with the Royal Melbourne Hospital and other centres nationally and internationally, undertaking clinical trials focused on acute stroke and the optimisation of thrombolytic therapy. The Neuroscience Department is also involved in investigating new therapies for MS, which are evolving rapidly. Due to their complexity, these therapies require a high level of testing and oversight and the department has a dedicated practice nurse who monitors patients receiving these and other experimental therapies.

Barwon Health is also the primary centre for the national MND research database, which has patients registered from all over Australia from the 13 major MND clinics. Facilitated by a NHMRC partnership grant, Associate Professor Talman's team is collaborating with genomic proteomics researchers and the MND Association to develop a patient-based app that will allow patients to enter information about disease progression and management. Important information collected via the app will be linked and available to patients and researchers, which will allow a more accurate clinical profile of MND patients and more targeted testing of new therapies.

Early Research Interests

Associate Professor Talman started his career in science and after completing a Bachelor of Science, he went

on to study Medicine, followed by Physician training. He later completed a PhD in basic Neuro Biology and Protein Chemistry at The Walter and Eliza Hall with Sir Gustav Nossal. Associate Professor Talman has maintained a strong interest in biological sciences and believes the key to finding effective therapies for neurological diseases is for clinicians to work more closely with laboratory scientists.

"That's the key. It's taking the clinical information putting it with the laboratory precision, information, picking out what's working and targets for effective therapies in progressive neurological disease."

One example of this type of collaboration is Associate Professor Talman's work with scientists from the Florey Institute in a project that aims to generate human induced pluripotent stem cells (iPS). iPS are cells generated in the laboratory, generally from skin cells. The iPS cells are reprogrammed so that they can form any cell type from the body, including motor neurons. The study will collect skin biopsies from people with and without MND. The skin cells will then be turned into stem cells, which provide an important tool to test drugs in the search for new treatments for MND.

Future research directions

Associate Professor Talman is keen to see more collaboration between clinicians and laboratory scientists in the future which he believes will lead to better understanding disease processes and effective therapies.

"In the future, we hope to build a research base that will be in acute stroke medicine but also in other sub specialties, potentially Parkinson's disease and epilepsy."

Advice for new researchers

Associate Professor Talman's advises new and emerging researchers to be very focused and persistent. His tip for staying motivated and on track is to have a short, medium and long-term strategy for research plans. Associate Professor Talman also recommends clinicians interested in research should seek out opportunities for collaboration in research activities.

"If I was to say anything to any emerging researchers, make sure that you have very effective collaborators that you're working with because it's very hard as a clinician to do it all on your own back."



SECTION

4

Barwon Health
Research Roundups



Aged Care

Research Focus

The Aged Care Team has been involved in a number of short and longer term projects around various aspects related to geriatric medicine, including delirium, frailty, falls, polypharmacy, continence, dementia, improving care of older people, quality of life in older people, and dignity.

Major Achievements July 2017-June 2018

The Aged Care Team has had three publications this year.

Staff

Simone O'Meara

Aged Care Assessment Service Manager

Improving service knowledge and access among older people from culturally and linguistically diverse (CALD) backgrounds with dementia. Diagnosis and access through e-interpreting.

Principal investigator with Janette Anderson and Gillian Caldwell as project officer.

Adrian Low

Geriatrician

Partnered pharmacy medication charting

Homer - Hospital Outreach Telehealth Medication Review project

Delirium in Hospitalised Elderly People.

Stephanie Julian

Geriatric Medicine Registrar

Principal Investigator. "A retrospective study on factors associated with poorer outcomes following a period of non-weight bearing after lower leg fracture in elderly patients".

Tasneem Haque

Geriatric Medicine Registrar

Principal Investigator. When is the best time to discuss the prognosis of dementia? A qualitative research study.

Khin Thu

Geriatric Medicine Registrar

Principal Investigator. "The role of Constant Personal Observation (One-to-one Special) in the management of delirium: A retrospective analysis".

Robert Stonehouse

Basic Physician Trainee. Principal investigator.

"Polypharmacy and inappropriate prescribing in regional aged care facilities."

Faridur Rahman

Geriatric Medicine Registrar

Principal investigator. "Narrative literature review: Does management in alcohol related brain injury differ from other type of dementia?"

Rosie Crone

Geriatrician

Pharmacological management of agitated delirium in the acute General Medicine Unit.

Incidence of and risk factors for faecal incontinence in an Australian nursing home

Dignity

Delirium

Femi Afolayan

Geriatric Medicine Registrar. Principal investigator.

Incidence of and risk factors for faecal Incontinence in an Australian Nursing Home.

Students

Mizhgan Fatima

Doctor of Philosophy Candidate

Brimbank Ageing Well Study: A prospective cohort Study of Osteosarcopenia and Frailty

With University of Melbourne and AIMSS (Australian Institute for Musculoskeletal Science)

Professional Affiliations

National Ageing Research Institute Collaboration with Aged Care Assessment Service

Anaesthesia

Research Focus

Research is an essential part of healthcare development. The Department of Anaesthesia, Perioperative Medicine and Pain Management Research Unit has collaborated with local and global organisations that share an ongoing interest in healthcare quality and safety, performance monitoring and aspects of medical ethics to ensure patients receive the most appropriate care and have the best possible outcomes before, during and after surgery. There are a number of clinical trials offered to patients of University Hospital Geelong with two new exciting trials for patients in 2018. Please have a look at our research website www.GAresearch.net for the latest publications and trial information.

Areas of clinical research currently being undertaken include:

- The link between pre-operative cognitive impairment, frailty, post-operative outcomes and healthcare utilisation.
- Predictors of post-operative cognitive dysfunction (POCD)
- Therapeutic interventions to reduce the incidence of POCD
- The association between anti-emetics and impaired bowel function after colorectal surgery
- Thromboembolic complications associated with antifibrinolytic therapy in trauma surgery
- Regional anaesthesia for rib fractures

- Analgesia administration following caesarean section
- Iron transfusion and anaemia in cardiac surgery
- The association between perioperative steroids, wound healing and diabetes
- Paediatric fasting and dehydration
- Restrictive transfusion practices in cardiac surgery
- Ketamine for the prevention of chronic post-surgical pain

From one of our trial participants: "This experience has allowed me to give back, what a professional and caring team".

Our website www.GAresearch.net provides the most up-to-date information regarding our latest publications and active clinical trials.

Major Achievements July 2017-June 2018

- The BALANCED multicentre clinical trial has been completed, with significant participant recruitment occurring at Barwon Health.
- The PADDI multicentre clinical trial is actively recruiting, with more than 100 participants at Barwon Health alone.
- The locally led PANACEA trial, funded cooperatively by an NHMRC CRC grant, a Barwon Health scholarship grant, and Departments of Anaesthesia and Surgery research funds, has passed the halfway point for

participant recruitment, with preliminary results presented at international meetings. Funding from the Deakin Medical and Molecular Research SRC and the Deakin School of Medicine has been obtained to conduct exploratory biomarker analyses on plasma samples and conduct additional post-operative neuropsychological assessments.

- Clinical audit activity has revealed excellent local perioperative outcomes, specifically addressing areas, such as adherence to enhanced recovery after surgery protocols and pre-operative haemoglobin optimisation. Results of audit activity continue to inform clinical practice and guidelines, with demonstrable improvements in transfusion practice, analgesia administration and paediatric fasting times.
- Two of our research fellows have successfully obtained postgraduate degrees: Doctorate (Deakin University) and Masters (Harvard University).
- A PhD candidate has been awarded best postgraduate thesis by the Deakin University School of Psychology
- A Masters student has been awarded the faculty prize for best honours project by the Dean, Deakin University School of Psychology.
- Our publication track record continues to grow. A list of our unit's recent publications is available online.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- We welcome our unit's first student from the Deakin University School of Medicine's new honours program.
- Commence recruitment for the multicentre ROCKET and ITACS trials. Along with local investigator-initiated randomised clinical trials, more than 300 participants are expected to be recruited to perioperative clinical trials in the 2018 calendar year.
- Funding is being sought for two new investigator-initiated trials, further exploring transfusion practice for non-anaemic iron deficiency and the use of ondansetron in bowel surgery.

Staff

Dr Andrew Marriott

Staff Specialist Anaesthetist
Clinical Trials, Anaesthesia
Head of Research Unit
Principal investigator, PANACEA
Collaborator – IMPACT SRC, ANZCA CTN

Adjunct Professor Steve Bolsin

Staff Specialist
Anaesthetist
Quality Improvement,
Ethics
Expert in Quality Assurance, delivering invited lectures at international meetings and symposia.

Dr Eileen Moore

Research Coordinator

Dr Melissa Formica

Research Fellow

Dr David Skvarc

Lecturer, Deakin University

Ms Rachel Fiddes

Research Coordinator

Students

David Skvarc

PhD
POCD

Melissa Formica

PhD
Neuropsychology

Jhordaine Charlton

Masters
Total Intravenous Anaesthesia

Professional Affiliations

Deakin University - School of Medicine,
School of Psychology
IMPACT SRC
Austin Hospital
Monash University

Barwon Medical Imaging (BMI)

Research Focus

Barwon Medical Imaging (BMI) is the medical imaging service for Barwon Health and provides high quality accessible imaging services and interventional radiology services for Geelong and the surrounding region. BMI provides imaging services and expertise for a large number of research studies, particularly in the area of oncology. We are currently involved in providing the medical imaging and the specialist reporting required for more than 50 trials. This involves a huge amount of co-ordination, planning and resources.

BMI's main research focus is in the area of new applications for interventional radiology. The primary research projects currently being undertaken are several randomised controlled trials assessing the efficacy of endovascular embolisation of abnormal neovascularity associated with osteoarthritis and plantar fasciitis as a pain relieving treatment for these common conditions. Dr Steve Landers was recently successful in obtaining a RANZCR grant to support this project.

Other recent projects include a retrospective audit of ultrasound for query appendicitis and our nuclear medicine specialists have presented a number of posters and oral presentations related to FDG PET scans, PSMA scans and radioiodine treatment for thyroid cancer.



Major Achievements July 2017-June 2018

Current Ethics Approved Projects

Microembolisation of abnormal blood vessels in people with knee osteoarthritis.

Status: recruiting for RCT, pilot study recruitment complete and follow-up in process.

Microembolisation of abnormal blood vessels in people with plantar fasciopathy.

Status: recruiting for pilot study.

An audit of the safety and effectiveness of microembolisation for abdominal bleeding.

Status: data collection and analysis complete, manuscript pre-final.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Completion of recruitment for knee osteoarthritis embolisation study
- Recruitment for plantar fasciitis trial

Staff

Dr Steve Landers

Interventional Radiologist
Project Lead for Micro Embolisation Studies

Dr Andrew Healy

Radiology Registrar
Micro Embolisation Studies

Dr Ben Harrison

Radiology Registrar
Micro Embolisation Studies

Dr Shane Lee

Radiologist / Nuclear Medicine Physician
Nuclear Medicine Research

Dr Dickson Ma

Director of Nuclear Medicine
Nuclear Medicine Research

Grants 2017-2018

Grants	Value
The Royal Australian & New Zealand College of Radiologists (RANZCR) – 2017 RANZR Grant Evaluating transcatheter arterial embolisation for improvement of pain in Osteo-arthritis of the knee – a randomised controlled trial. Dr Steve Landers 2017-2018	\$29,000

Professional Affiliations

Collaboration with B-CORE (Barwon Centre for Orthopaedic Research and Education).



We are currently involved in providing the medical imaging and the specialist reporting required for more than 50 trials.

Cancer Services

Research Focus

Barwon South Western Regional Integrated Cancer Service (BSWRICS): Evaluation of Cancer Outcomes Barwon South West (ECOBSW) Registry.

Cancer is the leading cause of death in Victoria with an average of 80 new diagnoses every day. The highest incidence of cancer occurs within the lung, bowel, prostate, breast, and melanoma tumour streams. The Barwon South Western Regional Integrated Cancer Service's vision is to improve patient experiences and outcomes by connecting cancer care and driving best practice. Our strategic plan responds to the challenges of a growing and ageing community with an increasing need for cancer care. Providing evidence-based data to guide improvement strategies is a priority. The ECOBSW Registry currently holds diagnostic, treatment and outcome data for more than 13,000 newly diagnosed persons across the Barwon South West region. This report highlights the many ways the registry supports health services and communities within our region, particularly in terms of health service planning and redesign. Quality of clinical care has also been a major focus with the development of quality clinical indicators and optimal care pathways.

Medicine specialists have presented a number of posters and oral presentations related to FDG PET scans, PSMA scans and radioiodine treatment for thyroid cancer.

Major Achievements July 2017-June 2018

The Evaluation of Cancer Outcomes Barwon South West registry collects, collates and records data on all newly diagnosed cancer patients in the Barwon South West Region. Data includes diagnostic information,

treatment and outcomes. This financial year has seen the completion of data for seven years up to 2015.

Quality of care indicators were reported showing the transition of care over the years. Patterns were reported and analysed by working parties for the tumour streams of breast, colorectal and lung cancer. Optimal care pathways were assessed for the tumour streams of colorectal, lung, upper gastrointestinal, prostate and breast. The evidence-based data has supported changes to the way care is received with focuses on waiting times for surgery, chemotherapy and radiotherapy. Patients in the Barwon South West often have long distances to travel for care and ways in which the service could support these patients was assessed. The database currently has 13,246 patients' treatment and care journeys recorded.

In The News July 2017-June 2018

Victorian Integrated Cancer Services 2017: Chair of the Organising Committee Mrs Sue Riches <http://vics2017.org/>

Barwon South West Integrated Cancer Services Newsletter www.bswrics.org.au/who-we-are/reports-publications#bswrics-newsletter

Awards Received July 2017-June 2018

MJ Rogers, L Matheson, B Garrard, V Mukaro, S Riches.

Evaluation of Cancer Outcomes Barwon South West Registry.

Certificate of Achievement, Research, Education and Training for Excellence.

Barwon Health Quality Awards, Geelong

G Pitson, LM Matheson, B Garrard, MJ Rogers.

Evaluation of Cancer Outcomes Barwon South West Registry.

Best Oral Presentation in Session. Clinical Oncology Society of Australia

Brisbane

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

The following financial year will see the completion of data collection for 2016 and 2017 giving nine years of data, allowing analysis of treatment and care and the impact on outcomes. Patient record information will be available on approximately 17,000 persons. Quality performance indicators and optimal care pathways will be mapped for the years 2009 to 2017. The next phase of the development will focus on increasing clinical engagement and access to regional data by collaborative researchers, clinicians and health services.

Staff

Associate Professor Lucy Cuddihy

Chair

Director of Nursing

Adjunct Professor Lucy Cuddihy was appointed to the position of Chief Nursing and Midwifery Officer at Barwon Health (Geelong) in 2004 and has an Adjunct Professorial appointment with Deakin University, School of Nursing and Midwifery. As part of her current appointment, she has executive responsibility for several governance committees, workforce planning and the integrated clinical education and training department.

Associate Professor Philip Campbell

Clinical Director

Haematology

Associate Professor Philip Campbell is Director of Andrew Love Cancer Centre and is a general haematologist with broad training and experience in malignant and non-malignant haematology. His main clinical interests are malignant haematology (leukaemia, lymphoma, myeloma and autologous stem cell transplantation) and clinical research, particularly multi centre collaborative research in malignant haematology.

Dr Graham Pitson

Interim Clinical Director

Radiotherapy

Dr Graham Pitson is the Director of Radiation Oncology at the Andrew Love Cancer Centre and has been at Barwon Health since 2007. He is involved particularly in treating breast, lung and brain cancers with radiotherapy. In addition, he is working to improve data collection across the region to improve cancer care for all patients in and around Geelong.

Mrs Sue Riches

Program Manager

Integrated Cancer Services

Barwon South Western Regional Integrated Cancer Service (BSWRICS) is one of nine Integrated Cancer Services in Victoria. BSWRICS works in partnership with regional health services to undertake coordinated planning, systems integration and improvement of cancer services in the region. Her responsibilities include overseeing development and implementation of strategic planning, facilitating the implementation of priority projects to improve cancer services across the region, leading, developing and improving program planning and reporting associated with organisational contracts and schedules.

Ms Leigh Matheson

Health Information Manager

Health Information Data

Ms Leigh Matheson is one of the original investigators that initiated the concept and creation of the registry in the Barwon South West. Now in her tenth year with BSWRICS, Leigh has established the extensive Data Dictionary pertaining to the content of the Registry and works towards initiating collaborations

and communicating findings of the various studies established from the registry.

Associate Professor Margaret Rogers

Data Analyst/Writer

Research

Associate Professor Margaret Rogers has worked in research at Barwon Health for 23 years and has over 140 manuscripts in national and international journals. A trained statistician that has moved her career into data analytics to support the health service. Her interest in regional/rural medicine and health services is evident in her published work for the registry.

Ms Brooke Garrard

Data Collection Officer

Health Information Data

Ms Brooke Garrard has a pivotal role in the data collection from all major Health Services in the region. Many of the individual patient records are able to be collected both electronically and manually, requiring repeat visits to health services in the South West Region. Data is collected, verified and included into the ECOBSW Registry by the team.

Dr Violet Mukaro

Ethics Officer

Cancer Services

Dr Violet Mukaro began her research career in clinical laboratory studies and transferred her skills and interest in oncology to becoming the Ethics Officer of the registry. Her role includes ensuring the ECOBSW Registry is compliant with legislation and submission and maintenance of local Ethics requirements.

Mrs Heather Cameron

Service Development Manager

Strategist for redesigning and changing models of treatment and care

Mrs Heather Cameron holds the lead role for improving and connecting cancer treatment and care across the Health Services of the Barwon South West Region. Heather uses her prior knowledge of many different areas of nursing including palliative care, telehealth to name a few to drive her vision for improvement.

Mrs Rebecca Kress

Project Officer

Optimal care pathways for treatment and care of those newly diagnosed with cancer

Individual projects are coordinated by Ms Rebecca Kress, who has driven the investigation into optimal care pathways for cancer treatment in the region.

Mrs Angela Burns

Administration

Team coordination

Office administration

Students

Brooke Garrard

Monash

Masters of Public Health

Professional Affiliations

- Barwon Health (University Hospital Geelong)
South West Healthcare Camperdown
- St John of God Geelong
- Colac Area Health
- South West Healthcare Warrnambool
- Western District Health Service
- Geelong Private
- St John of God Warrnambool
- Portland District Health
- Epworth Geelong
- Icon HealthCare (formerly Epworth Warrnambool)

Cardiology

Research Focus

Graft or Native Intervention in Patients with prior CABG: Insights from a Large Multicentre PCI Registry.

Aims

Percutaneous coronary intervention (PCI) of bypass grafts is associated with worse outcomes when compared to native coronary intervention due to the higher greater procedural risks, lower technical success rates and higher complication rates. Despite this, PCI is the most common revascularisation

Strategy in patients with prior coronary artery bypass graft surgery (CABG): we aimed to analyse the contemporary patterns of PCI in CABG patients, identify factors associated with PCI in native coronaries versus bypass grafts, and examine their procedural, in-hospital, and 12-month clinical outcomes.

Methods and Results

The Cardiology Department analysed data from N=1459 patients with prior CABG who underwent PCI at six PCI centres in the Melbourne Interventional Group (MIG) registry from January 2005 through to December 2015. Factors associated with native versus bypass graft PCI were examined and independent predictors of 12-month mortality were identified using logistic regression modelling.

During the study period, PCI was performed on 490 (33.6%) bypass grafts and 969 (66.4%) native coronary arteries in patients with prior CABG. The majority of grafts intervened were saphenous vein grafts (87.8%), and most bypass graft target lesions were located in the body of the graft. Patients who underwent bypass graft PCI were older, more likely to have had a prior MI and peripheral vascular disease. In addition, graft PCI patients were further along from their bypass surgery.

Compared with patients who underwent native vessel PCI, graft PCI patients were more likely to undergo urgent or rescue PCI and receive glycoprotein IIb/IIIa inhibitors. As expected, more chronic total occlusions were intervened in native coronaries (5.0% vs. 0.4%; $p < 0.01$). There were higher rates of perforation (0.9% vs. 0.2%; $p < 0.01$) and no-reflow (8.4% vs. 1.8%; $p < 0.01$) in patients undergoing bypass graft PCI, while dissection rates were higher in the native coronary artery PCI group (5.0% vs. 2.0%; $p < 0.01$). There was no difference in the rate of periprocedural MI, in-hospital MACE or mortality. On multivariable analysis, older age, renal disease, cardiogenic shock, cerebrovascular disease and acute coronary syndromes were all associated with higher mortality at 1 year. Graft PCI was not (odds ratio: 1.14, 95% confidence interval: 0.68 to 1.91).

Conclusions

Most PCIs performed in prior CABG patients are done in native coronary artery lesions. However, compared with native coronary PCI, bypass graft PCI was not independently associated with higher 12-month mortality.

Trends in vascular access for patients undergoing percutaneous coronary intervention in Australia. A report from the Melbourne Interventional Group (MIG) Cohort.

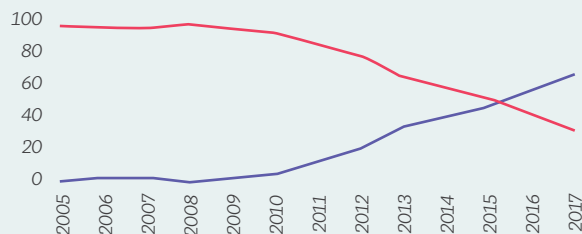
Background: We sought to examine the rate of adoption of the trans-radial approach (TRA) amongst acute coronary syndrome (ACS) and non-ACS patients undergoing percutaneous coronary intervention (PCI) and to evaluate whether it is associated with superior clinical outcomes.

Methods: Temporal trends in TRA utilisation between 2005 and 2017 were assessed in 26,896 patients undergoing PCI in ACS (n=18,025) and non-ACS (n=8,871) patients from the Melbourne Interventional Group registry. Clinical and procedural variables as well as clinical outcomes were compared between TRA and femoral access (FA). The primary outcomes

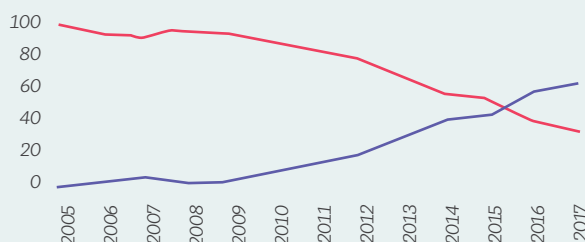
were in-hospital bleeding and 30-day major adverse cardiovascular events (MACCE; death, myocardial infarction, target vessel revascularisation and stroke).

Results

ACS: TRA TFA



Non-ACS: TRA TFA



The utilisation of TRA increased significantly from 3.3% (ACS) and 1.4% (non-ACS) in 2005 to 67% and 65.0% respectively by 2017 (p -for trend <0.01). TRA was more likely to be used in ACS patients for urgent or rescue PCI and in those who had received thrombolysis ($p<0.01$). There were significantly lower in-hospital bleeding rates using TRA compared to FA in both ACS (1.0% vs 2.4%, $p<0.01$) and non-ACS (0.3% vs 1.1%, $p<0.01$) cohorts. Multivariable analyses showed vascular access (FA vs. TRA) was not an independent predictor of 30-day MACCE in ACS (OR 1.01, 95% CI 0.85-1.21) and non-ACS (OR 0.95, 95% CI 0.69-1.32).

Conclusions: Across a 13-year period, there was a marked increase in trans-radial PCI in Victoria for both ACS and non-ACS patients. Trans-radial PCI was associated with significantly lower bleeding rates but equivalent MACCE rates.

Long Term Follow Up of Bioabsorbable Scaffolds: A Single Centre Experience.

Background: Bioabsorbable Vascular Scaffolds (BVS) provide temporary drug-eluting vessel support and gradual resorption of the polymer backbone facilitating vessel healing without a permanent prosthesis following coronary intervention. Recent data of late and very late adverse events continue to emerge.

Methods: Observational retrospective study, in a single, tertiary Australian centre of patients treated with everolimus-eluting Absorb BVS from May 2014 to June 2015. Safety and efficacy outcomes were evaluated at 12 months and longer term (> 2 years).

Results: A total of 15 patients underwent BVS implantation, and were followed up for a mean of 3.3 years. 86.7% were male, 13.3% were diabetic and mean age was 53.5 \pm 13.9 years. None had prior myocardial infarction. With regards to initial clinical presentation, 60% had acute coronary syndromes. Device success was achieved in 93.3% of cases, with 18 devices implanted in total. Average length of stay was 2.1 days and there were no in-hospital complications. Hospital readmission rate was 26.7% at 12 months and 40.0% out to 2.7 years. There were three cases of moderate or severe in-stent restenosis on long term follow up, and a case of very late scaffold thrombosis 32 months post implantation, presenting as an ST-elevation myocardial infarction.

Conclusions: In this case series, Absorb BVS implantation was associated with a modest incidence of adverse events, mainly on longer term follow up. This highlights the need for regular monitoring of patients implanted with this type of device.

Major Achievements July 2017-June 2018

- Richard Hallows Prize for excellence in postgraduate teaching. Cardiologist, Dr Adam Hutchison shared this Award with Dr Christine Somerville and Dr Tom Reade.
- Geelong Clinical School Student Committee: Outstanding Clinician - Teacher, Year 3 2017. Cardiologist, Dr Adam Hutchison.

Looking Forward

Anticipated Highlights In The Next 12 Months - July 2018

- Associate Professor John Amerena has been asked by the Medical Journal of Australia to review the new National Heart Foundation (NHF) guidelines for the management of heart failure prior to their publication. Additionally, he was on the committee that wrote the first ever NHF guidelines for the management of Atrial fibrillation. These were released in August this year at the Cardiac Society. This is an honour recognised internationally, nationally and locally within his field.
- "Semaglutide Obesity Cardiovascular Outcomes Trial EX9536-4388", Karen Fogarty (Cardiology Research Unit Manager) has been invited to fulfil the role of National Study Co-ordinator, and will sit on the global study Co-ordinator Steering Committee.
- The unit will also fulfil the role of National Lead Co-ordinating Site.
- This is an outstanding achievement and honour, both for Karen and the research unit.

Community Health

Research Focus

Promoting Better Mental Health: Implementing a screening and referral pathway for community health clients in Geelong” in conjunction with Deakin University.

Principal Investigators: Kate Ingwersen, Brooke Bufton, Leo Coolhaas and Dr Danielle Hitch

Contact Information: c/o Dr Danielle Hitch, Occupational Science and Therapy, Deakin University, Waterfront Campus, 1 Gheringhap Street, Geelong, 3217

Many older Australians have experienced mental illness during their lifetime, and approximately between 2-4 per cent meet the criteria for mood and/or anxiety disorders within a 12 month period (Sutherland et al, 2014). As the Australian population ages, the number of older Australians experiencing these high prevalence disorders is likely to increase. Depression, anxiety or psychological distress is correlated with comorbidity, functional disability and service use in older people (Anderson et al., 2013), all of which have an impact on the health system. While older people make up the majority of people using primary care services, they are generally reluctant to use mental health services, and therefore their mental health needs may remain unmet and become more severe (Stewart et al., 2015). This project will add a service implementation/knowledge translation aspect to the existing literature about the use of K10 as a screening tool in primary care.

Progress during 2017/2018: progressing ethics application.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Investigating conferences to present 'Barwon@ home POD' initiative
- Awarded 'Advancing Practice in Allied Health Workforce Funding Program 2018-2019 (Autism Spectrum Disorder) by DHHS
- Lauren Woodall awarded scholarship by Safecare Vic to attend 'International forum for Quality & Safety in Healthcare' in September 2018

Students

Lauren Woodall

Masters Public Health

La Trobe University



Healthlinks And Personalised Care

Research Focus

Healthlinks is a DHHS co-design pilot project with health services to explore alternative funding models for those patients in our community who have complex medical and psychosocial needs and who present frequently to hospital.

The Healthlinks research is a multi-site initiative with research supported by CSIRO. The approach to the evaluation is the use of all admitted data, patient survey and service level data. The research focus will evaluate a number of different models of care across the participating hospitals providing an intervention and also adding to the evaluation a number of control sites. The Personalised Health Care initiative approved in 2013 alongside the HARP team provides the key initiatives for the Healthlinks intervention at Barwon Health.

The Personalised Health Care pilot project providing remote patient monitoring for chronic disease to enhance patient health literacy and self-management was published in the Journal of Telemedicine and Telecare in May 2018.

Major Achievements July 2017-June 2018

Major achievements include the commencement of the research approach for the Healthlinks pilot project, approved in July 2017. Patient survey commenced in January 2017 and data collection has commenced with monthly reporting to the DHHS and CSIRO in regards to progress and interventions recorded.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

It is expected that the Barwon Health approach to better supporting clients in our community setting as part of the Healthlinks strategy will see the ability to further invest in community-based supports to keep people well and avoiding hospital admissions. The evaluation approach and partnership with the DHHS and CSIRO will provide evidence of the benefits of the interventions to support the development of models of care to meet our patient needs. The outcomes of the Personalised Health Care pilot are expected to be accepted for further publication in 2018/2019 with papers in draft that address the economic analysis of the pilot alongside a clinical paper with a focus on diabetes.

Staff

Healthlinks - David Mead

Co-Director Community Health Rehabilitation and Palliative Care and Allied Health Director
Site Principle Investigator

Ms Jo Stevens

Manager, Chronic and Complex Care
Co-Investigator and Project Lead

Personalised Health Care - Ms Jo Stevens

Manager, Chronic and Complex Care

Professor Mark A Kotowicz

Professor and Director, Endocrinology and Diabetes
Endocrinology Advisor and Investigator

Dr Christopher L Steinfort

Jennifer Bell

Respiratory Liaison Nurse

Janette Byrnes

Manger Drug and Alcohol

Stephanie Bruce

Diabetes Educator Personalised Health Care
Team member

Sarah Carter

Community Health Nurse Corio
Team member

Claire Hunter

Tele health Coordinator
Team member

Chris Barrand

Manger Aged Care
Team member

Robyn Hayles

Previous Chief Operating Officer
Principle investigator



Hospital Admission Risk Program (HARP)

Research Focus

HARP is currently engaged in a research project titled Exploring consumer and clinician experiences of a regional care coordination outreach service for people living with complex needs (Barwon Health Human Research Ethics Committee Reference: 16/144).

Staff are particularly interested in advancing best practice models in consumer-centred care, care coordination and system navigation, as well as championing health literacy. Their research approach includes an inclusive research methodology focus with a consumer expert as a core member of the research team. This enables research to be grounded in authentic experiences and promotes critical reflexivity throughout all stages of the research process.

Major Achievements July 2017-June 2018

- Completion of data collection from focus groups
- Data analysis of the focus group data
- Oral Paper Presentation at the Occupational Therapy Australia VIC-TAS Regional. Conference in Melbourne in June 2018

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

The HARP team is planning to recruit a Deakin University Bachelor of Occupational Therapy (Honours) student in 2019 to assist with the HARP research project. They will be involved in the completion of face-to-face consumer interviews, data analysis and

contributing to the final report. It is anticipated they will submit a peer-reviewed journal article manuscript for publication. The team plans to complete the HARP research project by December 2019.

Staff

Ms Jo Stevens

Manager, Chronic and Complex Care
Member of the HARP Research Team.

Dr Robert Pereira

HARP Team Leader / Occupational Therapist
Enablement strategies for consumer-centred care, social inclusion, systemic advocacy, critical policy analysis, occupation-focused practice, inclusive occupational therapy.
Principal Researcher, HARP Research Team

Mr Tim Brown

HARP Care Coordinator / Credentialed Mental Health Nurse no/1933.

Holistic and client-centered approach to care delivery, recovery orientated practices, evidence-based practices, and mental health issues across the life spectrum, drug and alcohol support(s), mental health triage.

Member of the HARP Research Team

Ms Janette Byrnes

Manager, Barwon Health Drug and Alcohol Service
(Former Acting HARP Coordinator)

Professional Affiliations

Dr Robert Pereira is Adjunct Associate Professor of Occupational Therapy with the School of Public Health and Nutrition, Faculty of Health, University of Canberra.

Nephrology

Research Focus

- Extended hour haemodialysis (nocturnal haemodialysis in the home)
- The effect of ultrafiltration rate on morbidity and mortality in patients undergoing haemodialysis
- “Green: dialysis, including –
Use of “SteriPlus” machine to reduce waste and recycle plastics used in the dialysis unit
Use of plastic waste from the dialysis unit to make more durable, flexible concrete
- Participation in PDDOPPS: World-Wide multicentre study of practices and outcomes in peritoneal dialysis
- Participation in clinical trials through the Australian Kidney Trials Network (AKTN), including REDUCTION study into line-related infection in dialysis patients.
- Use of plastic cannulae to optimise successful early utilisation of AV fistulas in haemodialysis.
- Empowering home haemodialysis patients with vascular access ultrasound.

Major Achievements July 2017-June 2018

Ongoing research as outlined elsewhere in this report, with particular interests in extended-hour dialysis, the role of ultrafiltration rate on outcomes in haemodialysis, dialysis vascular access and environmental sustainability in the provision of dialysis.

Successful Renal Study Day conducted in October 2017, and again in May 2018, and attended by nursing staff and allied health from Geelong and South West Victoria.

Partnership with School of Engineering, Deakin University, Royal Melbourne Hospital Department of Nephrology, and Environmental Sustainability Special

Interest Group (Victorian Renal Health Network) to promote research in use of dialysis plastic waste in novel concrete Vascular Access Workshop conducted in November 2018 and attended by dialysis nurses from across Victoria.

In The News July 2017-June 2018

- “Deakin University research turning plastic hospital waste into concrete building materials”. Olivia Shying, Geelong Advertiser. October 25, 2017
- ABC Radio Darwin, Interview, Thursday Sept 7 2017 (Agar JWM)
- Media coverage for plastic waste in concrete;
- Create, magazine of Engineers Australia, our story, March 9, 2018
- Waste + Water Management Australia, Magazine, page 20-21, Jan 2108
- Material Performance Magazine, Jan 2, 2018, Houston, USA
- New Zealand Construction News (NZCN), Magazine, Jan 2018, NZ
- Inovatif Kimya Dergisi, Turkish Journal of Innovative Chemistry, Jan 2018, TURKEY
- American University of Sharjah, Jan 2018, UAE
- Road & Infrastructure Australia Magazine, Jan 2018
- Engineers Australia, Oct 31, 2017
- Architecture AU, Oct 27, 2017
- Concrete Institute of Australia, News bulletin 44: Nov 07, 2017
- Institute of Public Works Engineering Australasia, IPWEA, Oct 31, 2017
- Recycling Today Magazine, Nov 09, 2017, USA

- Construction & Demolition Recycling Magazine, Nov 09, 2017, USA
- Texas Ragtime, Feed aggregator, Nov 09, 2017, USA
- Association for Sustainability in Business, Nov 01, 2017
- Petroleum Engineering Archives, Oct 27, 2017, UK
- Waste Today Magazine, Nov 9, 2017, USA
- Construction Sales, Nov 02, 2017
- Engineering360, IEEE GlobalSpec, Oct 27, 2017
- Cobute, Concrete Building Technology, Nov 10, 2017
- JOBSITE, Nov 05, 2017
- Sustainability Matters, Oct 30, 2017
- Scrap Metal News, Nov 9, 2017, USA
- The Concrete Producer, Nov 13, 2017
- Surf Coast Times, Nov 29, 2017
- Concrete Construction, Nov 13, 2017
- The Queanbeyan Age, Nov 06, 2017
- Phys.Org, Oct 27, 2017
- Giatec Scientific, Concrete Hub, Nov 20, 2017
- Redbook, Nov 2, 2017
- Civil4M, Engineering & Technology News, Oct 28, 2017
- The Wimmera Mail-Times, Nov 06, 2017
- Waste Management Review, Oct 31, 2017
- Inside Waste, Oct 27, 2017
- Inside Construction, Oct 27, 2017
- Nephrology News and Issues, NNI, US Nephrology Industry Journal, March 5, 2018
- Healio News, Nephrology News & Issues, March 6, 2018
- Nephrology Associates of Northern Illinois and Indiana, NANI, March 5, 2018
- Build with Rise, story, March, 2018
- The Sydney Morning Herald Sun, Nov 06, 2017
- The Courier, Nov 06, 2017
- Illawarra Mercury, Nov 06, 2017
- Central Western Daily, Nov 06, 2017
- Daily Liberal, Nov 06, 2017
- The Northern Daily Leader, Nov 06, 2017
- Herald Sun, Oct 25, 2017
- Public Now (AU), Oct 25, 2017
- The Courier-Mail, Oct 25, 2017

- The Advertiser, Oct 25, 2017
- Cairns Post, Oct 25, 2017
- The Mercury, Oct 25, 2017
- Gold Coast Bulletin, Oct 25, 2017
- Ntnews.com.au, Oct 25, 2017
- The Daily Telegraph, Oct 24, 2017

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

Ongoing research interests as outlined above

Instillation of SteriPlus machine in South Geelong Dialysis Unit: this machine will macerate infectious plastic waste, allowing subsequent recycling of the plastic (including for use in novel concrete). This is part of a conjoint study with the School of Engineering, Deakin University, and Ongoing participation in REDUCTION and studies

Participation in Registry of Kidney Diseases

Study coordinated by Professor Karen Dwyer: An analysis of referral patterns to a regional nephrology clinic from general practice: has the introduction of a standardised referral guideline diminished late referrals for chronic kidney disease?

Staff

Professor John Agar

Nephrologist

Extended hour dialysis

Green dialysis

Effect of ultrafiltration rate on dialysis-associated morbidity and mortality.

Ms Rosie Simmonds

Nurse Practitioner

UNM Home Dialysis Therapies

Portable ultrasound use in the home for dialysis patients

Nocturnal haemodialysis.

Dr Shi Zhou Choo

Renal Advanced Training Registrar 2017

Outcomes in Nocturnal Dialysis.

Ms Vicki Smith

Renal Vascular Access Nurse

Use of plastic cannulae to optimise long term outcomes of AV fistulae.

Associate Professor Christine Somerville

Nephrologist

Acute Kidney Injury.

Dr Justin Davis

Advanced training registrar

Lithium nephrotoxicity.

Dr Michael Desmond

Nephrologist

Lithium nephrotoxicity.

Professional Affiliations

Professor John Agar

School of Engineering, Deakin University

Victorian Renal Clinical Network – Environmental sustainability special interest group (ESSIG)

Richard Knight

Victorian Renal Clinical Network – Environmental sustainability special interest group (ESSIG).

Victorian Renal Clinical Network – Hub Reference Group

Health Purchasing Victoria Product Reference Group (HD contract)

Victorian Renal Clinical Network – KPI Committee (Renal Insight Group)

Rosie Simmonds

The Home Network

Health Purchasing Victoria Product Reference Group (PD contract).

Christine Somerville

Victorian Renal Clinical Network – Leadership Group.

Tracey Mandic

Victorian Kidney Transplant Committee

Occupational Therapy

Research Focus

The Occupational Therapy Service at Barwon Health has a planned progression of research and service improvement projects from scoping, to data collection and analysis to communication via presentations and publication.

The following research projects have progressed as follows:

Publication:

- Student Education

Conference Presentations:

- Competency Training Package for the XSENSOR

Data Analysis:

- Evaluation of domestic living skills group in inpatient rehabilitation setting
- Development of Brain Training program in GEM inpatient unit
- Development of a therapeutic garden in an inpatient rehabilitation setting.
- Development of pressure risk screening tool for acute occupational therapists
- Development of acute neurology assessment tool
- Development of occupational therapy delirium pathway
- Development of activity box resource
- Development of cardiothoracic resource for staff and student orientation

Data Collection:

SENse Project

Grant application:

Feasibility of allied health staff using the K10 as a screening tool in primary care

Thirty-eight topics were presented to Deakin University for fourth year research projects in 2017. This indicates an interest in more clinicians participating in research. Nine of these topics were taken up by Deakin University students and form the basis of ongoing quality improvements activities

Major Achievements July 2017-June 2018

Innovation and Evaluation Projects

- Development of competency training package for the XSENSOR (Johannah Menzies). This was later presented at the South West Allied Health Conference in May 2018, and will be developed as an online training package to roll out training for relevant occupational therapy staff
- Evaluation of domestic living skills group in inpatient rehabilitation setting (Erin O'Shanassy)
- Development of Brain Training program in GEM inpatient unit (Bonnie Edwards)
- Development of a therapeutic garden in an inpatient rehabilitation setting (Leanne Wilson)
- Development of pressure risk screening tool for acute Occupational Therapists (Monique Walsh)
- Development of acute neurology assessment tool (Denae Barr)
- Development of occupational therapy delirium pathway (Cassandra Demetrios)
- Development of activity box resource (Rebecca Martin)
- Development of cardiothoracic resource for orientation of staff and students (Todd Curtis)

SENSe Implement Research Trial – Continuing Phase 1 Evaluation of Usual Care

- Continued participation in this multicentre site trial led by Florey Institute/LaTrobe University on knowledge translation of evidence-based sensory rehabilitation following stroke
- Commenced in April 2016, still in phase 1 evaluating usual care
- Outcome measures for 12 patients anticipated by the end of August 2018, entering phase 2, evaluation of SENSe Rx.

Student Education Model

- Published in a number of Australian and International journals.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

Over the next 12 months, the occupational therapy service will continue to formalise a research plan aligned with the Barwon Health research plan that focuses on building capability and capacity, promotes a culture of research and innovation through partnerships with universities and other health agencies.

Focusing on research benefits consumers and occupational therapy practice as a whole across Barwon Health, specifically in the areas of assistive technology, mental health, cognition, pressure care, hand therapy, health promotion and utilisation of groups in rehabilitation.

The following research projects should have progressed as follows:

Publication:

- Student Education Model

Conference Presentations:

- Assistive Technology

Data Analysis:

- SENSe Project
- Therapy groups in inpatient rehabilitation
- Distal radial fractures- clinical practice guidelines/ patient experience

Data Collection:

- Development of a care pathway around the use of the K10 in community health

Staff

Sue Rowan

Manager, Occupational Therapy

Management, Clinical Education

Chairperson of Deakin University Occupational Therapy Advisory Board

Co-author with Deakin University staff on a number of recent publications

Johannah Menzies

Grade 2, Trauma Rehabilitation team, Community Rehabilitation

Rehabilitation, ABI, pressure care

Participate in the development of a competency training package for the XSENSOR

Erin O'Shanassy

Grade 3 - Clinical Lead, Occupational Therapy, Inpatient Rehabilitation.

Rehabilitation

Participate in research related to domestic living skills group in inpatient rehabilitation setting

Bonnie Edwards

Grade 2, Trauma Rehabilitation Team, Community Rehabilitation/ GEM

Rehabilitation, ABI

Participate in the development of Brain Training program in GEM inpatient unit

Leanne Wilson

Grade 3- Palliative Care

Palliative Care

Participate in the development of a therapeutic garden in an inpatient rehabilitation setting

Monique Walsh

Grade 3 – Clinical Lead, Occupational Therapy, Acute Surgical Stream

Oncology

Participate in the development of pressure risk screening tool for acute Occupational Therapists

Denae Barr

Grade 2, Acute, Neurology

Acute Care

Participate in the development of acute neurology assessment tool

Cassandra Demetrios

Grade 3 – Clinical lead, Occupational Therapy, Acute Medical Stream

Acute Care

Participate in the development of occupational therapy delirium pathway

Rebecca Martin

Grade 2, Acute Orthopaedics

Acute Care, orthopaedics

Participate in the development of activity box resource

Todd Curtis

Grade 3 – Clinical lead, Occupational Therapy, Acute Medical Stream

Acute Care, Cardiothoracic

Participate in the development of cardiothoracic resource for orientation of staff and students

Mel Mew

Grade 4 - Occupational Therapy, Site Manager, Subacute Program

Neurology

Lead SENSE research project at Barwon Health

Nikki Lyons

Grade 3 – Occupational Therapy Student Coordinator

Student Education

Coordinate student quality improvement and research projects.

Co-author with university staff (e.g. Deakin University and Charles Sturt University) on a number of recent publications

Kate Ingwersen

Grade 3 – Occupational Therapy, Primary Care Program

Student Education, Primary Care

Led applications for primary care OT's working with clients with a mental disorder.

Co-author with Deakin University staff on a number of recent publications

Nicole Shaw

Grade 3 – Occupational Therapy Student Coordinator (currently on secondment)

Student Education

Co-author with university staff (e.g. Deakin University and Charles Sturt University) on a number of recent publications

Students

Monique Walsh

Masters of Public Health (Cancer Prevention)

Professional Affiliations

Deakin University Occupational Therapy Advisory Board

Charles Sturt University

Deakin University

La Trobe University

Florey Institute of Neuroscience and Mental Health





Ophthalmology

Research Focus

The Ophthalmology Department has been involved in work particularly in the following research fields –

- Surfboard related injuries presenting to University Hospital Geelong especially head neck and ocular and the mechanisms associated with globe injury and methods of harm reduction.
- Indigenous access to eye services in the Barwon region.
- Athena Study. Bimatoprost v SLT laser

The Ophthalmology Department has had nine publications this year, all of which are listed under publications in this report.

Oral Health Services

Research Focus

Research has become an integral part of Oral Health Services at Barwon Health, primarily used to promote continuous improvement in dental treatment and care of our regional/rural population. Key performance indicators are necessary to gauge improvement in healthcare. Research aligned with performance measures allows the service to monitor where and how our dental care can best promote improvement in oral health and evaluates new initiatives or changes to the model of care.

Major focus for 2017/2018 has included:

- Wide Smiles, an outreach program providing dental screening to children at kindergarten, early learning centres and schools
- An adolescent project that assessed the oral health of secondary school aged children in Colac Otway Shire
- Diabetes screening in the Community Dental Clinic
- Hall Technique, an innovation in treating decay in children with stainless steel crowns
- Splash, investigating the oral health of mothers and their preschool aged children
- Changes to the Emergency Model of Dental Care in the Community Dental Clinic.

In The News

July 2017-June 2018

Partyline (#62, March 2018), Health Services & Programs

Wide Smiles bringing oral health care to children in South Western Victoria. MJ Rogers, JA Pawlak, L Carroll, S Sharp, M Smith

Now available at <http://ruralhealth.org.au/partyline/> and <http://ruralhealth.org.au/partyline/article/wide-smiles-bringing-oral-health-care-children-south-western-victoria>

Diabetes Research Review Issue 101 - 2017

Embracing change in dental practice to deliver better health outcomes – a type 2 diabetes screening and oral health pilot program. MJ Rogers, JA Pawlak, S Law, L Carroll, S Sharp, T Dunning, M Smith

Now available at <https://www.researchreview.com.au/au/Clinical-Area/Internal-Medicine/Diabetes-Obesity/Diabetes-and-Obesity/Diabetes-Research-Review,-Issue-101.aspx>

Public Health Association of Australia Intouch December 2017

Moving beyond behaviours of our parents. MJ Rogers, M Smith, J Pawlak, S Sharp and L Carroll.

Now available at https://issuu.com/phaa2016/docs/171220_december_intouch_final

Awards Received July 2017-June 2018

MJ Rogers, JA Pawlak, L Carroll, S Sharp, M Smith

Finalist: Improving Children's Health, Wide Smiles
Victorian Public Healthcare Awards 2017
Melbourne, Victoria

JA Pawlak, MJ Rogers, L Carroll, S Sharp, T Dunning, M Smith

Highly Commended: Supporting healthy populations, A Novel Setting for Screening Diabetes
Victorian Public Healthcare Awards 2017
Melbourne, Victoria

JA Pawlak, MJ Rogers, L Carroll, S Sharp, M Smith

Winner: Oral Health Project of the Year, Wide Smiles
Dental Health Services Victoria
Melbourne, Victoria

MJ Rogers, JA Pawlak, L Carroll, S Sharp, M Smith

Winner: Our Community's Wellbeing, Wide Smiles
Barwon Health Quality Awards 2017
Geelong, Victoria

JA Pawlak, MJ Rogers, L Carroll, S Sharp, M Smith

Winner: Research, Education and Training for Excellence, A Novel Setting for Screening Diabetes
Barwon Health Quality Awards 2017
Geelong, Victoria

MJ Rogers, JA Pawlak, L Carroll, S Sharp, M Smith

Winner: Board of Directors Award, Wide Smiles
Barwon Health Quality Awards 2017
Geelong, Victoria

M Smith (nominated by MJ Rogers, J Pawlak, L Carroll, S Sharp)

Corporate Citizen's Award
Barwon Health Quality Awards 2017
Geelong, Victoria

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

ORAL PRESENTATION

- International Association of Paediatric Dentistry. November 2-4, 2018, Bangkok.
- Evaluation of changes to the Emergency and General Models of Care
- Creating a generational change of attitude towards oral health in rural South-West Victoria: In preparation for submission to Rural and Remote Health
- Preventive Model of Dental Care Project in collaboration with Bellarine Community Health Ltd, Deakin University, CoHealth, LaTrobe University, Health Issues Centre

Staff

Clinical Associate Professor Michael Smith

Director Oral Health Services
Oral Health

Associate Professor Michael Smith has been the innovator of projects that have initiated a generational change of attitude towards Oral Health and the dentist and provided evidence-based data that has supported changes to the model of care. Professor Smith has been a co-investigator on the Romp and Chomp, Smiles-4-Miles project, Splash, Wide Smiles, the Hall Technique and Screening for Diabetes in the Community Dental Clinic. Professor Smith has an attitude that is always focused on innovation and action resulting in the best possible outcome for patients and the community.

Associate Professor Margaret Rogers

Writer/Statistician/Data Analyst
Regional and Rural Health

Associate Professor Margaret Rogers has 23 years of experience working within regional/rural research and Barwon Health related projects. Database design, data collation, presentation and report writing are her contribution to the oral health team.

Dr Jacqui Pawlak

Ethics Manager

Ethics Management

Dr Jacqui Pawlak is an experienced researcher who supports the Oral Health Service with study design, ethics applications, grant writing, report writing and health service audits. Jacqui's role provides project support for the early career researchers on the Oral Health Service team.

Ms Sharon Sharp

Clinical Manager

Team Coordination

Ms Sharon Sharp is responsible for the day to day running of the Oral Health Service and leads the change management processes. Sharon supports the clinical team in their endeavour to improve the running of the service and uses her management training to support the team with the best equipment and service possible.

Mrs Lindy Carroll

Administration Manager

Team Coordination

Mrs Lindy Carroll has the responsibility of running the administration team and supports all of the community dental clinics and outreach teams. Organisation and problem solving are primary in Lindy's day-to-day focus.

Students

Stacey Law

Masters

Oral Health

Professional Affiliations

Clinical Associate Professor Michael Smith

Bellarine Community Health Ltd.

Dental Health Services Victoria

VicGen & Splash Investigators Meeting

Wathaurong Health Service Closing the Health Gap Advisory Group

La Trobe University – Chair of the Curriculum Advisory Committee for dentistry and oral health

International Association for Dental Research

Public Health Association of Australia – Special Interest Groups: Child Health, Oral Health

Colac Area Health

The University of Melbourne, Department Population Health

Deakin University, Deakin Population Health

Colgate Palmolive Pty Ltd

North Richmond Community Health

South West Health Care

Palliative Care

Research Focus

The Palliative Care team have been involved in clinical trials for the relief of commonly experienced symptoms in the palliative care population since 2010. The Palliative Care Department are still participating in clinical trials and have also developed the Palliative Care Research Group and are conducting qualitative and quantitative research involving many disciplines and a wide range of topics. The research they are undertaking is aimed at improving quality of life and service delivery.

Major Achievements July 2017-June 2018

Ongoing Studies – Palliative Care Research Group

The evaluation of the multidisciplinary Cachexia and Nutrition Support Clinic - The Patient and Carers perspective

An ongoing research initiative of the Cachexia and Nutrition Support Service data

Understanding Health Literacy in Community Palliative Care Setting – Does Teachback training change practice related to information transfer - The Clinicians' perspective

Evaluating the Life Stories program for Community Palliative Care from a Patient and Carer perspective

Telling it like it is: The volunteer experience of the Life Story process from the perspective of interviewer and transcriber

The when and where of palliative care: A review of inpatient palliative care referrals in an acute regional Victorian Hospital

A qualitative study exploring the experiences of multi-disciplinary staff working in a dedicated cancer cachexia clinic

A retrospective medical record audit of Community Palliative Care patients' presentations to the Emergency department, the reasons and the outcomes

A retrospective medical records audit of patients whose preference was to die at home: What helps people achieve their wish?

Regional Community Palliative Care Partnerships: A pharmacy outreach program. Aim: Evaluate the impact of pharmacist interventions in improving the outcomes for palliative care patients treated in the community by optimization of therapy, reduction in medication misadventures and improved access to information for clinicians, patients and care givers.

Ongoing Studies – Palliative Care Clinical Trials

BEAMS- A pragmatic, phase III, multi-site, double-blind, placebo controlled, parallel arm, dose increment randomised trial of regular, low dose extended release morphine for chronic refractory breathlessness.

PEARL- A randomised phase 3 trial of palliative care early in advanced lung cancers.

MELATONIN- Randomised, double-blind, placebo-controlled phase III trial of oral melatonin for the prevention of delirium in hospital in people with advanced cancer

Completed Projects

Palliative Radiotherapy Utilisation within a Palliative Care Unit. PI Peter Eastman. Manuscript published in Annals of Palliative Medicine. Accepted for an e-poster at MASCC.

Cancer DEXamethasone Trial (CADET) Part 1: A multi-centre single-arm, feasibility study of oral dexamethasone in the management of cancer-related pain. Principle Investigator: Dr Peter Eastman

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

The palliative care team is looking forward to strengthening our relationships with external collaborators. We have some exciting projects in progress and will continue to grow our research output.

Staff

Dr Peter Eastman

Joint Head of Department Palliative Care
PI and Co-Investigator on Multiple Clinical Trials and Research Projects

Dr Ian Grant

Joint Head of Department Palliative Care
Co-Investigator on Multiple Clinical Trials and Research Projects

Professor Peter Martin

Palliative Care Consultant
Cancer Cachexia
PI and Co-Investigator on Clinical Trials and Research Projects

Dr Helen Farrell

Palliative Care Consultant
Palliative Care
Co-Investigator on Clinical Trials and Research Projects

Anna Dowd

Clinical Trial Coordinator
Palliative Care
Co-Investigator on Research Projects. Chair Palliative Care Research Group

Jennifer Walsh

Volunteer Coordinator Palliative Care
Palliative Care
Co-Investigator on Research Projects

Jenny Trezise

CNC-Acute Consult Team
Palliative Care
PI on Research Project

Sue Berry

Nurse Practitioner
Acute Consult Team
Palliative Care
Co-Investigator on Research Project

Jill Carter

CNC-Community Palliative Care
Palliative care
Co-Investigator on Research Project

Lisha Kuruvilla

Pharmacist Palliative care
Palliative Care
PI on Research Project

Ruth Morrison

Community Palliative Care Nurse
Palliative Care
Co-Investigator on Research Project

Sarah Short

Community Palliative Care Nurse
Palliative Care
PI on Research Project

Cheryl Spiller

Community Palliative Care Nurse
Palliative Care
Co-Investigator on Research Project

Melanie Davies

Palliative Care CNC/Education Coordinator
Palliative Care
Co-Investigator on Research Project

Matthew Ely

Physiotherapist Palliative Care
Palliative Care
Co-Investigator on Research Project

Professional Affiliations

PaCCSC - Palliative Care Clinical Studies Collaborative
ALTG - The Australasian Lung Cancer Trials Group
Deakin University
Queens University Belfast

Pharmacy

Research Focus

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

Major Achievements July 2017-June 2018

Project Completion

- Successful completion of the DHHS Advanced Practice in Allied Health Grant (\$135,000) entitled - Regional Community Palliative Care Partnerships: A pharmacy outreach program (Lisha Kuruvilla, Greg Weeks Johnson George).
- Successful completion of the DHHS funded Partnered Pharmacist Medication Charting for general medicine patients (\$75,000) (Greg Weeks, James Polmear). Awaiting economic analysis from Deakin University.
- Two publications

Awards Received July 2017-June 2018

Alicia Neels

DoseMe Clinician of the Year
DoseMe
Geelong, Victoria

Rachel Fyfe (as a team member of Inotropes writing group)

Outstanding contribution
Safer Care Victoria Critical Care Clinical Network
Melbourne, Victoria

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- The outcomes of funding applications for two projects involving regional collaboration for patients receiving chemotherapy for the first time and improving medication management in community palliative care
- Commencing the smoking cessation randomised controlled trial (VANISH) comparing varenicline and NRT with placebo and NRT in hospitalised smokers
- Conducting a research project into GEM at home
- The outcomes from two DHHS projects with pharmacists in key team roles
- The sepsis improvement project (Safer Care Victoria) – Alicia Neels
- Standardised inotropes and vasopressors: Implementation pilot (Safer Care Victoria) Rachel Fyfe
- Outcomes of collaborative projects with cardiology (Garth Birdsey and Janice Chiang)

- Investigating patients admitted with a diagnosis of acute coronary syndrome with a Dutch Lipid Score over six
- An audit of dual antiplatelet therapy in patients post CABG where CABG was the means of revascularisation after an admission for acute coronary syndrome

Staff

Dr Greg Weeks

Director of Pharmacy

Pharmacy Practice Research, Non-Medical Prescribing

Leads research link with Monash University, Supervisor for Masters and PhD projects

Member Barwon Health Human Research and Ethics Committee and

Member Pharmacy Research Committee

Dr Diana Bortoletto

Education and Training Pharmacist

Pharmacy Intern Project Supervisor, Telehealth, Qualitative Research into Pharmacy Practice

Member Pharmacy Research Committee

Student Research Project Supervisor

James Polmear

Associate Director Clinical Pharmacy Services

General Medicine

Chair of the Master of Clinical Pharmacy Advisory Group, Monash University

Alicia Neels

Antimicrobial Stewardship Pharmacist (AMS)

Antimicrobial Therapy

Active Researcher in AMS

Garth Birdsey

Cardiac Pharmacist

Cardiology

Collaborative Projects with Cardiology

Leonie Abbott

Emergency Department Pharmacist

Emergency Medicine

Drug Scan Reviewer of ED Literature for the Journal of Pharmacy Practice Research.

Site Lead for a multi-site project developing and validating a screening tool for patients at risk of

medicine related problems at presentation and after discharge from the emergency department

Sylvia Cuell

Deputy Director of Pharmacy

Clinical informatics

Member Pharmacy Research Committee

Students

Lisha Kuruvilla

PhD

Collaborative Pathways in optimising medicines use and safety in Palliative Care.

Rosa Smeets

Master of Pharmacy

Direct acting antivirals and pharmaceutical care for hepatitis C patients attending a regional ambulatory clinic in Australia.

Sarah Durran

Master of Clinical Pharmacy.

Alicia Neels

Masters of Health Management/Public Health (Infectious Diseases)

Antimicrobial Stewardship in General Practice.

Tram Tang

Master of Pharmacy

Quantitative assessment of prescriber adherence to COPD-X guidelines in the management of chronic obstructive pulmonary disease in primary and secondary care and a review of patient adherence to treatment recommendations in a regional Australian setting.

Jessica Rhodes

Master of Clinical Pharmacy

Pharmacological management of agitated delirium in the acute general medical unit.

Tenay Rankin

Master of Clinical Pharmacy

Antihypertensive therapy in acute stroke: the effect of education and a treatment algorithm on improving patient management.

Grants 2017-2018

Grants	Value
Global Research Awards for Nicotine Dependence (GRAND) Varenicline and Nicotine replacement therapy for Smokers admitted to Hospitals (VANISH) George J, Bonevski, B. , Abramson, M. J, Weeks G et al, 2018-2019	\$200,000

Professional Affiliations

- Monash University Faculty of Pharmacy and Pharmaceutical Sciences, Centre for Medication Use and Safety - Undergraduate and Postgraduate Students
- University of Utrecht, Netherlands - Postgraduate Students
- Deakin University Faculty of Health, School of Medicine - Education and Research
- Society of Hospital Pharmacists of Australia - Research Projects and Practice Development



*The Pharmacy Department
supports more than 100
investigator-led or industry
sponsored clinical trials within
Barwon Health.*

Physiotherapy

Research Focus

- A Prospective Multicentre Phase iii randomised controlled trial of early activity and mobilisation compared with standard care in invasively ventilated patients in intensive care (team trial) Dr Nima Kakho, Mr Tom Crawford and Ms Allison Bone.
 - Intensive Care Unit, University Hospital Geelong, Barwon Health, Geelong, Victoria.
 - The team trial is a National Health and Medical Research Council (NHMRC) funded collaborative Phase iii Study involving participating Intensive Care Units, the Australian and New Zealand Intensive Care Society (ANZICS) Clinical Trials Group, ANZIC Research Centre (Monash University) and the Medical Research Institution of New Zealand.
 - Evaluating transcatheter arterial embolisation for improvement of pain in Osteoarthritis of the knee. Dr Steve Landers, Dr Andrew Hely, Dr Benjamin Harrison, Dr Stephen Gill, Dr Nicholas Maister, Professor Richard Page, Professor Peter Brothie (+ Rachael Hely – trial coordinator).
 - Exploring the personal burden of shoulder pain among younger people in Australia. Associate Professor Ilana N Ackerman, Professor Richard S Page, Ms Kathy Fotis, Mr Peter Schoch, Mr Nigel Broughton, Dr Sharon L Brennan-Olsen, Associate Professor Andrew Bucknill, Ms Emily Cross – (Peter Schoch – Barwon site recruiter).
- Publication of articles related to Sarah Tinali's research of 'driving posture and low back pain in occupational drivers'.
 - Six publications

Staff

Peter Schoch

Grade 4 Physiotherapist (UHG)
Orthopaedics and Service Development
Co-authored several research publications associated with orthopaedics.

Tom Crawford

Grade 3 Clinical Lead Physiotherapist –
Cardiorespiratory.
Cardiorespiratory physiotherapy - ICU
Involved in ICU research associated with early activity and mobilisation of ventilated patients.

Students

Gemma Paterson

Master of Advanced Health Care Practice

Matthew Thackeray

Master of Philosophy (Research)
Changes in muscle mass in ICU survivors

Sarah Tinali

Masters of Physiotherapy by Research.

Driving posture and low back pain in occupational drivers

Nicola Lloyd

Master of Applied Science (Research)

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Two service design papers describing the Physiotherapy Paediatric Orthopaedic clinic and DDH clinics.

Social Work

Research Focus

The Strengthening Health Service Response to Family Violence (SHRFV) initiative is a whole of health service response to family violence. Barwon Health is currently embarking on this service improvement initiative in collaboration with our regional partners, Lorne, Otway, Colac and Hesse health services.

The SHRFV model was developed by The Royal Women's Hospital and Bendigo Health and is based on international best practice responses to family violence in health care. This initiative aims to 1) Increase the supports available for employees of the health service who are experiencing family violence and; 2) Improve how clinicians at the health service identify, respond to and support consumers impacted by family violence. In order for us to better understand where we are currently at and what we need to develop we are undertaking a Barwon Health wide staff survey. The aim of the survey is to investigate current attitudes and practices relating to the prevention of violence against women and knowledge of and responses to family violence within Barwon Health. This survey is being sent to all staff, to achieve a broad overview of current practice and knowledge. It is intended that the data we collect will assist both the SHRFV project and our health promotion team to develop training modules, policy development and provide baseline measures to inform our future actions in working towards both the prevention of violence against women as well as improving how we recognise and respond to family violence more broadly. The survey involves answering questions about current knowledge, commonly held beliefs, levels of awareness, and current barriers and enablers to responding to family violence. This survey was submitted to the Barwon health REGI for review

and recently gained ethics exemption approval. For further information about the Strengthening Health Service Response to Family Violence (SHRFV) Project, contact Karen Todd, (03) 4215 0507| karento@barwonhealth.org.au

The Quality of Practice Teaching and Learning in Rotation Placements: Focus on Student and Supervisor Perspectives - Research Lead- Dr Sevi Vassos, School of Health and Social Development, Deakin University, affiliated- Karen Todd, Manager, Social Work Barwon Health. Study overview- Increasing demand for social work placements in a context of decreasing availability has intensified the search for capacity-building models of field education. Existing studies have reported that rotational placement models can offer solutions in terms of increasing placement capacity. However, there is little systematic research into the quality of teaching and learning within this model. Barwon Health Social Work department is participating in a two-year study with Deakin University, Department of social work into social work rotation placements within Barwon Health Social Work. Drawing on the perspectives of 16 students and 30 supervisors the study seeks to deepen understandings of how students and their supervisors experience the quality of practice teaching and learning within this model. The study adopts a mixed methods design and uses online surveys followed interviews to explore the impact on the known drivers of quality in social work field education; namely, supervisory relationships, breadth, depth and continuity of learning, level of student access to authentic practice tasks and supervisory workloads. The preliminary findings suggest that the model brings each of these drivers into sharp focus for both students and supervisors.

Research Lead Dr Danielle Hitch
Social Work contribution Lauren Tyrell

This workshop was run in 2016 and data collected from participants has been used to complete a preliminary

report. An extension of the original 12 months approval for this project was been sort and granted to enable a repeat of the workshop to be run in early 2018 and further data collection (using the same procedures and instruments) to be completed. Following this second workshop, the project will be complete and all analysis will be prepared for publication.

The SWIFT Collaboration: Implementing a Social Work Model of Trauma Informed care in Paediatric Settings. Principal Researcher – Dr Anita Morris, Social Work Manager Western Health, affiliated Karen Todd and Jacinta Bourke, Social Work Department Barwon Health. The SWIFT Collaboration is about understanding and responding to patient and caregiver trauma. Childhood trauma is a major health issue impacting people's health and mental health over their lifetime. Trauma arises when children and young people are exposed to adversity such as abuse, neglect and/or household dysfunction such as family violence. Those who experience trauma will be higher users of health services in their lifetime and may present regularly to hospitals if their symptoms remain untreated. Identifying childhood trauma in hospitals enables comprehensive risk assessment, early supportive intervention and strengthening of individual and family supports. The SWIFT Collaboration wants to find out whether asking about trauma and protective factors and providing tailored support is of benefit to children and their caregivers in Victoria, Australia. SWIFT is a sub-specialty area of social work care that goes beyond usual social work care to better understand and support trauma experience of patients and caregivers

Major Acheivements

- SWIFT Collaboration, People's Choice Poster Award
- 8th Annual Health Social Work Research Symposium: Innovation by Design: Research & Quality in Health Social Work
- Marsh Pauline, Brennan Sebrina, Vandenberg Miriam (2018) 'It's not therapy, its gardening': community gardens as sites of comprehensive primary healthcare. Australian Journal of Primary Health , <https://doi.org/10.1071/PY17149> (Sebrina Brennan is a member of the oncology social work team at UHG)

Students

Catherine Musico

Masters of Social Work completed 2017 Course Work.

Paul Dodermaide

PhD (current)

Mental Health and Social Media.

Professional Affiliations

- Collaboration with Deakin University
- Collaboration with the Student Unit. Agreement to take 16 students per year. Agreement with the Institute of Koorie Education (IKE) that priority is given to Aboriginal or Torres Strait Islander students.



Speech Pathology

Research Focus

Speech Pathology is participating in the Aphasia ASK (Action Success Knowledge) Clinical Trial which is an NHMRC-funded cluster randomised control trial. The overarching aim of the ASK study is to decrease depressive symptoms for people with aphasia and their caregivers. Twenty-two metro and non-metro health networks across Australia are taking part in administering either an experimental or an attention control intervention to individuals with aphasia and their caregivers. The study aims to recruit 440 individuals with aphasia across the country. Barwon Health Speech Pathology has recruited 15 of a required 20 participants with aphasia and to date, has successfully completed intervention with eight of those participants and their caregivers.

Speech Pathology is also undertaking a qualitative clinical research study that aims to investigate the perceptions of nurses and patients with recently acquired stroke related communication disorders on their experiences of communicating on the acute hospital stroke unit at Barwon Health. In total, five nurses and six patients have taken part in semi-structured face to face interviews. The project is currently in the analysis phase. It is anticipated that findings will assist in guiding implementation of future communication access interventions on the acute stroke unit, tailored specifically to increase consumer participation, engagement and satisfaction with their healthcare.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Meet participant recruitment targets and complete intervention for participants with aphasia and their caregivers for the Aphasia ASK (Action Knowledge Success) clinical trial.
- Access preliminary publications on the findings of the Aphasia ASK clinical trial which can be used to inform future clinical treatment and care for consumers with aphasia and their caregivers at Barwon Health.
- Complete analysis and write up of the “Improving the Experiences of Communication between Patients with Recently Acquired Stroke Related Communication Disorders on an Acute Stroke Unit” study with the goal to present research findings at a conference and submit findings for journal publication.
- Use the above study results to implement new communication access interventions and initiatives on the acute stroke unit that are designed to enhance healthcare participation and satisfaction for consumers with recently acquired stroke related communication disorders and their caregivers. Examples may include implementing a communication partner training program aimed at increasing nurses’ knowledge, confidence and skills when communicating with these patients, and developing a set of communication aids and resources for nurses and other stroke health care professionals to use to facilitate successful communication interactions. Such initiatives align with the broader Barwon Health 2015-2020 Strategic Workforce Plan pillar 1 “putting consumers at the forefront”.

Staff

Nicky Robson

Speech Pathology Manager

Supporting consumer's in their ability to participate in their care

Speech Pathology's involvement in research

Ongoing facilitation/support of Barwon Health Speech Pathology staff's involvement in research activities

Renee Heard

Speech Pathologist

Consumer-centred aphasia intervention

Communication access for patients with acquired neurological communication disorders

Research facilitator "Aphasia Ask Study"

Research facilitator "Improving the Experiences of Communication between Patients with Recently

Acquired Stroke Related Communication Disorders on an Acute Stroke Unit"

Twenty-two metro and non-metro health networks across Australia are taking part in administering either an experimental or an attention control intervention to individuals with aphasia and their caregivers.

Urology

Research Focus

- Urological Trainee Performance
- Clinically-based Research focused on utilisation of Barwon Health and all of Geelong Renal Cell Cancer and Bladder Cancer databases
- Outcomes of Urological Cancer Care in Regional Centres – which has separate challenges to Metropolitan Centres
- Collaboration with Statewide and National Cancer Databases relating to Prostate Cancer outcomes (Prostate Cancer Outcomes Registry – PCOR) and identifying gaps in prostate cancer care (True NTH Project)
- Robotic Urological Surgery – Outcomes and Training

Major Achievements

Established a program to perform robotically assisted urological cancer surgery in a regional centre (1 of 2 in Australia) with rigorous outcome focussed prospective data collection. Robotic program provides equity of access to robotically assisted urological surgery in Geelong. Paper presented at the Urological Society of Australia and New Zealand (USANZ) ASM in February 2018. The Prostate Cancer Foundation of Australia (PCFA) referenced our paper as being one of the highlights of the recent USANZ ASM

In The News

July 2017-June 2018

World No Tobacco Day - Geelong Advertiser (30/5/18)

Awards Received

July 2017-June 2018

Richard Grills

Barwon Health Safety & Quality Awards -

Robotic Radical Prostatectomies: - An effective collaboration between the public and private sectors to achieve equity of access for regional patients.

Barwon Health, Geelong.

Stuart Willder (project in collaboration with Richard Grills)

Best Paper at National ASM - Nurse Practitioner to Urologist Video Flexible Cystoscopy service – journey from concept to reality in the rural setting.

Australia and New Zealand Urological Nurses Society (ANZUNS)

Melbourne.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Continuation of Robotic Surgery evaluation particularly with regard to its application in a Public Hospital regional setting.
- Evaluation of Sacral Neuromodulation Program.
- Publication and presentation of final data one of the world's largest prospective studies on factors contributing to damage of multi-use flexible urterorenoscopes and the cost effectiveness of the instrument.
- Continuation of Robotic Surgery evaluation particularly with regard to its application in a public hospital regional setting.
- Evaluation of Sacral Neuromodulation Program.
- Publication and presentation of final data one of the world's largest prospective studies on factors contributing to damage of multi-use flexible urterorenoscopes and the cost effectiveness of the instrument.
- Presentation of preliminary data was awarded Abbvie Platinum Trophy for "Most innovative Research Project" at Urological Society of Australia and New Zealand (USANZ) ASM in February 2017 (photograph right).



- Presentation of complete dataset at World Congress of Endourology Meeting (paper accepted), Paris, September 2018
- Evaluation of outcomes in renal cell cancer
- Nested case control study in patients older than 80
- Effectiveness of follow-up based on cancer clinic review protocols

Staff

Richard Grills

Head of Department

Minimally invasive and robotic surgery, urological oncology.

Greg Neerhut

Urologist

Karl Braslis

Urologist

Paul Kearns

Urologist

Kathryn McLeod

Urologist

Female Urology

Sarah Norton

Urologist

Wai Gin (Don) Lee

Locum Urologist

George Mirmilstein

Locum Urologist

Students

Kathryn McLeod

Masters of Surgical Education (University of Melbourne)

Trainee Underperformance

Professional Affiliations

Richard Grills

Board of Urology, Royal Australasian College of Surgeons' (RACS)

International Medical Graduate (IMG) Assessor for Urology, RACS

Chair Surgical Services, St John of God Hospital, Geelong

Paul Kearns

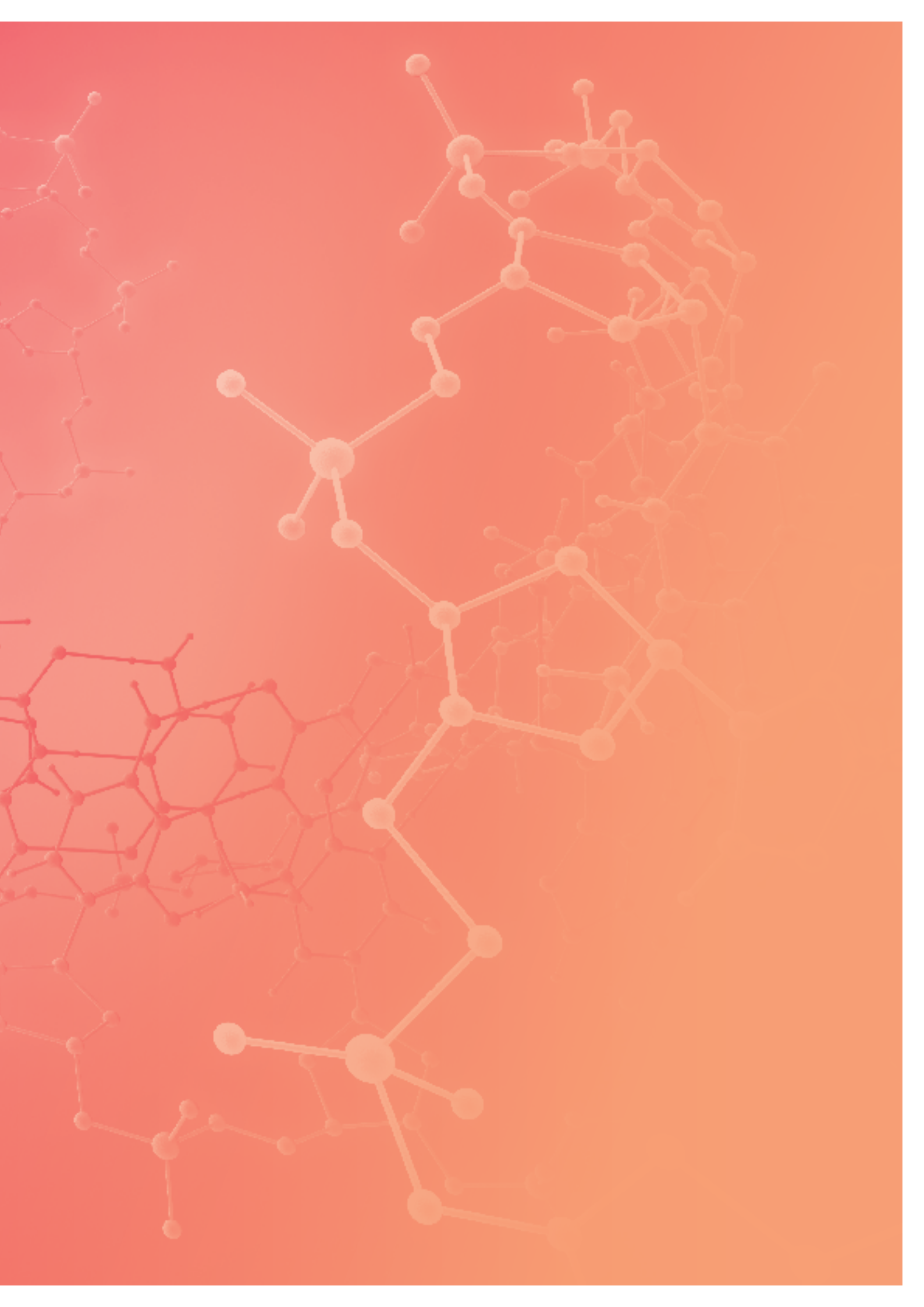
Prostate Cancer Outcomes Registry Committee Member (Monash University)



SECTION

5

Clinical Trials



Clinical Trials Advisory Committee Summary (CTAC) 2018

The Clinical Trials Advisory Committee began in 2013 as a Committee to support and build Barwon Health's capacity to undertake high quality clinical trial research.

CTAC membership comprises a core group of clinical trial experts across the clinical disciplines, as well as our Research Ethics, Governance and Integrity Unit Manager, Research Governance Officer and our recently appointed Clinical Trial Officer, Mr. Richard Larson. Meetings are held every three months, with associate members from supporting disciplines such as Pharmacy, Radiology and Knowledge and Information Services attending as required.

This year has seen the launch of a number of new Department of Health initiatives, along with national regulatory updates, and the CTAC group has been instrumental in ensuring that new guidelines and best practice are implemented at Barwon Health.

CTAC's achievement over the past year include;

- Smooth Implementation of the new Human Research Ethics Application form or HREA. The HREA form adopts conditional logic and allows for shorter applications including only questions relevant to particular project types
- Consultation on changes to Radiation Reporting documentation and updated Prompt documents incorporating clearer guidelines on use of radiation in research and Standard of Care definitions
- Implementation of a rigorous governance process for Phase 1 Clinical Trials to ensure organisational support and readiness for high risk clinical trials

- Enhancement of Barwon Health's Clinical Trial profile – including launch of a new Clinical Trial Brochure and website highlighting Barwon Health's strengths and resources to Pharmaceutical companies and potential clinical trial sponsors.
- Celebration of International Clinical Trials Day 20th May. CTAC organised a light hearted randomised double-blind clinical trial in the cafeteria with staff, patients and visitors volunteering to rate different yoghurts to address the question 'Do fat free and low fat yoghurt taste equally as good?'
- Consultation on introduction of compulsory Good Clinical Practice Certificates for all Principle Investigators, Associate Investigators and Clinical Trial Coordinators at Barwon Health
- Collaboration on Progress/Final Report Acknowledgement auto email which is now implemented and provides increased efficiency and reduces administrative burden
- Preparation for implementation of a new research ethics and governance database, Ethics Review Manager or ERM

The CTAC chair and deputy chair would like to acknowledge all CTAC members for their contributions and look forward to a productive year ahead with continued growth of Barwon Health's clinical trials capacity and engagement.

Ms Lisa Fry

CTAC Chair

Ms Alana Sarah

Deputy Chair

Clinical trials play an essential role in improving healthcare, and hundreds of patients across Barwon Health participate in clinical trials in areas including mental health, orthopaedics, endocrinology, surgery, cardiology, haematology, intensive care, neuroscience and anaesthesia.

The following are some of the clinical trial highlights from the past 12 months that showcase our leading-edge research.

The Clinical Trial Unit undertakes research across endocrinology, infectious diseases and paediatrics at Barwon Health. It was the lead site and the first site in Australia to open a study to test a new drug treatment for infants and young children infected with respiratory syncytial virus. This unit is also the lead site for a further five projects in Australia in this area and is the lead on 80 per cent of all collaborative clinical trials in which they are involved, which is a testament to the team's internationally-recognised skills and efficiency and demonstrates Barwon Health's competitive edge in clinical trial research.

Clinical trials within the Intensive Care Unit (ICU) are integral to continuous review and improvement in the development of better treatment methods, prevention strategies or improvement in diagnostics. Barwon Health's ICU Research Team has been instrumental in developing and leading the first Phase 2 Interventional study investigating the effect of Denosumab (a human monoclonal antibody used in the treatment of osteoporosis), on bone turnover in critically ill women and the award of a research grant from the Intensive Care Foundation.

The Geelong Cardiology Research Unit has had many highlights this year, including its achievement as one of the highest recruiting sites in Australia for the majority of studies Barwon Health has been engaged in. The quality and efficiency of this team's work has been noted and is reflected in this team taking on the role as a lead coordinating site for a number of clinical trials across Australia. Team member, Ms Karen Fogarty, has been selected to be the National Study co-ordinator for Australia and will sit on an International Study Steering Committee for a new study soon to commence. This is an outstanding achievement and honour for Karen, the Cardiology Research Unit, and Barwon Health. Unit Director Associate Professor John Amerena also enjoyed peer recognition and has been invited by the Medical Journal of Australia to review the new National Heart Foundation guidelines for the management of heart failure prior to their publication.

The Project Love Pharmacy and Day Oncology Redevelopment, which is nearing completion, is an exciting new addition in the clinical trial space at Barwon Health. This expansion allows for a dedicated clinical trials area within the day oncology unit and will provide the means and opportunity to centralise the supply of all clinical trial oral and parenteral dispensing through specialised pharmacy staff.



Cardiology

Therapeutic Area Focus

The Geelong Cardiology Research Unit located at Barwon Health University Hospital Geelong, has been at the forefront of Cardiovascular Research in Australia since opening in June 2000. The research unit is dedicated to providing the Geelong and wider community with access to specialised and developing new treatments, through its conduct of both outpatient and in-patient trials under the direction of Associate Professor John Amerena.

Making up the research unit are a dedicated team of health care professionals including a number of highly experienced clinical trial registered nurses, and a Cardiology Research Medical Officer.

The team is also supported by a number of experienced Cardiologists who perform the role of sub-investigators.

The unit participates in large scale global research trials in cardiovascular disease including heart disease, heart failure, hypertension, cholesterol, atrial fibrillation, Type 2 diabetes and obesity.

Whilst the research team members are essential to facilitate the running of a clinical trial, the research would not be possible without the patient volunteers who give their time so willingly to be involved in the projects being conducted.

Typically a patient is invited to participate in a trial by a member of the research team, or a patient may make an enquiry after seeing a newspaper advertisement or hearing an advertisement on the radio. It is fabulous that many research participants are so generous with their time, and find their research experience

so positive, that they return to participate in further studies following the completion of their initial trial.

Participation in a study begins with a detailed discussion with Associate Professor Amerena or the Cardiology Research Medical Officer. If the participant is happy to proceed, a consent form that outlines all facets of the trial will be signed.

For the research participant involvement in a clinical trial will generally involve;

Collection of the participant's demographics, past medical history and current medications, as well as the performance of several screening procedures including:

Physical assessment, Blood Pressure assessment, Weight/Height, Pulse, ECG's and Blood and urine tests.

Eligibility for the study will be based on these assessments, which are performed at no cost to study participants. Study length can vary in duration from six months to more than five years, with the participant being carefully monitored throughout the course of the study.

Over the years, many of the studies that have been conducted by the Cardiology Research Unit have resulted in the development of a new therapies, treatment options and interventional procedures; that are now considered global standard of care for cardiovascular disease

Particular highlights of the research conducted in 2017/2018, include being amongst the highest recruiting sites in Australia for the majority of studies that cardiology research has been involved with have been involved with. Less glamorous, but no less important to us, the cardiology team has also been have also been frequently complimented on the quality of data collected, and the promptness with which required ethics reports have been completed, particularly when

we have assumed the responsibility for being a lead coordinating site for Australia. Team members have also been invited and accepted invitations to speak at meetings with their peers. Recently one member of our team expressed interest in being part of an international study steering committee.

A highlight every year is the annual research participant Christmas party, an event which provides us with the opportunity to thank research participants for their invaluable contribution to research and support. This event was well attended in December 2017, with approximately 170 research participants singing, dancing and enjoying an afternoon tea. As a department we are always well supported by the local Geelong and greater western district GP network, which is so pivotal to the successful conduct of any trial. We would like to thank them and the many participants who have helped support our department over the past 17 years and look forward to continued support in the future.

Number Of Industry Sponsored Clinical Trials Feasibilities And Start-Ups, (Phase 1, Phase 2, Phase 3), Number Of Participants Recruited And Revenue In The Past 12 Months.

Currently the Cardiology Clinical Trials Team are participating in 16 different clinical trials, mostly phase 2 and 3 pharmaceutical sponsored trials.

They have had three new sponsored studies start up in the past 12 months and currently have about 200 participants involved in research. The number of participants recruited in the past 12 months is difficult to determine as they have had studies start and stop. Estimation would be approximately 70. The Cardiology Clinical Trials have reviewed approximately 10 study feasibilities, and are currently in the process of submitting several to ethics for review.

Number Of Investigator-Initiated Clinical Trials Feasibilities And Start Ups (Phase 1, Phase 2, Phase 3) Number Of Participants Recruited In The Past 12 Months.

Currently the Cardiology Clinical Trials Team are involved in two investigator-initiated trials. One investigator-initiated feasibility was reviewed this year. We have recruited about 30 participants into investigator-initiated studies in the past 12 months.

Major Achievements July 2017-June 2018

The Cardiology Clinical Trials Team are continually amongst the top recruiting sites in Australia. They have recently had a Sponsor audit which had no major findings. The Sponsor's Audit comments were that the ethics folders and systems for tracking were second to none, patients were clearly well cared for and the source documentation was very clear and informative.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

The Cardiology Clinical Trials Team had several new and exciting studies which started up in the first half of this year. We hope to recruit well, maintain high standards and meet a lot of new research participants who we hope we can improve their health and wellbeing and provide better health care in the future.

Endocrinology/ Infectious Diseases And Pediatrics

Therapeutic Area Focus

The Clinical Trial Unit (CTU) commenced 10 new projects in the 2017/2018 year, with several projects finishing late 2017 there are currently 19 projects open, six of these studies are recruiting. Four of the trials are seasonal and will only have eligible participants once flu season commences.

In CTU there are 156 active participants. The total funding is a cost recovery model and for the 2017/2018 year approximately \$500,000 was attracted to the unit by these projects. CTU has 4.8 FTE with two Division 1 nurses (1 is a Diabetes Educator), Two Medical Scientists and One Nuclear Med Tech / Scientist qualified in Bone Densitometry. The unit's broad range of skill sets allows for the diversity of the units research and therapeutic areas to be appropriately managed with regards to patient care.

The CTU covers three main therapeutic areas of Endocrinology, Infectious Diseases (ID) and Paediatrics (Paeds) Research.

Significant Achievements

- Barwon Health site was the first site in Australia to recruit a participant for the C.Diff Vaccine Study (CLOVER)

- Exceeded recruitment target for the Zafgen study – Target for recruitment was five and eight were recruited
- Recruitment target achieved for ITRM in a very short recruitment period
- The Rainbow Study was given an extension to open label for study participants
- National leader for 7 Australian sites for the Zipp study
- Lead site for 7 infectious disease studies

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

There are currently six projects in start-up within the Clinical Trials Unit. Two in Endocrinology and Four in Infectious Diseases. Two of the ID projects are collaborative project with the Paediatric Team.

The key highlight for these coming Projects include:

- Ongoing involvement in Phase 2 Paediatric RSV studies with Infectious Diseases and Paediatric Team.
- Support from the JDRF Network has led to our site being approached to be involved with a Baker IDI IIS Phase 2 Study in T1DM (NOX).

*Number Of Industry Sponsored Clinical Trials
From July 2017-June 2018*

Therapeutic Area	Study Name	(Phase1/Phase2/ Phase3)	Number Of Participants Recruited	Current Trial Status
ID - Shingles Vaccine	Zoster 056	3b	31	Ongoing
ID - Shingles Vaccine	Zoster 049	3b	27	Ongoing
Endo – Type 2 Diabetes	Vertis	3	9	Ongoing
ID– Clostridium Difficile Vaccine	Clover	3	18	Recruiting
Endo– Type 2 Diabetes (in conjunction with Cardiology Research Unit)	DECLARE	3b	36	Completed (highest recruiter 70pts total with CRU)
Endo – Type 2 Diabetes (in conjunction with Cardiology Research Unit)	DELIGHT	2/3	1	Completed -Added as rescue site April 2017
Endo – Type 1 Diabetes	Rainbow	2a	1	Ongoing
Endo – Type 2 Diabetes	Zafgen	2	8	Ongoing
Endo – Type 1 Diabetes	ITRM	3	7	Ongoing
Endo – Type 2 Diabetes	ITRN	3	2	Ongoing
ID– Ross River Virus	RRV	Pilot Study	4	Ongoing
ID / Paeds Respiratory Syncytial Virus	RSV 2004 PLUM	2	0 - seasonal	
ID / Paeds Respiratory Syncytial Virus	RSV 2002	2b	0 - seasonal	
ID- Respiratory Syncytial Virus	Adult RSV ROSE	2b	0 - seasonal	
ID – Human Metapneumovirus	MPV	2b	0 - seasonal	
ID – Respiratory Syncytial Virus	Adult RSV 2003	2b	0 - seasonal	

*Number Of Investigator-Initiated Clinical Trials
From July 2017- June 2018*

Therapeutic Area	Collaboration Partner	Study Name	Number Of Participants Recruited	Current Trial Status
Endo – Type 1 Diabetes	Baker IDI and JDRF	NOX study	0	Recruiting
Endo – Type 2 Diabetes	NHMRC Clinical Trials	FAME1 Eye study	0	Recruiting
Endo – Paget's disease of bone	University of Edinburgh	Zipp	12	Ongoing

IMPACT

Research Focus

The Centre for Innovation in Mental and Physical Health and Clinical Treatment (IMPACT) is a multidisciplinary strategic research centre that integrates clinical, epidemiological and basic research with a strong translational focus. Research conducted at the Centre contributes to the understanding of the cause and impact of psychiatric, musculoskeletal and metabolic health disorder and most importantly to the development of new treatments for these disorders. The Centre continues to be a leading research centre in Geelong's health precinct, attracting recognition both nationally and internationally. The team's research contributes significantly to improvements in the global health sector's understanding of chronic disease patterns, risk factors and the development of novel therapies, especially for psychiatric disorders.

Significant Achievements

IMPACT SRC, including IMPACT TRIALS and the Food and Mood Centre, have continued to conduct world-first investigator-initiated clinical trials. These trials hold the promise of benefit to individuals with mental health issues, as well as for the health of the wider population. We are recognised Internationally for our pioneering work in the development of novel therapies for mental disorders, as well as for our research into mechanistic pathways that contribute to the development of mental disorders.

Some of the significant achievements for the past year have included:

- Professor Michael Berk being an ISI highly cited Researcher
- Dr Olivia Dean has commenced a R.D. Wright NHMRC Biomedical Fellowship

- Alyna Turner and Dr Olivia Dean have received NHMRC Project Grant funding
- Bianca Kavanagh has received a GMCC International Student Travel Award
- Melanie Ashton has received an Ian Parker Bipolar Research Fund/Australian Rotary Health Scholarship
- Professor Michael Berk has received a grant from the Victorian Accelerator Fund
- Professor Felice Jacka and Professor Michael Berk were on a successful MRFF grant of mitochondrial agents for fatigue in Multiple Sclerosis.
- Professor Michael Berk was on a successful MRFF grant of N Acetylcysteine for prevention of Huntington's in at genetic at risk individuals.
- Professor Michael Berk was on a successful ARC Hub grant.
- Erin Hoare has been awarded a postdoctoral fellowship funded by Australian Rotary Health
- Amy Loughman received a Jack Brockhoff Early Career Grant.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

The IMPACT SRC is planning on working more closely with other Departments both within Barwon Health and at Deakin University. We are already collaborating closely with the MRU, the Barwon Infant Study, GCEID, the Department of Surgery, GLOBE Obesity and CPAN.

Trial protocols in the planning stages from the Food and Mood Centre include:

1. A pilot study of faecal microbial transplant (human derived probiotics) for major depression, in collaboration with researchers at the University of

Melbourne, Barwon Health, Harvard University, and University College Cork.

2. Investigator-initiated RCT supported by BeFit Foods: This RCT will examine the possible differential impact on gut health of a food-based versus a supplement-based program for weight loss in obese adults
3. We are collaborating on a large RCT of a nutraceutical formulation in patients with MS. We are conducting a sub-study with a focus on metabolomics and gut health outcomes.

IMPACT TRIALS also has a range of proposed studies that will focus on affective disorders as well as generalised anxiety disorder. We are also working closely, through our Community and Research Network, with stakeholders to both improve our research proposal but also to facilitate citizen scientist activities.

Number Of Investigator-Initiated Clinical Trials From July 2017–June 2018

Number of Investigator-Initiated Clinical Trials feasibilities and start-ups	Phase	Number of participants Recruited in 2017
N-ICE: N-acetylcysteine for methamphetamine abuse (Trial commenced)	Phase 2b	0 (yet to commence recruitment)
Can we reduce tobacco smoking using N-acetylcysteine as a cessation treatment?	Phase 2	14
The efficacy of N-acetylcysteine as an adjunctive treatment for first episode psychosis	Phase 2	0 (not recruiting at BH directly)
The Moo'D study: investigating A2-only compared to conventional dairy in women with low mood (Trial to commence on one month. Ethics approval granted)		0
Healthy Parents Healthy Kids. This pilot RCT was conducted at the Royal Children's Hospital in collaboration with MCRI during 2016-17. Data collection finished in September 2017. Study results are being analysed.		45 mothers and their infants
The Food and Mood Centre will conduct a substudy of the 'Gut Feelings' RCT, which is led by the University of Melbourne with Food and Mood Centre members as co-investigators. We will lead the investigation of the impact of a dietary and probiotic interventions on gut health in participants in this RCT.		25 (commenced February 2018)
Mangosteen pericarp as an adjunctive treatment for schizophrenia		32
Mangosteen pericarp as an adjunctive treatment for bipolar depression		8
Quitlink: Accessible smoking cessation support for people living with severe and enduring mental illness.		0 (yet to commence)
Dietary interventions for weight loss in obese adults. This is supported by BE Fit foods and is a pilot randomised controlled trial commencing in 2018		0 (yet to commence)

Intensive Care

Therapeutic Area Focus

The primary focus of research in Intensive Care is to contribute to the evidence for interventions for Intensive Care patients and improve patient outcomes.

A major component of Intensive Care research is investigator-initiated, collaborative research under the auspices of the Australian and New Zealand Intensive Care Society – Clinical Trials Group (ANZICS-CTG). Intensive Care also has a strong program of other investigator-initiated collaborative projects and Barwon Health investigator-led research. This includes research that ranges from multi-centre clinical trials to observational studies.

Intensive Care Research is financed through ANZICS-CTG and collaborative trials income, commercial trials income when available, the ICU Private Practice fund, competitive grant income and Barwon Health resources.

There were 154 Intensive Care patients and 67 Intensive Care staff members enrolled in Intensive Care research in the 2017 calendar year.

Research income:

ANZICS-CTG /Collaborative Trials income (2017 calendar year) - \$68,678

Commercial Trial Income (2017 calendar year) - \$3385

Barwon Health Investigator-Initiated Research

- Defining Patient-Centred Recovery after Critical Illness – A Qualitative Study (Neil Orford) – 24 patients recruited in 2017. Recruitment complete, currently in write-up phase.
- iValidate Research Program - Identifying values, listening, and advising high-risk patients in acute care (Neil Orford). Ongoing audit/research program.
- Audit of Guillian Barre patients admitted to ICU (Andrew Tierney) – Audit complete, currently in write-up phase.

Industry Sponsored Research 2017 Calendar Year

ASPECT - A Prospective, Randomised, Double-Blind, Multicenter, Phase 3 Study to Assess the Safety and Efficacy of Intravenous Ceftolozane/tazobactam compared with Meropenem in Adult Patients with Ventilator-Associated Pneumonia.

- Barwon Health recruitment closed in 2017
- Revenue \$3385

Collaborative, Investigator-Initiated Research

ANZICS Clinical Trials Group Projects 2017	Participants Enrolled 2017	Income Generated 2017
ADRENAL - Adjunctive corticosteroid treatment in critically ill patients with septic shock	3	\$4450
Haemoglobin concentration and volume of intravenous fluids in septic shock in the ARISE trial.	N/A	N/A
LUCID - Liberal glucose control in critically ill patient with pre-existing type 2 Diabetes: a phase II multicentre randomised controlled trial	0 (Commenced Dec 2017)	\$0
PHARLAP - A multi-centre randomised controlled trial of an Open Lung Strategy including Permissive Hypercapnia, Alveolar Recruitment and Low Airway Pressure in patients with acute respiratory distress syndrome	1	\$1400
SPICE III - Sedation Practices in Intensive Care Evaluation Early Goal Directed Sedation Compared with Standard Care in Mechanically Ventilated Patients in Intensive Care	9	\$6600
STARRT-AKI - Standard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury	2	\$1400
TARGET - The Augmented versus Routine approach to Giving Energy Trial	88	\$51000
TRANSFUSE - Standard Issue Transfusion versus fresher red blood cell use in intensive care - a randomised controlled trial	Recruitment completed 2016	\$1100

Other Collaborative Projects

Other Collaborative Projects 2017	Participants Enrolled 2017	Income Generated 2017
Neb-Hep ALI - Nebulised Heparin for Lung Injury (St Vincent's Hospital Melbourne)	3	\$0 (to be paid in 2018)
PROTECTIN - PROspective TrEatment to Counter the Systemic InflammATory Response Syndrome with AspirIN (Austin Health)	1	\$600
REACT Shock - Relative Hypotension and Acute Kidney Injury In Patients with Shock (John Hunter Hospital)	6	N/A
EPIC 3 - Extended Prevalence of Infection in Intensive Care: a prospective, multi-centre, international 24hour point prevalence study (Erasmee University Hospital, Belgium)	17	N/A
Patient and population preferences for intensive care: Integrating the person into decisions around care. (Sir Charles Gairdner Hospital)	67	\$2000
Pressure Injury Prevention in the Intensive Care Unit (Alfred Health)	N/A	N/A
The 2017 Australian and New Zealand Severe Influenza Outbreak requiring Extracorporeal Membrane Oxygenation (Alfred Health)	5	N/A

New And Pending Projects For 2018

- ARTPN: Australasian Registry of the use of Parenteral Nutrition in Hospitalised patients (Canberra Hospital)
- Audit of Adult Retrieval Victoria Transfers (Ryan Schuster)
- Audit of Continuous Renal Replacement Therapy in ICU (Nima Kakho)
- Audit of patients presenting to ICU with Mental Health Issues (Matt Maiden)
- Beta-Lactam Infusion Group (BLING) III Study (ANZICS – CTG)
- Effect of denosumab on bone turnover markers in critically ill women - A safety and feasibility, randomised, placebo controlled trial – Commenced April 2018, two patients recruited. Intensive Care Foundation grant awarded. (Neil Orford)
- Intensive nutrition in critically ill adults: A pilot randomised controlled study (ANZICS-CTG)
- Outcomes of patients admitted to ICU with haematological malignancies in an Australian Tertiary hospital – a retrospective 10 year audit (Allison Bone)
- PRO-MEDIC: A randomised blinded placebo controlled trial of melatonin in Intensive Care patients for the prevention of delirium. Commenced January 2018, 2 patients recruited. (Sir Charles Gairdner Hospital)
- REMAP-CAP - Randomised Embedded Multifactorial Adaptive Platform Trial for Community-Acquired Pneumonia (ANZICS-CTG)
- TAME: Targeted Therapeutic Mild Hypercapnia after Resuscitated Cardiac Arrest: A Phase III Multi-Centre Randomised Controlled Trial. (ANZICS-CTG)
- TEAM: Treatment of invasively ventilated adults with Early Activity and Mobilisation trial. Commenced March 2018, 1 patient recruited. (ANZICS-CTG)
- VITAMINS: The Vitamin C, Hydrocortisone and ThiAMINE in Patients with Septic Shock Trial (Austin Health)

Significant Achievements

Development of protocol for first Barwon Health Led Phase 2 Interventional Study in Intensive Care Unit (ICU) patients (Effect of denosumab on bone turnover markers in critically ill women) and award of a research grant from the Intensive Care Foundation.

Enrolment of 140 patients in a Clinical Trial investigating nutrition in Intensive Care (TARGET).

Continuing our collaborative work with the Australia & New Zealand Intensive Care Society – Research Centre and with other ICU collaborators

Formalising research processes in Intensive Care (Research Management Portfolios) and supporting the implementation of a new Safety and Quality role in the ICU.

Professional Affiliations

- Monash University
- University of Adelaide
- Deakin University
- College of Intensive Care Medicine (CICM)
- South Australian Health and Medical Research Institute (SAHMRI)
- Australia & New Zealand Intensive Care Society – Research Centre (ANZICS-RC)
- Australia & New Zealand Intensive Care Society – Clinical Trials Group (ANZICS-CTG)
- ICU Research Coordinators Interest Group (IRCIG)

Peer Review

- Critical Care and Resuscitation
- Critical Care Medicine
- National Health and Medical Research Council (NHMRC) Project Grants
- NHMRC Fellowship Grants
- Australia & New Zealand Intensive Care Society (ANZICS) Annual Scientific Meeting
- College of Intensive Care Medicine (CICM) Annual Scientific Meeting

Students

Associate Professor Neil Orford

PhD

Bone Density in patients surviving admission to an Intensive Care Unit.

Amber Livingston

Master of Nursing

Excess oxygen delivery to mechanically ventilated patients and clinicians' decision making: A Multiple Methods Study Design.

Dr Jia Jee Yew

Masters

Oesophagectomy in an Australian Regional Hospital.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Commencing recruitment in many new studies which investigate various areas in Intensive Care Practice.
- Continuing collaborative work with Australia and New Zealand Intensive Care Society Clinical Trials Group (ANZICS-CTG), other institutions and other departments within Barwon Health.

Completion of the Denosumab study and submission of a NHMRC grant application for ongoing research in this area.



Oncology And Haematology

Therapeutic Area Focus

Cancer Services at Barwon Health has a long history of conducting Clinical Trials to a high standard, with a dedicated clinical trials unit established in 1997 at the Andrew Love Cancer Centre (ALCC) – the Haematology and Oncology Trials Team (HOTT).

The HOTT Research portfolio is clinically-based, and aimed at providing coverage for a wide range of haematological and oncological conditions. Trials are selected if they address important issues relevant to our patient population, provide access to novel therapies, add value and applicability to our local environment and are both scientifically and ethically sound.

Significant Achievements From July 2017-June 2018

- Recruitment targets have been reached, or significantly exceeded, on several studies and The Haematology/Oncology Clinical Trials have been able to recruit either the first patient globally or within Australia on a number of studies which they are involved in.
- Further expansion of early phase clinical trials within their portfolio across both haematology and medical oncology
- Inclusion and set up of registry studies within their portfolio across both haematology and medical oncology
- Formation of the Regional Trials Network in partnership with Cancer Trials Australia (CTA) and six other regional Victorian clinical trial sites. The outputs of this project are expected to increase; the number of available cancer clinical trials (CCTs) and participation rates, reduce duplication of effort and

to improve the efficiency in processes for start-up, ethics and undertaking CCTs in regional Victoria.

Looking Forward

Anticipated Highlights In The Next 12 Months – July 2018

- Completion of Project Love Pharmacy and Day Oncology Redevelopment. This expansion will mean that there will be a dedicated clinical trials area within the Day Oncology Unit and will provide the means and opportunity to centralise the supply of all clinical trial oral and parenteral dispensing. Dedicated Haematology/Oncology Clinical Trials Pharmacy Staff will be available to dispense and counsel patients and their carers about these medications.
- Expansion of Clinical Trial portfolio to include observational and health/patient reported outcomes research.
- Development of acumen for portfolio trial selection to ensure recruitment targets are always reached.
- Implementation of several initiatives to improve and streamline the clinical trials team working practices, such as the roll out of electronic site files and an overhaul and update of the electronic folders and filing system.
- Appointment of further core positions within the Trials Team to increase staffing currently lacking such as Administration and Ethics.
- Secure approval and funding for dedicated Haematology/Oncology Fellows within the Clinical Trials Team.
- Further implementation of a Clinical Trial Management System (CTMS) to allow robust financial tracking and workload planning.
- The celebration of International Clinical Trials Day in May 2018 at Parkville Cancer Clinical Trials Unit Conference Day, Victorian Comprehensive Cancer Centre.

Number Of Industry Sponsored Clinical Trials From July 2017 – June 2018

Number of Industry Sponsored Clinical Trials Feasibilities and Start-ups	(Phase1/Phase2/Phase3)	Participants Recruited	Income Generated 2017
3	Phase 1B	4	\$111,543.31
3	Phase 2	7	\$92,017.70
2	Phase 2/3	0	\$29,462.40
14	Phase 3	19	\$238,585.86

13

Industry Sponsored Haematology/Oncology Clinical trials were opened during the 2017/2018 financial year.

10

Industry Sponsored Haematology/Oncology Clinical trials were closed during the 2017/2018 financial year, in four of these studies we met or far surpassed our recruitment target, the most notable was one study which recruited 233% in excess of our target. The other six studies recruited between 33-83% of their targets, the average being 72%.

15

Industry Sponsored Haematology/Oncology Clinical trials remain open to accrual and are still looking for patients, of which there are 2 studies which have yet to recruit a patient.

Number Of Non-Sponsored Clinical Trials From July 2017-June 2018

Number of Industry Sponsored Clinical Trials Feasibilities and Start-ups	(Phase1/Phase2/Phase3)	Income Generated 2017
6	Phase 3	15
8	Phase 2	7
6	Registry Study	23
3	Investigator-Initiated	32

8

Non-sponsored Haematology/Oncology Clinical trials were opened during the 2017/2018 financial year.

7

Industry Non-sponsored Haematology/Oncology Clinical trials were closed during the 2017/2018 financial year, in all but one of these studies we failed to meet our recruitment target and only managing to put one patient across all six of these studies. In the final study we performed well recruiting 120% of our target. Choosing the right portfolio and selection of trials will need to be an area which sees improvement during the next financial year.

20

Industry Non-sponsored Haematology/Oncology Clinical trials remain open to accrual and are still looking for patients of which there are two studies which have yet to recruit a patient.

50
approx

Industry Non-sponsored Haematology/Oncology Clinical trials remain open to accrual and are still looking for patients of which there are two studies which have yet to recruit a patient.

Staff

Heads of Departments

Associate Professor Philip Campbell

MBChB MRCP MRCPATH FRACP FRCPA

Director of Cancer Services and Head of Haematology

Head of Medical Oncology

Dr David Campbell

MBBS FRACP

Head of Medical Oncology

Dr Graham Pitson

MBBS FRACR

Head of Radiation Oncology

Haematology Investigators

Dr Helen Fairweather FRACP FRCPA

Haematology Investigator

Dr Hannah Rose

MBBS FRACP

Haematology Investigator

Dr David Kipp

MBBS BMedSci FRACP FRCPA

Haematology Investigator

Dr Adam Friebe

MBBS

Haematology Investigator

Dr David Routledge

MSc MBChB BSc (Hons) PG Cert

Haematology Investigator

Dr Sumita Ratnasingam MBBS

Haematology Investigator

Medical Oncology Investigators

Dr Trish Banks

MBBS BSc (Hons)

Medical Oncology Investigator

Dr Anna Lomax

MBBS BSc

Medical Oncology Investigator

Dr Madhu Singh

MBBS FRACP

Medical Oncology Investigator

Dr Adam Broad

MBBS FRACP

Medical Oncology Investigator

Dr Catherine Oakman

MBBS FRACP

Medical Oncology Investigator

Dr Karen White

MBBS FRACP
Medical Oncology Investigator

Dr David Campbell

MBBS FRACP
Medical Oncology Investigator

Dr Inger Olesen

MBBS FRACP
Medical Oncology Investigator

Dr Shu Fen Wong

MBBS FRACP
Medical Oncology Investigator

Radiation Oncology Investigators

Dr Michael Francis

MBBS FRACP
Radiation Oncology Investigator

Dr Andrew Hui

MBBS M Med (ClinEpi)
Radiation Oncology Investigator

Dr Maitham Mathlum

MBChB FRANZCR
Radiation Oncology Investigator

Dr Graham Pitson

MBBS FRACP
Radiation Oncology Investigator

Dr Rod Lynch

BMedSc MBBS FRACR MRACMA
Radiation Oncology Investigator

Clinical Trial Managers, Coordinators and Project Officer/s

Violet Mukaro

B.LabMed (Hons) PhD
Project Officer

Elesha Parigi

BSc (Hons)
Clinical Trial Coordinator

Sharon Jones

BSc (Hons) MSc
Clinical Trial Coordinator

Tina Smith

BSc
Clinical Trial Coordinator

Seamus Wilson

RN
Clinical Trial Coordinator

Dr Lea-Anne Harrison

BSc (Hons) PhD
Clinical Trials Manager

Iwona Riches

RN
Clinical Trial Coordinator

Adele Stronach

BSc (Hons)
Clinical Trial Coordinator

Data Managers

Scott Betteridge

BSc MSc PhD
Data Manager

Sonja Gauci

BSc
Data Manager

Katrina Golden

BN
Data Manager

Amy Dang

BSc (Hons) Postgraduate Diploma in Computer Science

Andrea Dozzi

Grad Cert Clinical Trials Management
Clinical Trials Assistant

Katherine Snowdon

BSc BPharm MHSM
Clinical Trials Pharmacist

Melanie Giddings

BN Grad Cert
Data Manager

A network of white nodes and lines on a red background, resembling a molecular structure or a data network. The nodes are small spheres, and the lines are thin, connecting the nodes in a complex, interconnected pattern. The background is a solid red color with a slight gradient.

SECTION

6

A SNAPSHOT OF
AUSTRALIAN CONFERENCES



A Snapshot Of National Conferences

Australian New Zealand Society of Geriatric Medicine (Aged Care)

- Sydney, NSW
- June 27-29, 2018
- Poster
- Appropriateness of medication prescribing in a Barwon Health Aged Care Facility
- You A, Weeks G, Bortoletto D, Low A

Australian New Zealand Society of Geriatric Medicine (Aged Care)

- Sydney, NSW
- June 27-29, 2018
- Poster
- Delirium in Hospitalised Elderly People
- L. Nacey, R. Crone, A. Low, A. Hutchison

Barwon Health Research Week (Aged Care)

- Geelong, VIC
- November 2017
- Poster
- Cause of Death in Hospitalised people with dementia: a retrospective audit
- T Haque

Australian and New Zealand Society of Nuclear Medicine (ANZSNM) 2018 (BMI)

- Evaluation of clinical risk factors which may predict regional, nodal and metastatic disease on 68Ga PSMA PET/CT. Retrospective analysis of 177 consecutive patients
- Dr S Lee

Society of Nuclear Medicine and Molecular Imaging (SNMMI) 2018 (BMI)

- Evaluation of clinical risk factors which may predict regional, nodal and metastatic disease on 68Ga PSMA PET/CT.
- Dr S Lee

Royal Australian and New Zealand College of Radiologists (RANZCR) Annual Scientific Meeting (BMI)

- Canberra, ACT
- October 25-28, 2017
- Examining Clinical Utility of Imaging for Inpatient Palliative Care
- Dr Anthony Cardin

Royal Australian and New Zealand College of Radiologists (RANZCR) Annual Scientific Meeting (BMI)

- Canberra, ACT
- October 25-28, 2017
- Computed Tomography (CT) for Acute Appendicitis and Correlation with Alvarado Score.
- Dr Anthony Cardin

World Federation of Nuclear Medicine and Biology (WFNMB) 2018 (BMI)

- Melbourne, VIC
- April 20-24, 2018
- Radioactive iodine therapy in hyperthyroid patients with cold nodules on thyroid scintigraphy but without prior fine needle aspiration
- Dr Dickson Ma

Clinical Oncology Society of Australia

- Brisbane, QLD
- November 13-15, 2017
- Oral
- Awarded Best Presentation in Session
- Population-based analysis of radiotherapy and chemotherapy treatment in the last month of life
- G Pitson, LM Matheson, B Garrard, MJ Rogers

Clinical Oncology Society of Australia

- Brisbane, QLD
- November 13-15, 2017
- Poster and Mini Oral
- Using data to drive change. Evaluation of Cancer Outcomes Barwon South West Registry
- G Pitson, LM Matheson, V Mukaro, B Garrard, MJ Rogers

Clinical Oncology Society of Australia

- Brisbane, QLD
- November 13-15, 2017
- Poster
- Establishing clinical quality indicators for lung cancer in the Barwon South West Regions: Outcomes from 2009 to 2014
- G Pitson, M Kim, LM Matheson, B Garrard, M Francis, A Broad, J Malone, P Eastman, CH Yap, MJ Rogers.

Victorian Integrated Cancer Services Conference

- Melbourne, VIC
- May 11-12, 2017
- Multidisciplinary meetings in the treatment of breast cancer
- G Pitson, LM Matheson, B Garrard, B Maher, S Cowderly, W Luo, M Reed, S Riches, D Ashley and MJ Rogers

Victorian Integrated Cancer Services Conference

- Melbourne, VIC
- May 11-12, 2017
- Poster
- Breast cancer clinical indicators
- G Pitson, L Matheson, D Campbell, B Garrard, IM Collins, V Mukaro,, G Mitchell, S Riches, D Ashley and MJ Rogers

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Perth, WA 2017
- Oral
- Outcomes after Percutaneous Coronary Intervention (PCI) in Patients with Prior Coronary Artery Bypass Grafts (CABG)
- Bharat Kialani

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Perth, WA 2017
- Perth, WA 2017
- Oral
- Central Chest Pain and ST Elevation: A Curious Case of a Negative Troponin
- Rohit Varghese Samuel

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Brisbane, QLD 2018
- Oral
- Long Term Follow Up of Bioabsorbable Scaffolds: A Single Centre Experience.
- Bharat Kialani

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Brisbane, QLD 2018
- Oral
- Trends in vascular access for patients undergoing percutaneous coronary intervention in Australia. A report from the Melbourne Interventional Group (MIG) Cohort.
- Bharat Kialani

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Brisbane, QLD 2018
- Oral
- Learning curves for transradial and transfemoral coronary angiography amongst cardiology trainees.
- Bharat Kialani

The Cardiac Society of Australia and New Zealand (CSANZ) (Cardiology)

- Brisbane, QLD 2018
- Oral
- Prevalence of familial hypercholesterolaemia in acute coronary syndrome patients in a large regional coronary care unit
- Rohit Varghese Samuel

Monash Health Dental Services (Oral Health)

- Dandenong, VIC, March 2, 2018
- Oral
- A novel screening for diabetes in the community dental clinic
- MJ Rogers

57th Annual Scientific Meeting of IADR Australian & New Zealand Division

- (Oral Health)
- Adelaide, SA September 25-27, 2017
- Oral
- To determine the feasibility of screening for diabetes in the Colac Community Dental Clinic in Victoria.
- M Smith

The Health Roundtable (Oral Health)

- Brisbane, QLD July 26-27, 2017
- Oral
- Embracing change in the dental practice to deliver better health outcomes – A Type 2 diabetes screening and oral health pilot program
- MJ Rogers

Dental Health Services Victoria

- Gippsland Regional Forum
- (Oral Health)
- Moe, VIC December 12, 2017
- Oral
- Wide Smiles, Improving Children's Health
- M Smith

Dental Health Services Victoria

- Hume/Loddon Regional Forum
- (Oral Health)
- Barooga, NSW February 7, 2018
- Oral
- Wide Smiles, Improving Children's Health
- M Smith

Dental Health Services Victoria & Barwon South West/ Grampians Regional Forum (Oral Health)

- Sebastopol, VIC
- November 28, 2017
- Oral
- Wide Smiles, Improving Children's Health
- M Smith

2017 National Allied Health Conference (Oral Health)

- Sydney, NSW August 26-29, 2017
- 2017
- Oral
- Embracing Change in dentistry to deliver better health outcomes - diabetes and oral health pilot project
- MJ Rogers

The Australian Diabetes in Pregnancy Meeting (Endocrinology)

- Canberra, ACT, October 20 – 22, 2017
- Dr Myra Yeo

The Endocrine Society of Australia Clinical Weekend, Endocrine Society of Australia Annual Scientific Meeting and Australian Diabetes Society Annual Scientific Meeting (Endocrinology)

- Perth, WA ,
- September 25 - 1 October 2017.
- Dr Elizabeth George
- Dr Florence Gunawan
- Dr Daniela Chan
- Dr Aaron Choy
- Dr Michael McNamara

Australian New Zealand Society of Geriatric Medicine (Geriatrics)

- Sydney, NSW June 27-29, 2018
- Poster
- Appropriateness of medication prescribing in a Barwon Health Aged Care Facility
- You A, Weeks G, Bortoletto D, Low A

Australian New Zealand Society of Geriatric Medicine (Geriatrics)

- Sydney, NSW June 27-29, 2018
- Poster
- Delirium in Hospitalised Elderly People
- L. Nacey, R. Crone, A. Low, A. Hutchinson

Barwon Health Research Week (Geriatrics) Geelong, VIC November, 2017

- Poster
- Cause of Death in Hospitalised people with dementia: a retrospective audit
- T. Hague

Occupational Therapy Australia VIC-TAS Regional Conference (Hospital Admission Risk Program -HARP)

- Melbourne, VIC June 28-29, 2018
- Oral
- A mixed-methods study into the quality and effectiveness of a regional care coordination service for people living with complex needs: Implications for inclusive occupational therapy
- Pereira RB, Byrnes J (Manager, Barwon Health Drug and Alcohol Service), Brown TL, Stevens J

Occupational Therapy Australia VIC-TAS Regional Conference (Hospital Admission Risk Program -HARP)

- Melbourne, VIC June 28-29, 2018
- Oral
- Applying the Capabilities, Opportunities, Resources and Environments (CORE) approach to the inclusive occupational therapy process: Introducing a new Australian values-based practice model
- Pereira RB, Naismith J (Occupational Therapist, Barwon Health)

2018 Victorian and Tasmanian Regional Conference Of Occupational Therapy Australia (HARP) Crown Promenade Hotel

- Melbourne, VIC
- June 29-30, 2018
- Oral

Victorian Integrated Care Forum (Healthlinks and Personalised Health Care)

- June, 2017
- Oral
- Stevens, Jo

Australian Disease Management Association (Healthlinks and Personalised Health Care)

- Darwin, NT
- September 12-13, 2017
- Oral

- Personalised tele-health intervention for chronic disease long-term management: A randomised controlled trial

The Endocrine Society of Australia Clinical Weekend, Endocrine Society of Australia Annual Scientific Meeting and Australian Diabetes Society Annual Scientific Meeting (Endocrinology)

- Perth, WA
- August 25 -01, September 2017
- Dr Aaron Choy

Australian Partnership for Preparedness Research on Infectious Disease Emergencies (APPRISE) Annual Meeting (GCEID)

- Sydney, NSW August 15, 2017
- Oral
- Surveillance at the animal-human interface
- Alexandersen, S

Wildlife Disease Association Australasia Conference 2017 (GCEID)

- Falls Creek, VIC
- September 24-29, 2017
- Oral
- Detection and characterisation of coronaviruses in Australian resident and migratory avian species
- Chamings, A

Wildlife Disease Association Australasia Conference 2017 (GCEID)

- Falls Creek, VIC
- September 24-29, 2017
- Oral
- Metagenomics of viruses in Australian wild birds
- Vibin, J

9th International Global Virus Network Meeting (GCEID)

- Melbourne, VIC
- September 25-27, 2017
- Oral
- An Australian recombinant strain of human parechovirus 3
- Alexandersen, S

Viruses in May (GCEID)

- Katoomba, NSW
- May 17-19, 2018
- Oral
- Molecular epidemiology of human parechovirus in Australia and globally
- Chamings, A

Infection Control (Infectious Diseases)

- Canberra, NT
- October, 2017
- Oral
- Infection Control in Endoscopy
- E Athan

Forbes week (Infectious Diseases)

- Melbourne, VIC
- November, 2017
- Oral
- Influenza, Staph aureus
- E Athan, C Botheras, A Tai

Renal Society of Australasia Seminar (Nephrology)

- Traralgon, VIC
- Oral
- SONG-HD
- Agar JWM

Renal Society of Australasia (Nephrology)

- Sydney, NSW
- June, 2017
- Oral
- Overcoming financial barriers for home dialysis patients – the first step
- Brimley K, Chow J, Simmonds R

Victorian Renal Clinical Network Conference (Nephrology)

- Melbourne, VIC
- September, 2017
- Oral
- Improving patient experience with the use of portable ultrasound in a home haemodialysis population.
- Simmonds, R

Victorian Renal Clinical Network Conference (Nephrology)

- Melbourne, VIC
- September, 2017
- Oral
- Use of recycled plastic waste from the dialysis unit to engineer improved concrete
- Agar, JWM

Australia and New Zealand Society of Nephrology Annual Scientific Meeting (Nephrology)

- Darwin, NT
- September, 2017
- Poster

- Survival on haemodiafiltration (Nephrology Special Issue 22 (Supplement 3) p25 Sept 2017)
- Agar, JWM

Australia and New Zealand Society of Nephrology Annual Scientific Meeting (Nephrology)

- Darwin, NT
- September, 2017
- Poster
- Uptake of haemodiafiltration (Nephrology Special Issue. 22 (Supplement 3) p14 Sept 2017)
- Agar, JWM

Australia and New Zealand Society of Nephrology Annual Scientific Meeting (Nephrology)

- Darwin, NT
- September, 2017
- Poster
- Individualised Fluid Allowance Calculator ... (Nephrology Special Issue 22 (Supplement) Sept 17)
- Agar, JWM

Barwon South Western (BSW) & Grampians Allied Health (AH) Conference (Occupational Health)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Erin O'Shanassy & Amy Kelly

Australian Orthopaedic Association Scientific Congress (Orthopaedics)

- Adelaide, SA
- October 8 -12, 2017
- Oral
- Long term outcomes following infected rotator
- Cuff repair: results of a 10-year review
- Reverse total shoulder arthroplasty for the
- treatment of humeral fracture: an AOA National
- Joint Replacement Registry analysis
- Primary reverse glenosphere size affects revision
- rates: an AOA National Joint Replacement
- Registry analysis
- Evaluating interventional embolisation of
- neovessels improving OA knee pain (EIEIO) preliminary data
- Shoulder arthroplasty update
- Asaid R, Page R
- Maister N, Landers S, Hely H, Harrison B, Hely R, Gill S, Page R

Palliative Care Victoria Volunteers Conference (Palliative Care)

- Melbourne, VIC
- May 24, 2018
- Oral
- Development of a Life Story program utilising volunteers
- Jennifer Walsh

Palliative Care Victoria Volunteers Conference (Palliative Care)

- Melbourne, VIC
- May 24, 2018
- Oral
- Backyard Blitz*
- Jennifer Walsh

5th Australian Palliative Care Research Colloquium (Pharmacy)

- Melbourne, VIC
- October 26-27, 2017
- Poster
- Stakeholder Perspectives and Suggestions for a Palliative Care Pharmacy Service within a Community-Based Palliative Care Service
- Lisha Kuruvilla , Greg Weeks, Johnson George

Barwon South Western and Grampians Allied Health Conference. (Pharmacy)

- Warrnambool, VIC
- May 31 , 2018
- Oral
- Regional Palliative Care Partnerships – A pharmacy Outreach Program
- Lisha Kuruvilla, Greg Weeks, Johnson George

Barwon South Western and Grampians Allied Health Conference. (Pharmacy)

- Warrnambool, VIC
- May 31 , 2018
- Poster
- Appropriateness of antibiotic prescribing in admitted patients diagnosed with community acquired pneumonia (CAP)
- Tommy Sperac, Alicia Neels, Diana Bortoletto, James Pollard

Geelong Nurses conference. (Pharmacy)

- Geelong, VIC
- December 15, 2017
- Oral
- Polypharmacy and the prescribing cascade
- Lisha Kuruvilla

Australian and New Zealand Society for Geriatric Medicine (Pharmacy).

- Sydney, NSW
- June 27-29, 2018
- Poster
- Appropriateness of medication prescribing in a regional residential aged care facility (RACF) ward.
- Angie You, Greg Weeks, Adrian Low, Diana Bortoletto

Medicines Management 2017 43rd National Conference Society of Hospital Pharmacists of Australia. (Pharmacy)

- Sydney, NSW
- November 16-19, 2017
- Oral
- Opioid supply on hospital discharge: a multi-perspective review of prescribing practices at a Victorian hospital
- Puji Faitna, Ashleigh Baird, Matthew Hollett, Laura Kavanagh, Jill Wickham, Diana Bortoletto, Marissa Izzard

Medicines Management 2017 43rd National Conference Society of Hospital Pharmacists of Australia. (Pharmacy)

- Sydney, NSW
- November 16-19, 2017
- Oral
- Therapeutic plasma exchange and its effect on phenytoin in an intensive care patient
- Tenay Rankin, Rachel Fyfe Claire Jones

Medicines Management 2017 43rd National Conference Society of Hospital Pharmacists of Australia (Pharmacy).

- Sydney, NSW
- November 16-19, 2017
- Poster
- Thunderstorm and other factors leading to asthma admissions in a regional hospital
- Linda Van den Goor, Greg Weeks, Elida Zairina, Johnson George

Medicines Management 2017 43rd National Conference Society of Hospital Pharmacists of Australia. (Pharmacy)

- Sydney, NSW
- November 16-19, 2017
- Poster
- What are hospitals looking for when recruiting intern pharmacists? A national survey of decision makers
- Daniel Guidone, Diana Bortoletto

Barwon South Western and Grampians Allied Health Conference 2018 (Physiotherapy)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Encouraging activity: Barriers and facilitators for subacute stroke survivor
- Natasha Selenitsch

Barwon South Western and Grampians Allied Health Conference 2018 (Physiotherapy)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Telehealth: Clinician utilisation and perceptions in spinal community rehabilitation
- Jane Dow

Barwon South Western and Grampians Allied Health Conference 2018 (Physiotherapy)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Volunteers: A useful team member for increasing subacute activity levels
- Natasha Selenitsch

Barwon South Western and Grampians Allied Health Conference 2018 (Physiotherapy)

- Warrnambool, VIC
- May 31, 2018
- Oral
- A hydrotherapy class audit: Should we focus on low performers
- Damon Burn

Barwon South Western and Grampians Allied Health Conference 2018 (Physiotherapy)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Strategies to enhance physiotherapy student
- Engagement in nonmetropolitan clinical
- placement
- Emma Edwards

Western Alliance Symposium (Physiotherapy) Warrnambool, VIC

- September 6-8, 2017
- Post-arthroplasty review: can we replace outpatient appointments with a remote review model?
- Bill Reynolds

**National Allied Health Conference (Podiatry)
Sydney, NSW**

- August 16, 2017
- Poster
- Testing the reliability of the Foot Care Abilities Questionnaire (F-CAQ) to measure change in a small sample group.
- Tina Loxley

Barwon South West Region and Grampians Allied Health Conference (Podiatry)

- Warrnambool, VIC
- May 31, 2018
- Oral
- High Risk Foot Clinic rotations for podiatry staff outcomes.
- Carol Mioduchowski

Barwon South West Region and Grampians Allied Health Conference (Podiatry)

- Warrnambool,
- VIC May 31, 2018
- Oral
- Allied Health involvement in the skin integrity championship program.
- Genevieve Arblaster

Barwon South West Region and Grampians Allied Health Conference (Podiatry)

- Warrnambool, VIC
- May 31, 2018
- Oral
- Investigating the safe positioning of clients within the podiatry clinics.
- Lisa Edwards

**Victorian Podiatry Association Conference (Podiatry)
Melbourne, VIC**

- April 27, 2018
- Oral
- Engagement in the health system
- Carol Mioduchowski

Australian Diabetes Society (ADS) and the Australian Diabetes Educators Association (ADEA) Annual Scientific Meeting (Psychiatry)

- Perth, WA
- August 30 - 01 September 2017
- Poster
- The incidence, frequency and length of stay for all-cause hospitalisation in adults with impaired fasting glucose and diabetes mellitus: a longitudinal study.

- Sajjad MA, Holloway KL, De Abreu LLF, Mohebbi M, Kotowicz MA, Pedler D, Pasco JA.

PsyAcademy (Psychiatry)

- Melbourne, VIC
- September 09, 2017
- Oral
- Diet and mental health.
- Jacka FN.

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- Early response to lithium augmentation associated with mTOR activation in peripheral blood mononuclear cells in rodent model of antidepressant-resistance.
- Walker A, Price J, Borreggine K, Sutor S, Gogos A, McGillivray J, Frye M, Tye S.

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- Online lifestyle interventions for depressed populations: a systematic review.
- Young C, Trapani K, Dawson S, O'Neil A, Kay-Lambkin F, Berk M, Jacka F

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- Substance use outcomes in a randomised controlled trial of N-acetylcysteine and other mitochondrial agents in bipolar depression.
- Turner A, Dean OM, Malhi G, Ng C, Cotton SM, Dodd S, Sarris J, Mohebbi M, Berk M.

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- Dietary tryptophan and bone in older women: a cross-sectional study.
- Cleminson JR, Stuart AL, Pasco JA, Hodge JM, Williams LJ.

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC

- September 15-17, 2017
- Posters and Orals
- Common Mental Disorders and Cancer Onset: A Nested Case Control Study of Men and Women.
- Cowdery S, Stuart AS, Green D, Berk M, Ashley D, Pasco JA, Williams LJ

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- Antibiotics in psychiatry.
- Dean O.

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- MoodSwings 2.0: Outcomes of an international randomised controlled trial.
- Gliddon E, Cosgrove V, Berk L, Lauder S, Mohebbi M, Grimm D, Dodd S, Coulson C, Raju K, Suppes

Australasian Society for Bipolar and Depressive Disorder (ASBDD) (Psychiatry)

- Melbourne, VIC
- September 15-17, 2017
- Posters and Orals
- The role of discussion forum engagement within an online self-help program for bipolar disorder
- Gliddon E, Cosgrove V, Grimm D, Dodd S, Suppes T, Berk M.

Australasian Society of Lifestyle Medicine (Psychiatry)

- Sydney, NSW
- September 17, 2017
- Oral
- Diet and mental health.
- Jacka FN.

RANZP Tasmanian Branch

- Tasmania,
- September 26-27, 2017
- Oral
- Diet and mental health.
- Jacka FN.

Fernwood Fitness National Conference

- Queensland
- October 12, 2017

- Oral
- Diet and mental health.
- Jacka FN.

International Federation of Psychiatric Epidemiology (IFPE). (Psychiatry)

- Melbourne, VIC
- October 17-20, 2017
- Posters and Orals
- Dietary tryptophan and bone in older women: a cross-sectional study. POSTER
- Cleminson JR, Stuart AL, Pasco JA, Williams LJ, Hodge JM, Berk M.

International Federation of Psychiatric Epidemiology (IFPE). (Psychiatry)

- Melbourne, VIC
- October 17-20, 2017
- Posters and Orals
- Common mental disorders and cancer onset: a nested case control study of women. ORAL
- Cowdery S, Stuart AL, Green D, Berk M, Ashley D, Pasco JA, Williams LJ.

International Federation of Psychiatric Epidemiology (IFPE). (Psychiatry)

- Melbourne, VIC
- October 17-20, 2017
- Posters and Orals
- Feasibility of participants providing stool samples when displaying anxiety or depressive symptoms.
- Davis J, Stuart AL, Jacka FN, Chandrasekaran V, Pasco JA.

International Federation of Psychiatric Epidemiology (IFPE). (Psychiatry)

- Melbourne, VIC
- October 17-20, 2017
- Posters and Orals
- Positive and negative affect in association with falls.
- Pasco JA, Holloway KL, Rufus PG, Sui SX, Williams LJ.

International Federation of Psychiatric Epidemiology (IFPE). (Psychiatry)

- Melbourne, VIC
- October 17-20, 2017
- Posters and Orals
- Personality disorder and physical health comorbidities: A link with bone health?
- Williams LJ, Stuart AL, Quirk SE, Pasco JA, Brennan-Olsen SL, Hodge JM, Chandrasekaran V, Berk M.

The Australian and New Zealand Neuropsychiatry and Behavioural Neurology Conference. (Psychiatry)

- Sydney, NSW

- October 27-28, 2017
- Oral
- Diet and mental health.
- Jacka FN.

Health Matters: Clinical weekend meeting sponsored by Servier Foundation. (Psychiatry)

- Melbourne, VIC
- November 11-12, 2017
- Oral
- Prescribing a diet to treat depression.
- Jacka FN.

Australian and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR). (Psychiatry)

- Adelaide, SA
- November 24-25, 2017
- Posters and Orals
- Using falls data to identify patterns in the environment and circumstances of injurious falls among older community-dwelling women. POSTER
- Lim K, Sanders KM, Connaughton C, Naureen G, Stuart AL, Scott D, Nicholson GC, Busja L.

Australian and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR). (Psychiatry)

- Adelaide, SA
- November 24-25, 2017
- Posters and Orals
- Profile of musculoskeletal health among the retirees demographic. POSTER
- Pasco JA, Holloway KL, Hyde NK, Kotowicz MA, Tembo MC, Rufus PG, Sui SX, Berk M.

Australian and New Zealand Society for Sarcopenia and Frailty Research (ANZSSFR). (Psychiatry)

- Adelaide, SA
- November 24-25, 2017
- Posters and Orals
- Frailty and fracture risk in older women. ORAL
- Tembo MC, Holloway KL, Williams LJ, Sui SX, Brennan-Olsen SL, Kotowicz MA, Hosking SM, Pasco JA.

Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT). (Psychiatry)

- Brisbane, QLD
- December 5-8, 2017
- Poster
- Health literacy and uptake of anti-fracture medications in a population-based sample of Australian women.
- Hosking SM, Brennan-Olsen SL, Beauchamp A, Buchbinder R, Williams LJ, Pasco JA.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Personality disorder as a predictor of functional outcomes in patients with major depressive disorder.
- Kavanagh B.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Association between bipolar spectrum disorder and bone health: a meta-analysis and systematic review.
- Chandrasekaran V, Brennan-Olsen SL, Stuart AL, Pasco JA, Berk M, Hodge JM, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Society for Mental Health Research Conference (SMHR). (Psychiatry)
- Canberra, ACT, December 6-8, 2017 Posters and Orals
- Serotonin pre-cursor, tryptophan, and bone in women and men of the Geelong Osteoporosis Study (GOS).
- Cleminson JR, Stuart AL, Pasco JA, Hodge JM, Berk M, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Mood disorders and cancer onset: A nested case-control study of women.
- Cowdery SP, Stuart AL, Green D, Berk M, Ashley D, Pasco JA, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT,
- December 6-8, 2017 (SMHR). (Psychiatry)
- Posters and Orals
- The subjective wellbeing profile among the pre-tiree demographic.
- Pasco JA, Holloway KL, Stuart AL, Sui SX, Williams LJ, Berk M.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Personality disorder is an excess risk factor for physical multimorbidity among women with mental state disorders.
- Quirk SE, Stuart AL, Berk M, Pasco JA, Brennan Olsen SL, Koivumaa-Honkanen H, Honkanen R, Lukkala PS, Chanen AM, Kotowicz MA, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Bipolar disorder and pain in adult women: A case-control study.
- Stuart AL, Berk M, Pasco JA, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Personality disorder is an excess risk factor for physical multimorbidity among women with mental state disorders.
- Williams LJ, Quirk SE, Stuart AL, Berk M, Brennan-Olsen SL, Koivumaa-Honkanen H, Honkanen R, Lukkala PS, Chanen AM, Kotowicz MA, Pasco JA.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Mood disorders, psychotropic use and bone health: An overview
- Williams LJ, Pasco JA, Hodge JA, Berk M

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Mood Disorders and Cancer Onset: A Nested Case Control Study of Women.
- Stephanie P Cowdery, Amanda L Stuart, Michael Berk, David Campbell, Julie A Pasco and Lana J Williams (oral)

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT

- December 6-8, 2017
- Posters and Orals
- Personality disorder is an excess risk factor for physical multimorbidity among women with mental state disorders.
- Quirk SE, Stuart AL, Berk M, Pasco JA, Brennan Olsen SL, Koivumaa-Honkanen H, Honkanen R, Lukkala PS, Chanen AM, Kotowicz MA, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Bipolar disorder and pain in adult women: A case-control study.
- Stuart AL, Berk M, Pasco JA, Williams LJ.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Personality disorder is an excess risk factor for physical multimorbidity among women with mental state disorders.
- Williams LJ, Quirk SE, Stuart AL, Berk M, Brennan-Olsen SL, Koivumaa-Honkanen H, Honkanen R, Lukkala PS, Chanen AM, Kotowicz MA, Pasco JA.

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Mood disorders, psychotropic use and bone health: An overview
- Williams LJ, Pasco JA, Hodge JA, Berk M

Society for Mental Health Research Conference (SMHR). (Psychiatry)

- Canberra, ACT
- December 6-8, 2017
- Posters and Orals
- Mood Disorders and Cancer Onset: A Nested Case Control Study of Women.
- Stephanie P Cowdery, Amanda L Stuart, Michael Berk, David Campbell, Julie A Pasco and Lana J Williams (oral)

Melbourne Forum (Psychiatry)

- Melbourne, VIC
- February 13, 2018
- Oral
- Can we prevent depression by improving diet?
- Jacka F

World Psychiatric Association (Psychiatry)

- Melbourne, VIC
- February 25-28, 2018
- Posters and Orals
- Association between bipolar spectrum disorder and bone health: a systematic review.
- Chandrasekaran V, Brennan-Olsen SL, Stuart AL, Pasco JA, Berk M, Hodge JM and Williams LJ.

World Psychiatric Association (Psychiatry) Melbourne, VIC

- February 25-28, 2018
- Posters and Orals
- Food & Mood
- McGuinness A, Hockey M

World Psychiatric Association (Psychiatry) Melbourne, VIC

- February 25-28, 2018
- Posters and Orals
- Food & Mood
- McGuinness A, Hockey M

Operation Newstart Western (Psychiatry)

- Melbourne, VIC
- March 07, 2018
- Oral
- Food and mood
- Tetyana Rocks

GMHBA (Psychiatry)

- Geelong, VIC
- March 13, 2018
- Oral
- Diet and the gut in mental and brain health
- Jacka F

Rotary Health Australia (Psychiatry)

- Margaret River, WA
- March 17, 2018
- Oral
- Diet and mental health
- Tetyana Rocks

Servier: Dialogues in Psychiatry (Psychiatry)

- Sydney, NSW,
- March 18, 2018
- Oral
- Diet and the gut in mental and brain health
- Jacka F

Australian Disease Management Association (Psychiatry)

- Melbourne, VIC March 23, 2018
- Oral
- Diet in prevention of mental health disorders
- Tetyana Rocks

Headspace Forum (Psychiatry)

- Melbourne, VIC
- March 31, 2018
- Oral
- Diet and the gut in mental and brain health
- Jacka F

Barwon Health Nutrition and Dietetic Department(Psychiatry)

- Geelong, VIC
- April 17, 2018
- Oral
- An Online Dietary Intervention targeting Gut Health for Improvement of Depressive Symptoms: Development, Optimisation & Feasibility Study (ePoster)
- Young C

GMHBA (Psychiatry)

- Bendigo, VIC
- April 17, 2018
- Oral
- Diet and the gut in mental and brain health
- Jacka F

Moreland City Council Coburg Library (Psychiatry)

- Melbourne, VIC
- April 30, 2018
- Oral
- Good Food for Good Mood
- McGuinness A, Hockey M

Prince of Wales Hospital (Psychiatry)

- Sydney, NSW
- May 01, 2018
- Oral
- Depression & diet: Can we improve mental health through diet & supplements?
- Jacka F

Sacred Heart College (Psychiatry)

- Geelong, VIC
- May 02, 2018
- Oral
- Mind on nutrition - the science behind how what you eat, influences your mood
- McGuinness A, Hockey M

St Vincent's Hospital Melbourne Department of Gastro GECCO Dinner (Psychiatry)

- Geelong, VIC
- May 03, 2018
- Oral
- Diet for Mental and Brain Health across the lifecourse
- Jacka F
- Nutrition Association of Australia (Psychiatry)
- Newcastle, NSW
- March 04, 2018
- Oral
- Diet as a modifiable factor in mental health disorders
- Tetyana Rocks

Deakin University (Psychiatry)

- Geelong, VIC
- May 07, 2018
- Oral
- The role and therapeutic potential of diet and the gut microbiota in brain and behaviour
- Tetyana Rocks

Florey Institute (Psychiatry)

- Melbourne, VIC
- May 09, 2018
- Oral
- Diet for Mental and Brain Health across the lifecourse
- Jacka F

WOW11 (Psychiatry)

- Queensland,
- May 11, 2018
- Oral
- Depression & diet: Can we improve mental health through diet & supplements?
- Jacka F

Department of Health and Human Services (Psychiatry)

- Melbourne VIC
- May 16, 2018
- Oral
- Diet and mental health

- Tetyana Rocks

Deakin University (Psychiatry)

- Burwood, VIC
- May 16, 2018
- Oral
- Ketogenic diet in psychotic disorders: a study protocol for a pilot intervention study (PsyDiet)
- Ruusunen A

Abbeyfield Australia Ltd (Psychiatry)

- Melbourne, VIC
- May 17, 2018
- Oral
- Diet and the gut in mental and brain health
- Jacka F

Partners in Prevention (Psychiatry)

- Geelong, VIC
- May 22, 2018
- Oral
- Educating practitioner on diet for mental health: barriers and challenges
- Tetyana Rocks

Moreland City Council - Glenroy Library (Psychiatry)

- Melbourne, VIC
- May 31, 2018
- Oral
- Mind on nutrition - the science behind how what you eat, influences your mood
- McGuinness A, Hockey M

Sacred Heart College (Psychiatry)

- Geelong, VIC
- June 28, 2018
- Oral
- Healthy Living Breakfast- Food & Mood
- Hockey M

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 08, 2017
- Presentation
- Indicators and Metrics from East Timor
- Professor Glenn Guest

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- OAGB – How I prevent/treat bile reflux
- Mr Darrin Goodall-Wilson

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- ANZES Presidential Debate
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- That Thyroid Surgery should be performed by high volume surgeons - affirmative
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Stan Sidhu (Sydney) vs. David Watters (Geelong)
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Rural Surgery – When scope of practice must be extended whilst safety and quality are assured
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Appendectomy – Surgery or no surgery?
- Professor Glenn Guest

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Post Hoc Ergo Propter Hoc. Retrospective analysis of unplanned return to theatre from 2013-2015 at UHG
- Dr Masoomah Khajehnoori

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Nauru & the Royal Australasian College of Surgeons (RACS) Pacific Islands Project (PIP): A 10-year retrospective analysis on the delivery of vascular access surgery and survival outcomes. (Posters x 3 Viewed on screens in the Exhibition area and on Virtual Congress)
- Dr Matthew Stokes

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA
- May 09, 2017
- Presentation
- Furthering the evidence for the cost-effectiveness of visiting RACS ASC surgical services in the Pacific region
RACS ASC: A retrospective review of urology RACS ASC services from the RACS Pacific Island Project
- Mr Dominic Bagguley

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 09, 2017
- Presentation
- Furthering the evidence for the cost-effectiveness of visiting surgical services in the Pacific region: A retrospective review of cardiothoracic services from the RACS PIP
- Mr Morgan Short

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 09, 2017
- Presentation
- Furthering the evidence for the cost-effectiveness of visiting surgical services in the Pacific region: A retrospective review of ophthalmic services from the RACS PIP
- Mr Andrew Fordyce

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 10, 2017
- Presentation
- Creating a good Surgical Culture
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 10, 2017
- Presentation
- Female Surgeons of the 17th and 18th centuries
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 11, 2017
- Presentation
- Rural Surgery: Where will the trainees be trained?
- Professor Glenn Guest

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 11, 2017
- Presentation
- The influence of resection margin on survival outcomes in pancreatic cancer surgery: A systematic review and meta-analysis
- Dr Naman kohli

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 11, 2017
- Presentation
- Pancreaticoduodenectomy: Does it help in advanced pancreatic cancer? A systematic review and meta-analysis
- Dr Naman Kohli

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 12, 2017
- Presentation
- Evaluating the Clinical Decision Making Course
- Dr Wendy Crebbin

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 12, 2017
- Presentation
- Treatment limitation and outcomes of the elderly patient in emergency general surgery
- Dr Su Mei Hoh

RACS Annual Scientific Congress (Surgery)

- Adelaide, SA, May 12, 2017
- Presentation
- Colorectal SSI – Geelong experience
- Associate Professor Douglas Stupart

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Invited National Guest Speaker
- Professor David Watters

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Presentation
- The Effectiveness of TEMS (Transanal Endoscopic Microsurgery) in a Regional Area
- Dr Jennifer Chang

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Presentation
- Should BMI determine on whom we operate in rural Victoria?
- Dr Jessie Cole

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Presentation
- How Papua New Guinea can contribute towards advocacy for surgery within the Global Health agenda
- Professor David Watters

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Presentation
- How can surgeons use reports on clinical variance to inform their practice?
- Professor David Watters

Provincial Surgeons of Australia Annual Scientific Conference (Surgery)

- New South Wales, October 19-21, 2017
- Presentation
- Principles for extending scope of practice in rural and regional surgery
- Professor David Watters

Victorian Annual Scientific Meeting (Surgery)

- Victoria, February 14, 2018
- Presentation
- The Journey to Target Zero-tools to address critical areas that require improvement (RACS)
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Hospital performance reports and governance reports –Inner Regional Health Services perspective
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Surgical Mortality review The Barwon Health report 2012-2016
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Evidence for the Bellwethers in Global Surgery
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Appraising developing surgical services at the National Referral Hospital in Timor-Leste using the 'Three Delays Framework'
- Dr Andrew Fordyce

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Surgical Training, a view from both sides. Are we achieving what developing nations require?
- Dr Sonal Nagra

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 07, 2018
- Presentation
- Burns in the Third World: an unmet need
- Dr Matthew Stokes

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 09, 2018
- Presentation
- Daring to Dream of Equal Opportunity in Medicine- US Pioneers of the 19th Century'
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 09, 2018
- Presentation
- Daring to Dream of Equal Opportunity in Medicine - British women in the 19th Century'
- Professor David Watters

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 10, 2018
- Presentation
- Uncertainty in surgical clinical decision making -how experts and novices think'
- Dr Wendy Crebbin

RACS Annual Scientific Congress (Surgery)

- Sydney, NSW May 10, 2018
- Presentation
- "The effect of total cross-sectional area of laparoscopic ports in elective cholecystectomies: a retrospective analysis of 160 patients in a rural Victorian health service"
- Dr Terry Lu

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Victorian Emergency Laparotomy Audit for Victoria and Geelong
- Dr Claire Stevens

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Low vitamin D levels are associated with poor outcomes after surgery
- Dr Eileen Moore

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Evaluating the Clinical Decision Making Course
- Dr Wendy Crebbin

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Diverticular disease in Victoria, Australia
- Dr Mark Boydell

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- The surgical burden of disease in patients admitted to Victorian Hospitals
- Dr Trafford Fehlberg

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- PET-CT versus Oesophagoscopy: Evaluation of head and neck squamous cell carcinoma
- Dr Matthew Elliott

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Rate of negative laparoscopic appendicectomy in University Hospital Geelong and its comparison with national data

- Dr Syma Iqbal

Barwon Health Research Week 2017 (Surgery)

Geelong, Victoria, November 2017

- Poster Presentation
- Are colorectal cancer patients with metastasis more likely to leak?
- Dr Suat Ng

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Reasons why patients refuse clinical trials: A mixed qualitative and quantitative review
- Dr James Zwirs (Anaes collaboration)

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Preoperative anaemia in Cardiothoracic Surgery
- Dr Benson Nardino (Anaes collaboration)

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Reporting research at University Hospital Geelong: utilising online resources
- Ms Anne Vandewater

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- State Major Trauma UGH 2006-2016: A 10 year Audit
- Ms Stephanie Kempton

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- Quantifying access delays to Bellwether surgical procedures within the Three Delays Framework at Hospital Nacional Guido Valadares (Timor Leste's National Hospital)
- Mr Dominic Bagguley

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation
- A retrospective review of birth intervention at the national referral hospital in Timor-Leste
- Mr Andrew Fordyce

Barwon Health Research Week 2017 (Surgery)

- Geelong, Victoria, November 2017
- Poster Presentation

- Furthering the evidence for the cost-effectiveness of visiting surgical services in the Pacific region; a retrospective review of Cardiothoracic services from the RACS PIP

- Mr Morgan Short

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne VIC February 24-27, 2018
- Poster (Oral)
- Outcomes of laparoscopic and percutaneous insertion of Tenckhoff catheters in a regional centre
- Pham P, Lee WG, Grills R.

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne VIC February 24-27, 2018
- Poster (Oral)
- Robotic assisted radical prostatectomy: effective collaboration between public & private sectors to improve access & outcomes for regional patients
- Lee WG, Pirpiris A, Grills R.

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne VIC February 24-27, 2018
- Poster (Oral)
- Lessons learned and new challenges: Re-evaluation of end-user assessment of a skills-based training programme for urology trainees.
- Flanders D, Pirpiris A, Corcoran N, Forsyth R, Grills R.

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne VIC February 24-27, 2018
- Poster (Oral)
- Current status of training in robotic surgery in Urology Australia and New Zealand
- Grills R, Lee WG, Pirpiris A,

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne February 24-27, 2018
- Poster (Oral)
- Right RAPN in a Jehovah's Witness with bilateral renal tumours
- Mirmilstein, G.

Urological Society of Australia and New Zealand (USANZ) ASM (Urology)

- Melbourne, VIC February 24-27, 2018
- Poster (Oral)
- Nurse Practitioner to Urologist Video Flexible Cystoscopy service – journey from concept to reality in the rural setting.
- Willder S, Grills R.

A Snapshot Of International Conferences

The International Society for Magnetic Resonance in Medicine (ISMRM) (BMI)

- Paris, France
- June 16-21, 2018
- MRI Conditional Pacemakers and ICDs – Establishing an MRI scan service for patients in a public hospital in Australia.

Transcatheter Cardiovascular Therapeutics (TCT) (Cardiology)

- Denver, USA
- 29 October-2 November 2017
- Poster
- Learning Curve for Trans-radial Coronary Angiography Amongst Cardiology Trainees
- B Khialani, AW Hutchison, M Mok.

European Society of Cardiology (Euro PCR) (Cardiology)

- Paris, France
- June 2018
- Oral
- Graft or native intervention in patients with prior CABG: insights from a large multicentre PCI registry.
- B Khialani

American Society for Bone and Mineral Research Annual Scientific Meeting (Endocrinology)

- Denver, Colorado(ASBMR 2017)
- September 7-11, 2018
- Poster
- Frailty and fracture risk in older women. Tembo MC, Holloway KL, Williams LJ, Sui S, Brennan-Olsen SL, Kotowicz MA, Pasco JA.
- Professor MA Kotowicz

American Society for Bone and Mineral Research Annual Scientific Meeting (ASBM 2017) (Endocrinology)

- Denver, Colorado

- September 7-11, 2018
- Poster
- Bone Turnover Markers in Men with Dysglycaemia.
- Holloway KL, De Abreu LLF, Kotowicz MA, Sajjad MA, Pasco JA
- Professor MA Kotowicz

American Society for Bone and Mineral Research Annual Scientific Meeting (ASBMR 2017). (Endocrinology)

- Denver, Colorado
- September 7-11, 2018
- Poster
- Sarcopenia and estimates of fracture risk
- Pasco JA, Holloway KL, Rufus PG, Hyde NK, Tembo M, Sui SX, Williams LJ, Kotowicz MA.

US Endocrine Society Annual Scientific Meeting (Endocrinology)

- Chicago, Illinois, USA
- March 17-20, 2018
- Dr Myra Yeo

US Endocrine Society Annual Scientific Meeting (Endocrinology)

- Chicago, Illinois, USA
- March 17 -20, 2018
- Dr Michael McNamara

Asia Pacific Bone Academy 2nd Annual Scientific Meeting (Endocrinology)

- Korea
- September 2017
- Dr Adam Roberts

World Congress in Osteoporosis/ International Osteoporosis Foundation/European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and

Musculoskeletal Diseases (WCO-IOF-ESCEO) (Endocrinology)

- Krakow, Poland
- April 19 -22, 2018
- Poster
- Pasco JA, Holloway KL, Hyde NK, Tembo MC, Rufus PG, Sui SX, Berk M, Kotowicz MA. Pre-tiree lifestyles in relation to musculoskeletal health: a cross-sectional study.
- Professor MA Kotowicz

World Congress in Osteoporosis/ International Osteoporosis Foundation/European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (WCO-IOF-ESCEO) (Endocrinology)

- Krakow, Poland
- April 19 -22, 2018
- Poster
- Holloway KL, Rufus PG, Diez-Perez A, de Abreu LLF, Kotowicz MA, Sajjad MA, Pasco JA. Bone material; strength in men with dysglycaemia. Professor MA Kotowicz

Association of Avian Veterinarians Annual Conference (GCEID)

- New Zealand
- November 27-01 December
- Oral
- Construction and evaluation of a low-cost haematology slide scanning robot
- Chamings, A

International One Health Congress (GCEID)

- Saskatoon, Canada
- June 22-25, 2018
- Poster
- Detection and Characterisation of coronaviruses in Australian wild birds

- Chamings, A

International One Health Congress (GCEID)

- Saskatoon, Canada
- June 22-25, 2018
- Poster
- Characterisation of Viruses in Australian Wild Birds using Metagenomics
- Vibin, J

International One Health Congress (GCEID)

- Saskatoon, Canada
- June 22-25, 2018
- Poster
- In pursuit of a serological screening test for Mycobacterium ulcerans exposure
- Avumegah, MS

In-FLAME Global Network Meeting (GCEID)

- New York, USA
- 2017
- Oral
- Perinatal Determinants of nTreg during the First Year of Life
- Fiona Collier

EAAI Congress (GCEID)

- Munich, Germany
- May 26-30, 2018
- Oral
- Larger Household Size is Associated with an Increased Frequency of Naïve Treg at Birth
- Fiona Collier

Shanghai-Victoria Health Roundtable, organised by Shanghai Municipal

- Center for Disease Control and Prevention and the University of Melbourne
- "Health Innovations to Improve Health Outcomes". (Healthlinks and Personalised Health Care)
- Shanghai, China
- August 18, 2017
- Oral

- How Intersectoral Collaboration has improved health care delivery and outcomes in Victoria

- Jo Stevens

International Society of Cardiovascular Infectious Diseases (ISCVI) 2017 (Infectious Diseases)

- Dublin, Ireland
- June 20, 2017
- Oral
- Cardiac Device
- Infections
- E Athan

Annual Dialysis Conference (Nephrology)

- Long Beach, California
- March 2018
- Oral
- Clinical pearls in volume management
- Agar JWM

Annual Dialysis Conference (Nephrology)

- Long Beach, California
- March 2018
- Oral
- New home haemodialysis technology: does it matter?
- Agar JWM

Annual Dialysis Conference (Nephrology)

- Long Beach, California
- March 2018
- Debate
- The doctor laid bare
- Agar JWM et al

Annual Dialysis Conference (Nephrology)

- Long Beach, California
- March 2018
- Oral
- Ultrafiltration on haemodialysis: key concepts
- Agar JWM

Annual Dialysis Conference (Nephrology)

- Long Beach, California, USA
- March 2018
- Oral
- SONG-HD: a patient-centred approach
- Agar JWM

Renal Society of Australia Seminar (Nephrology)

- March 2018
- Oral
- Ultrafiltration on haemodialysis: key concepts
- Agar JWM

ANZ Home Dialysis Therapies Workshop (Nephrology)

- Auckland, New Zealand
- March 2017
- Poster
- Improving patient experience with the use of portable ultrasound in a home haemodialysis population.
- Simmonds R, Boddington J, Smith V, Somerville C

ANZ Home Dialysis Therapies Workshop (Nephrology)

- Auckland, New Zealand
- March 2017
- Poster
- Nocturnal haemodialysis – A 17 year Australian experience
- Choo SZ, Simmonds R, Somerville C, Agar JWM

McKenzie Institute International Conference (Physiotherapy)

- San Francisco, USA
- September 22-24, 2017
- Oral
- Screening patients for spinal surgery. Whose job is it anyway?
- Peter Schoch

38th Annual Conference of the International Society for Clinical Biostatistics. (Psychiatry)

- Vigo, Spain
- July 9-13, 2017.
- Oral
- Mapping the modified Rankin Scale (mRS) measurement to the Assessment of Quality of Life (AQoL) utility values.
- Mohebbi M.

19th International Conference on Computational Statistics and Data Analysis (Psychiatry)

- Rome, Italy
- July 17-18, 2017.
- Oral
- Developing and evaluating clinical risk prediction models for coronary artery bypass graft surgery.
- Mohebbi M.

American Society for Bone and Mineral Research (ASBMR). (Psychiatry)

- Denver, USA
- September 08-11, 2017.
- Poster
- Bone turnover markers in men with dysglycaemia. (Sponsor: Mark Kotowicz).
- Holloway KL, De Abreu LLF, Kotowicz MA, Sajjad MA, Pasco JA.

American Society for Bone and Mineral Research (ASBMR). (Psychiatry)

- Denver, USA
- September 08-11, 2017.
- Poster
- Sarcopenia and estimates of fracture risk. (Sponsor: Julie Pasco).
- Pasco JA, Holloway KL, Rufus PG, Hyde NK, Tembo M, Sui SX, Williams LJ, Kotowicz MA.

American Society for Bone and Mineral Research (ASBMR). (Psychiatry)

- Denver, USA
- September 08-11, 2017.
- Poster
- Frailty and fracture risk in older women. (Sponsor: Sarah Hosking). POSTER
- Tembo MC, Holloway KL, Williams LJ, Sui SX, Brennan-Olsen SL, Kotowicz MA, Hosking SM, Pasco JA

World Psychiatric Association. (Psychiatry)

- Berlin, Germany
- October 09-12, 2017.
- From Neuroprogression to Neuroprotection: the first episode as a treatment window.
- Berk M

World Psychiatric Association. (Psychiatry)

- Berlin, Germany
- October 09-12, 2017.
- C-Reactive protein is increased in schizophrenia but is not altered by antipsychotics: meta-analysis and implications.
- Fernandes BS

International Society for Research on Internet Interventions (ISRII). 9th Scientific Meeting. (Psychiatry)

- Berlin, Germany
- October 12-14, 2017.
- Poster
- MoodSwings 2.0: Outcomes of an international randomised controlled trial. POSTER
- Berk M

Biological Psychiatry.

- Oslo, Norway
- November 15, 2017.
- An overview of inflammation in major psychiatric disorders.
- Berk M
- **Biological Psychiatry.**
- Oslo, Norway
- November 15, 2017.

- Environmental sources of inflammation and risk pathways as a prevention target.
- Berk M

Biological Psychiatry.

- Oslo, Norway
- November 15, 2017.
- Inflammation as a treatment target in psychiatric disorders.
- Berk M

Symposium on Frontiers in Global Health: Deakin and its partners in India. (Psychiatry)

- Chennai, India
- November 29, 2017.
- Oral
- What's going on at IMPACT SRC?
- Dean O.

International Society of Bipolar Disorders. (Psychiatry)

- Mexico
- March 07-10, 2018
- Oral
- Can we treat bipolar disorder by targeting mitochondrial function?
- Berk M

25th International Symposium for Current Issues in Psychiatry

- Barcelona, Spain
- April 18-21, 2018
- Oral
- New targets for treating depression: inflammation, oxidative stress and neurotrophic factors.
- Berk M

International Human Microbiome Conference (Psychiatry).

- Ireland
- June 26-28, 2018
- Oral
- Impact of dietary fat source composition on behaviour and gut microbiota in mice
- Jacka F

International Human Microbiome Conference. (Psychiatry)

- Ireland
- June 26-28, 2018
- Oral
- Akkermansia muciniphila and its association with overweight and obesity in Australian men
- Jacka F

International Human Microbiome Conference (Psychiatry).

- Ireland
- June 26-28, 2018
- Oral
- Associations between gut microbiota, anxiety symptoms and physical health factors: a community-based study
- Loughman A

International Human Microbiome Conference. (Psychiatry)

- Ireland
- June 26-28, 2018
- Oral
- Comparison of gut microbiota composition following a meal replacement versus a whole foods weight loss program: a study protocol
- Rocks T

Australian and New Zealand Social Work and Welfare Education and Research (ANZSWWER) Symposium (Social Work)

- Auckland, New Zealand
- September 07-08, 2017
- Presentation
- The quality of practice teaching and learning in a rotation model of social work field education
- Sevi Vassos, Sarah Hall

Papua New Guinea Medical Society 53rd Medical Symposium (Surgery)

- Port Moresby, Papua New Guinea
- September 03-06, 2017
- Opening Plenary
- The Key Messages of the Lancet Commission of Global Surgery
- Professor David Watters
- **RACS Travelling Fellow, College of Surgeons Academy of Medicine of Malaysia, Annual Scientific Congress (Surgery)**
- Malaysia
- May 12, 2018
- Plenary Lecture
- "It's all about the right metrics - reporting access to safe, affordable and timely surgical and anaesthesia care".
- Professor David Watters

King's College London (Denmark Hill campus) (Surgery)

- London, UK
- May 17, 2018
- Presentation
- Reflections on PGR
- Professor David Watters

King's College London (Denmark Hill campus) (Surgery)

- London, UK
- May 17, 2018
- Presentation
- Global Surgery
- Professor David Watters

King's College London (Denmark Hill campus) (Surgery)

- London, UK
- May 18, 2018
- Presentation
- Reflections on the MSc
- Professor David Watters
- **King's College London (Denmark Hill campus) (Surgery)**
- London, UK
- May 18, 2018
- Presentation
- Reflections on partnership work
- Professor David Watters

The British Association of Urological Surgeons (BAUS) ASM

- Liverpool, UK
- June 25-27, 2018
- Poster (Oral)
- Outcomes in and Octogenarian Cohort – a retrospective analysis of 15 years of Laparoscopic Nephrectomies within a regional centre.
- Norton S, Grills, R, Hong M, Murupaggan S



SECTION

7

PUBLICATIONS



1. Abdad MY, Abdallah RA, Karkouri KE, et al. Rickettsia gravesii sp. nov.: A novel spotted fever group rickettsia in Western Australian Amblyomma triguttatum triguttatum ticks. *Int J Syst Evol Microbiol.* 2017;67(9):3156-3161. doi: 10.1099/ijsem.0.001865.
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3. Adams SD, Kouzani AZ, Tye SJ, Bennet KE, Berk M. An investigation into closed-loop treatment of neurological disorders based on sensing mitochondrial dysfunction. *J Neuroeng Rehabil.* 2018;15(1):8. doi: 10.1186/s12984-018-0349-z.
4. Adamson L, Day K, Campbell L, Deakin University, Barwon Health, G21 Geelong Region Alliance NDIS Health Interface CICD Project: Project Report. G21 Geelong Regional Alliance, Deakin University, Barwon Health; 2017.
5. Adler NR, Adler KA. Suicide by health professionals: A retrospective mortality study in Australia, 2001-2012. *Med J Aust.* 2017;206(11):506.
6. Adler NR, Adler KA, Grant-Kels J. Doctors' mental health, burnout, and suicidality: Professional and ethical issues in the workplace. *J Am Acad Dermatol.* 2017;77(6):1191-1193. doi: S0190-9622(17)32113-8 [pii].
7. Agar J, Barraclough KM, Al-Ameri R. Turning dialysis waste to resource: an examination of the utility of dialysis plastic waste as an incorporative product in concrete. Paper presented at 2017 Victorian Renal Clinical Network Conference: High Quality, Safe Renal Care, Improved by Information; September 15, 2017. Available from: <https://www2.health.vic.gov.au/hospitals-and-health-services/safer-care-victoria/safer-care-publications/vrcn-conference-program-21-august-2017>
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13. Ali-Sisto T, Tolmunen T, Viinamaki H, et al. Global arginine bioavailability ratio is decreased in patients with major depressive disorder. *J Affect Disord.* 2017;229:145-151. doi: 10.1016/j.jad.2017.12.030.
14. Allen P, Gately L, Banks P, et al. Direct access colonoscopy: Impact of intervention on time to colorectal cancer diagnosis and treatment in North West Tasmania. *Intern Med J.* 2017;47(10):1129-1135. doi: 10.1111/imj.13514.
15. Anderson G, Maes M. How immune-inflammatory processes link CNS and psychiatric disorders: Classification and treatment implications. *CNS Neurol Disord Drug Targets.* 2017;16(3):266-278. doi: 10.2174/1871527315666161122144659.
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