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2017 was highly successful for our School, featuring expansion into new premises to accommodate our growing team, major awards for our researchers and academic staff, and significant funding wins. It was also a time for reflection, with the passing of our School’s founder, Professor Basil Hetzel AC, and room naming ceremonies to honour past colleagues, whose legacies still influence Public Health research internationally, and who have improved the health of people around the planet.

In February we learnt of the passing of Professor Basil Hetzel AC. His work has improved the quality of life of millions around the world by his discovery of the link between iodine and thyroid disorders.

The early part of the year saw many of us move to our new building at 553 St Kilda Road, where we occupy four floors. The building features multiple meeting and board rooms, state of the art videoconferencing technology and will be a comfortable space in which our research and education teams can expand. I’d like to acknowledge the patience and flexibility shown by all as we continue to settle in to our new home.
Research funding for 2017 totalled over $38 million. We are incredibly grateful to the various funding bodies across government, private enterprise, professional bodies and community groups that enabled our work. This covered a diverse portfolio including a pilot randomised control trial exploring nutrition in critically ill patients; the continuation of Cochrane Australia’s work in evidence based medicine; reducing inappropriate medical testing and treatment; and funding for the Victorian Orthopaedic Trauma Registry, among many other projects.

We also secured a further $14.5 million in NHMRC and MRFF grants and fellowships for 2018, including a pilot dementia care registry and a Centre of Research Excellence for musculoskeletal trials.

Government funding is a vital source of support for us. I congratulate all of our successful applicants in 2017, and we look forward to continued success as the current government funding system changes, and the Medical Research Future Fund gets into full swing.

Our flagship study, ASPrin in Reducing Events in the Elderly (ASPREE), reached a major milestone in December 2017 with the completion of data collection. This is Australia’s largest and costliest primary prevention trial and is co-funded by the NHMRC and the US National Institutes of Health. 2018 promises to be a momentous year as the ASPREE team works towards the first major publications exploring the data, which we believe will generate valuable insights to improve healthcare provision for an ageing population.

The sister of ASPREE, STAtins in Reducing Events in the Elderly (STAREE), progressed well in 2017, and by the close of the year had become an independent organisational unit within the School. Professor Sophia Zoungas continues to manage the STAREE trial under the newly created Metabolism, Ageing and Genomics division, also headed by Professor Zoungas. STAREE established clinical trial hubs in multiple states during the year, and increased participation via a network of over 1,800 general practitioners.

During the year we added to the world’s body of medical knowledge through the 1,097 publications in the form of peer-reviewed articles, books and book chapters. Multiple articles appeared in the world’s highest impact journals, including the New England Journal of Medicine, Lancet, Journal of the American Medical Association, British Medical Journal and the Medical Journal of Australia. Congratulations to all of our researchers who contributed to this prolific output, especially our early career researchers publishing for the first time.

Our clinical registries program continued to expand and we now have 28 registries under our auspices, maintaining our position as the largest clinical registries manager in Australia. Our teams also contribute to three international registries spanning prostate cancer, trauma and breast devices.

These registries monitor key clinical quality indicators, producing benchmarked reports that are an effective mechanism for quality improvement in hospitals by identifying variance and improving clinical practice. They also provide valuable epidemiological data and information helpful for monitoring the safety of new drugs and devices, and serve as platforms on which clinical studies may be performed. In 2016, the Australian Commission for Safety and Quality in Healthcare concluded that such registries may provide a 2- to 7-fold health economic benefit through the reduction of complications and the improvement of clinical outcomes.

New registries in 2017 include the Australian and New Zealand Thyroid Cancer Registry, the Australian Spine Registry, and the National Gynaec-Oncology Registry.

Our educational offerings continued to thrive, with contact with over 200 undergraduate students enrolled in the various Bachelor courses, providing broad expertise across preventive medicine, epidemiology, research methods, health promotion, policy, environmental and global health.

Over 670 postgraduate students were enrolled through our School; 232 of these were enrolled in one of the two online Masters programs. Our courses this year included our flagship Master of Public Health, as well as graduate certificates, diplomas and masters level courses producing the public health researchers and health service leaders of the next generation. We maintained a cohort of 180 Higher Degree by Research (HDR) students, of whom just over 90% are working towards a PhD. The close of the year also saw the retirement of a much-respected member of staff, Dr Elizabeth Douglas, who managed the HDR program for 12 years. We thank Liz for her many years of service.

Our clinical registries program continued to expand and we now have 28 registries under our auspices, maintaining our position as the largest clinical registries manager in Australia. Our teams also contribute to three international registries spanning prostate cancer, trauma and breast devices.
Dr Hetzel’s work was pivotal to proving the link between iodine and thyroid disorders, a discovery that has saved or improved the lives of millions around the globe. In the 1950s and 1960s his group showed hypothyroidism to be an autoimmune stress related disorder. Later work revealed the role of iodine deficiency in thyroid disorders including goitre, and in developmental disorders arising from conception through childhood.

With over 200 journal publications and 18 books to his name, he was a prolific researcher and was awarded a Companion of the Order of Australia in 1990.

His studies began at King’s College, London, and a medical degree from St Peters College. His postgraduate education took him to Adelaide; New York, where he was a Fulbright Research Scholar; and London. From 1968-1975 he was Foundation Professor of Social and Preventive Medicine at Monash University. From 1975 to 1985 he was the first Chief of the CSIRO Division of Human Nutrition.

Dr Hetzel took a broad view of health and disease, with emphasis on an integrated ecological view, including psychosocial aspects.

His Monash-based research led to action on suicide prevention, traffic accident reduction and Indigenous health. He also organised a National Seminar on Indigenous Health in 1972, which led to the whole community approach subsequently adopted by the Aboriginal Health Service for the Central Australian Aboriginal Congress in Alice Springs.

His studies of iodine deficiency took him to Papua New Guinea, Indonesia and China. Together with the PNG Health Department, his group developed iodised oil injections and showed that the effects of iodine deficiency on the brain could be prevented by correction before pregnancy. This method has now been applied on a massive scale in Asia, Africa and Latin America with over 100 million doses being given.

In 1986, Dr Hetzel initiated and then became Executive Director of the International Council for Control of Iodine Deficiency Disorders (ICCIDD), a global multidisciplinary group that works with the WHO and UNICEF in 130 countries, covering more than 2 billion at risk people.

In May 1992, he was appointed Lieutenant Governor of South Australia, serving until 2000. In September 1992, he was elected as Chancellor of the newly established University of South Australia and completed a six-year term in 1998.

He was honoured with a State Memorial Service at the Bonython Hall, University of Adelaide on 27 February 2017.

Dr Hetzel’s association with our School continues through his stepdaughter, Professor Jane Fisher, who heads the Social Sciences Research Division, her daughter, Dr Rosie Dwyer who is conducting her PhD within the School, and her son, Georges Dwyer, who works on the STAREE project.
CHANGE OF PACE PROMPTS CHANGE OF PLACE

After more than seven years calling The Alfred Centre home, our School moved premises in 2017 to accommodate our growing numbers of staff. Fortunately, the move was just around the corner. Our primary location is now at 553 St Kilda Road, making us easily accessible from The Alfred and the city centre.

The move was several years in the making following years of rapid expansion. Initial feelers were put out in 2014 seeking additional space adjacent to the Alfred Hospital, and several of our research groups temporarily moved to leased offices whilst a permanent solution was found. The decision to move to 553 St Kilda Road was taken in late 2015 and a busy few months were spent planning the move down to the last computer cable. The complex relocation timetable included multiple steps to relocate most personnel and equipment to the new building, move ASPREE and STAREE teams to The Alfred Centre, and vacate space in the Burnet building to permit redevelopment as new laboratory space for the Central Clinical School.

The first wave of about 75 new occupants moved into 553 St Kilda Road during December 2016 and set about making the place our own.

The STAREE relocation also occurred at this time. Then in March 2017, over 170 colleagues from The Alfred Centre moved across, and ASPREE moved from the Burnet building to The Alfred Centre. Two further moves occurred in November 2017, bringing remaining personnel to the new location.

The new building lies at the opposite end of the Alfred campus from The Alfred Centre and maintains our proximity with the hospital and our AMREP partners. Our School occupies floors 1 – 4 of the building, with The Alfred and American Consulate taking up the remaining two levels. New visitors will notice more security as they enter and leave the building, a result of sharing the building with the Consulate.

553 St Kilda Road boasts a ground floor conference area designed to provide flexible facilities for short courses, and an array of meeting rooms, many with video conferencing technology.

Due to significant prior investment in the bespoke ASPREE biorepositories, ASPREE and STAREE staff are likely to remain at The Alfred Centre for a number of years to come.

The five-minute walk between the two locations can be a welcome respite on long days spent at a computer.

Continuing the settling in process, the Krum, McMichael and Jolley rooms at 553 St Kilda Road were officially named in December 2017 with families of the late Professors Krum and Jolley in attendance.

We hope all staff, students and visitors continue to enjoy the new facilities for many years to come.
STANDING UP
FOR PARTICIPANT RIGHTS

Dr Paul Lacaze and Ms Jane Tiller from the School’s Public Health Genomics Program had a busy year presenting to federal parliamentarians and fielding media about the use of genetic test results to deny life insurance cover.

By law in Australia, any genetic finding discovered through clinical testing or medical research and known to an applicant must be disclosed to life insurance providers when applying for a policy, should the provider request it. Providers can use this to deny or restrict cover.

Australian life insurers have denied cover even when individuals with an increased genetic risk of cancer have reduced their overall risk to population-risk level through preventive actions such as regular screening and prophylactic surgery.

Unit head Dr Paul Lacaze and Jane Tiller, the team’s ethical, legal and social adviser, called for a ban or moratorium on the practice at hearings of the Parliamentary Inquiry into the life insurance industry in May and December. Such a change would give researchers time to understand the clinical significance of genetic risk variants and would bring Australia into line with many developed countries.

Their interest arose out of considerations about returning genetic testing results to ASPREE participants; their concern is the impact of the status quo on medical trial enrolments. An Australian study from 2009 found that people informed about insurance risks when consenting to research were more than twice as likely to decline participating than those who were not informed.

Since May, Jane provided testimony at other public hearings and worked hard to raise awareness of the issue through media. Her work has paid off well, with pieces in The Conversation, Sydney Morning Herald, and numerous talkback radio spots. Paul also appeared on a 7:30 Report segment, while Jane was interviewed on The Project.

Cyclist Safety in the Spotlight

Dr Ben Beck, deputy head of the Pre-hospital, Emergency and Trauma Unit, attracted major media attention in September following the publication of an MJA article showing a significant increase in serious cycling injuries arising from road accidents.

Ben and the researchers analysed data from the Victorian State Trauma Registry and the National Coronial Information System between 2007-2015. Whilst the overall number of road accident fatalities in Victoria declined over the nine-year period, the number of serious injuries remained stagnant, and serious trauma for bicyclists increased by 8% per year. This led to a 56% increase in disability-adjusted life-years for cyclists. Costs associated with loss of health of all road traffic injuries during the study period was around $14 billion.

Researchers made the point that whilst past campaigns aimed at reducing road mortality have had a positive impact, more emphasis is needed on injury prevention initiatives. The story gained significant traction in Melbourne, reflective of the city’s significant cycling community. Coverage ranged across print, online, TV and radio, including The Conversation, SBS, ABC, The Guardian, national syndication across Fairfax and NewsCorp outlets, Macquarie Media (radio) and cycling titles.

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Over one billion people live in urban informal settlements globally, where polluted water and inadequate sanitation are leading causes of preventable diseases. Conventional approaches to water and sanitation management cannot meet the demands of rapid urbanisation in these communities; a challenge further intensified by the effects of climate change.

To help meet this challenge, a Monash-led consortium was awarded a major multi-million dollar grant from the Wellcome Trust’s ‘Our Planet, Our Health’ program in 2017 – one of four successful bids out of over 600 applications.

Bringing together a global team of researchers from more than 11 disciplines, RISE is trialling the water sensitive cities approach in 24 settlements in Makassar, Indonesia and Suva, Fiji. The program aims to demonstrate that nature-based solutions – such as constructed wetlands and biofiltration gardens – can deliver sustainable, cost-effective health and environmental improvements.

Underpinned by the emerging discipline of ‘Planetary Health’ – the link between the environment and human health – RISE aims to reduce environmental faecal contamination and consequently reduce human contact with faecal pathogens. The impacts of the intervention on environmental contaminants and ecological diversity and the health and well-being of residents – particularly children under five – will be the measurements of success.

RISE has made significant progress during its first year – forging local and international partnerships; establishing in-country teams; and securing the support of local communities and government counterparts.

In addition to researchers from the Faculty of Medicine, Nursing and Health Sciences, RISE brings together Monash University expertise from the Monash Sustainable Development Institute and the Faculties of Art, Design and Architecture, Business and Economics, Engineering, and Science. Additional university partners include Monash University Malaysia, University of Melbourne, Stanford and Emory Universities (USA), University of Cambridge (UK), Fiji National University, University of South Pacific (Fiji), Hasanuddin University (Indonesia) and United Nations University.
**BETTER UNDERSTANDING THE NEEDS OF CARDIAC PATIENTS**

The Health Services Research team collaborated with Medibank in 2017 to produce a novel Patient Reported Outcome Measure (PROM), measuring outcomes in people recovering from percutaneous coronary interventions (PCI). The impact of heart disease is massive, with Heart Foundation statistics showing one in six Australians has cardiovascular disease. Such tools will help health professionals advise and monitor people preparing for or recovering from PCI.

PCI is a non-surgical procedure using a catheter to insert a stent into blood vessels. The stent opens up vessels in the heart narrowed or blocked by plaque. Physical pain, sleep disruption, depression, low energy issues and issues arising from polypharmacy are all considerations for patients following PCI. The impact is highlighted in this quote from a participant in the PROM development:

“I wanted my life back. I wanted to drive my car. I love my car. I wanted to go back to work. I’ve got things to do. We want to travel. We’ve spent all our time raising kids, bloody paying for education, having grandkids, babysitting. I love them to death... So yeah I wanted my life back.”

PROMs capture patient perspectives of wellbeing, treatment and quality of life without being biased by researcher interpretation. Such knowledge expands the traditional emphasis on physical outcomes in the individual to outcomes that ultimately impact on mental health, employment, family life and community. They are designed to help clinicians and patients make treatment decisions based on outcomes that are meaningful for the patient, but at great cost to quality of life.

The team conducted a systematic review exploring existing cardiac PROMs; created a long-list of potential PROM outcomes through interviews and focus groups with PCI patients; reduced this to a short-list of PROM outcomes via a survey of PCI patients; and conducted a phone-based validation study with 200 PCI patients to finalise outcomes.

Only a handful of existing cardiac PROMs were found with significant patient input. The final five-question tool provides health professionals with a validated questionnaire that includes outcomes that truly matter to their patients.

From 2018, the team will be creating a composite measure combining the PROM with objective clinical measures to provide an overall indication of quality of care. This could be used as a benchmarking tool across hospitals to assess quality of care as part of the Victorian Cardiac Outcomes Registry, housed within the School. They are also looking to repeat the process throughout other clinical registries based here.

**Project lead Dr Darshini Ayton**
BUILDING HEALTHCARE CAPACITY IN SRI LANKA

Higher quality research in Sri Lanka could help the country better assess resource use in their healthcare system, reducing waste and driving better patient outcomes.

Fifteen senior researchers and policy makers arrived from Sri Lanka in October and undertook an intensive two-week course covering research methodology, ethics, governance, data storage, data interpretation techniques and more.

In 2018, team representatives will travel to Colombo for the second part of the program, including ethics and governance training delivered to numerous senior researchers. The World Health Organization will help the Sri Lankan Ministry of Health course attendees share their learnings with their colleagues to maximise impact and uptake.

During 2017 the Department of Foreign Affairs and Trade bestowed an Australia Award upon the School, a grant to help build capacity in a developing nation. Leveraging existing strong relationships with Sri Lanka, Dr Jayamini Illesinghe, Marina Skiba and Tomas Zahora, with the help of Sharon Gurry, worked tirelessly to develop a program that provided senior Sri Lankan researchers with the skills and knowledge to develop a national code of conduct for medical research.
THE RECOMMENDED DOSE
WITH RAY MOYNIHAN

Hosted by acclaimed investigative journalist and health researcher Dr Ray Moynihan, The Recommended Dose is a new podcast tackling the big questions in health today. It explores the insights, evidence and ideas of extraordinary researchers, writers and health professionals from around the globe.

Launched by Cochrane Australia in October 2017, The Recommended Dose continues to prove popular with listeners in Australia, the UK, the US and all corners of the globe. Episode 1 kicks off with The BMJ’s erudite and exceptional Editor-in-Chief, Dr Fiona Godlee, who shares her thoughts about The BMJ’s often controversial campaigns to change medicine – and broader society – for the better.

She looks to a future that addresses the distorting influence of industry funding on health evidence and outcomes, and talks about what drives and inspires her to achieve so much at the helm of one of the world’s oldest and most prestigious medical journals. Other series highlights include compelling conversations with high profile US psychiatrist, Dr Allen Frances, Professor Lisa Bero, whose nutrition research was recently discovered to be secretly monitored by Coca-Cola, leading South African researcher Professor Jimmy Volmink, well-known Australian Professor of Evidence Based Medicine Paul Glasziou, Monash University’s own Professor Julian Elliott and British literary luminary Sarah Moss – just to name a few.

The Recommended Dose
Podcast available now

You can find The Recommended Dose on SoundCloud, iTunes, Stitcher and wherever you listen to your favourite podcasts, or visit www.australia.cochrane.org/trd.

There have now been more than 300 sessions of Life and Other Catastrophes which are also available as podcasts. It demonstrates significant public engagement, research translation and knowledge dissemination to a broad audience.

Listen to episodes at http://www.abc.net.au/radio/melbourne/programs/drive/life-and-other-catastrophes/

LIFE AND OTHER CATASTROPHES

Since February 2012 Professor Jane Fisher has joined ABC Melbourne Drive host Rafael Epstein for a weekly half-hour discussion, with talkback, about a matter of relevance to human experience and relationships.

Listeners can propose topics through a dedicated email address or they are determined in discussion with the production team. Evidence is gathered from rapid searches of the peer reviewed literature to inform each discussion. Topics have included:

• Deciding whether to have genetic testing
• Life after bereavement
• Consequences of perfectionism
• Impact of losing a sense
• Caring for a child with special needs

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Professor Jane Fisher with ABC’s Raf Epstein
WIN FOR CITIZEN SCIENCE

Cochrane Australia’s Associate Professor Julian Elliott received the prestigious Commonwealth Health Minister’s Award for Excellence in Health and Medical Research in June 2017. The medal is awarded annually to the top-ranked Career Development Fellowship applicant through the National Health and Medical Research Council.

Julian’s work focuses on building novel systems for translating research into practical, evidence-based healthcare solutions that positively affect patient health and quality of life. One such example is using text mining technology and artificial intelligence to automatically update ‘living’ systematic reviews when new data is released.

Another is Cochrane Crowd, a citizen science platform with over 5,000 public contributors. Members now accurately identify scientific research papers for inclusion in systematic reviews, ensuring they are updated and produced more quickly and efficiently.

Julian has over 90 publications including papers in leading scientific journals such as Nature, The Lancet and PLOS Medicine. In the last five years he has been a chief investigator on 20 grants totalling over $8 million.

VESKI FELLOWSHIP

Forensic Medicine PhD student Samantha Rowbotham was awarded a VESKI Fellowship in 2017, as part of the Victorian Government’s commitment to attracting the top five percent of respective research fields to Victoria.

Samantha’s project is entitled “Differentiating unintentional short falls from non-accidental injury: strengthening the evidence base for paediatric skeletal trauma interpretation in medico-legal contexts.” During the project, she’ll establish a Paediatric Skeletal Trauma database that will help distinguish between children’s injuries arising from accidental falls and abuse. She hopes the database will be used to identify and ultimately protect the 15,000 Australian children physically assaulted each year.

Dr Samantha Rowbotham
ATACAS RECEIVES NATIONAL TRIAL OF THE YEAR AWARD

The Australian Clinical Trials Alliance (ACTA) presented its 2017 Trial of the Year Award to Professor Paul Myles and co-investigators on the Aspirin and Tranexamic Acid for Coronary Artery Surgery (ATACAS) trial. The award was handed to Professor Myles by Minister for Health Greg Hunt MP.

The ATACAS trial ran for 10 years and involved 4,660 participants across Australia, New Zealand, Asia and Europe. It is the largest study exploring aspirin and tranexamic acid use in cardiac surgery patients to date. The trial was led by the Australian and New Zealand College of Anaesthetists Clinical Trials Network and coordinated by Alfred Health.

Coronary artery disease is caused by a build-up of waxy plaque on the inside of blood vessels that supply oxygen-rich blood to the heart. Over time the plaque can harden or break off and float away, blocking blood flow and potentially causing heart attack or stroke. People with this condition are often prescribed long-term aspirin to prevent this. If the condition progresses to the point where aspirin is not sufficient to manage the risk, coronary artery bypass graft (CABG) surgery may be performed.

When the trial launched in 2008 there were concerns that whilst aspirin was good at reducing the risk of heart attack or stroke, it may lead to excessive bleeding after surgery. On the other hand, anti-fibrinolytic drugs such as tranexamic acid were known to reduce excessive bleeding, but could increase the chance of heart attack or stroke. There was a lack of agreement as to how to manage medications as the time of surgery approached.

In a series of papers published in the New England Journal of Medicine, the researchers explained how the trial demonstrated that it is safe to continue aspirin prior to surgery and this may be a safe and effective way to manage blood clotting risks. They also found tranexamic acid to be a safe and effective way to reduce the risk of bleeding complications without increasing the risk of heart attack or stroke.

Aspirin was found to be safe and effective in managing blood clotting risks that lead to stroke and heart attack.
AUSTRALIA DAY HONOURS

This year saw several of our academic and research staff recognised in the 2017 Australia Day and Queens Birthday Honours.

PROFESSOR JAMIE COOPER AO

Professor Jamie Cooper AO, became an Officer of the Order of Australia in honour of his distinguished service to intensive care medicine in the field of traumatic brain injury as a clinician, and to medical education as an academic, research and author. Professor Cooper has published more than 230 journal papers, including ten papers in the *New England Journal of Medicine*, covering intensive care medicine, traumatic brain injury, blood transfusion, sepsis, acute lung injury, and resuscitation fluids.

PROFESSOR MICHAEL ACKLAND PSM

Professor Michael Ackland received a public service medal for outstanding public health service through contributions to the health and wellbeing of people in Victoria. Professor Ackland has made a broad and significant contribution to public health during his distinguished 35 year career in the public service in Victoria. He has led major innovations and policy development in chronic diseases, risk factor surveillance and prevention. As Acting Chief Health Officer, Professor Ackland worked to protect the health of Victorians through the provision of strategic advice to government, and by leading several successful large scale public health investigations.

ASSOCIATE PROFESSOR KEN HARVEY AM

A/Professor Ken Harvey AM is one of Australia’s leading campaigners for evidence-based medicine and received the honour of Member (AM) in the general division of the Order of Australia. The honour recognises his significant service to community health and the pharmaceutical industry through roles in developing guidelines for the ethical use of antibiotics. It follows other significant awards including Choice Australia’s Consumer Champion for 2012, and the 2016 ANZAAS Medal from the Australian and New Zealand Association for the Advancement of Science for contributions to science which go beyond normal professional activities.

PROFESSOR NICK CROFTS AM

Professor Nick Crofts received the honour of Member (AM) for significant services to medicine in the field of epidemiology, particularly through contributions to the control of HIV and other infectious diseases. Professor Crofts is a distinguished researcher and shaper of public health action to reduce the impact of many harms, including from infectious diseases (HIV, hepatitis C), illicit drugs, and violence, and the partnership of law enforcement with public health in reducing these and many other harms.
JOSEPH IBRAHIM FILM AWARD

Professor Joseph Ibrahim won an award for his short film *Dignity of Risk*. The animated film, by Prateek Bando, Jeremy Ley and Professor Ibrahim, won ‘Best Narrative Film Category’ at the 2017 Global Impact Film Festival (GIDC) and has been accepted in several other film competitions.

The GIDC Film Festival’s mission is to empower lives by celebrating the power of media for social justice by showcasing films that provoke and inspire social change.

*Dignity of Risk* is about a geriatrician faced with a difficult decision when he finds that his elderly patient can no longer live safely at home.

Professor Ibrahim, from the Department of Forensic Medicine, has spent many years investigating falls and injuries among nursing home patients. ‘Dignity of Risk’ is a term he uses to describe an individual’s inherent right to engage in risky behaviour, a right that is often compromised in care situations.

A common example would be a nursing home resident who preferred to take a solitary walk in the evenings. Whilst the unattended walk poses a falls risk, it may also greatly enrich the life of the patient and have psychosocial benefits that outweigh the risk.

The film deals with the topic in a sensitive way, showing the dilemmas faced by the geriatrician, the patient, and the patient’s relatives.
In addition, clinical registries provide valuable epidemiological data regarding the natural history and progression of diseases; they are used to answer real-world research questions; they monitor the effect of new pharmaceutical and device treatments over time; and they act as platforms on which to undertake clinical trials.

Monash Clinical Registries’ academic output for 2017 was significant, with over 75 publications in high quality peer-reviewed journals directly resulting from registry operations and analyses, and many more conference and media presentations. Monash Clinical Registries also participated in Victorian and Commonwealth reviews of clinical quality registry policy and strategy in 2017.

In 2017, a number of new clinical registries were established at Monash SPHPM. These included:
- The Australian and New Zealand Thyroid Cancer Registry
- The Australian Spine Registry
- The Dementia Pilot Clinical Quality Registry
- The Australian Gynaecology Registry
- The TrueNTH Global Registry in Prostate cancer

Highlights from our extensive program of existing clinical registries include:
- The Australian Cystic Fibrosis Data Registry produced its 2015 Annual Report, its first under the management of Monash SPHPM.
- The Victorian Cardiac Outcomes Registry (VCOR) published its methodology in the peer reviewed journal, Heart Lung and Circulation – “The establishment of the Victorian cardiac outcomes registry: monitoring and optimising outcomes for cardiac patients in Victoria”.
- The Aplastic Anaemia Registry is participating in the Bone Marrow Failure Flagship of the Melbourne Genomics Health Alliance, investigating whether comprehensive genomics screening can improve accuracy and timeliness of diagnosis for patients with these rare but important conditions.
- The Australian and New Zealand Massive Transfusion Registry has secured ongoing funding from Australia’s National Blood Authority, the Victorian Department of Health and Human Services, the New Zealand Blood Service, and CSL Behring. This funding will permit the Registry to expand to additional sites and to pursue its research and quality activities for massive transfusion support in critical bleeding across a range of clinical contexts.
- The Myeloma and Related Diseases Registry commenced its first registry-based early phase clinical trials in partnership with the Australasian Myeloma Research Collaboration. It also secured funding from Australia’s National Blood Authority for a study of immunoglobulin use in myeloma. Use of immunoglobulins is known to vary substantially between clinicians, hospitals and across Australian states.
- The Lymphoma and Related Diseases Registry completed a successful pilot, and secured additional funding to expand its operations to include patients with chronic lymphocytic leukaemia.

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- The TrueNTH Global Registry in Prostate cancer

Highlights from our extensive program of existing clinical registries include:
- The Australian Cystic Fibrosis Data Registry produced its 2015 Annual Report, its first under the management of Monash SPHPM.
- The Victorian Cardiac Outcomes Registry (VCOR) published its methodology in the peer reviewed journal, Heart Lung and Circulation – “The establishment of the Victorian cardiac outcomes registry: monitoring and optimising outcomes for cardiac patients in Victoria”.
- The Aplastic Anaemia Registry is participating in the Bone Marrow Failure Flagship of the Melbourne Genomics Health Alliance, investigating whether comprehensive genomics screening can improve accuracy and timeliness of diagnosis for patients with these rare but important conditions.
- The Australian and New Zealand Massive Transfusion Registry has secured ongoing funding from Australia’s National Blood Authority, the Victorian Department of Health and Human Services, the New Zealand Blood Service, and CSL Behring. This funding will permit the Registry to expand to additional sites and to pursue its research and quality activities for massive transfusion support in critical bleeding across a range of clinical contexts.
- The Myeloma and Related Diseases Registry commenced its first registry-based early phase clinical trials in partnership with the Australasian Myeloma Research Collaboration. It also secured funding from Australia’s National Blood Authority for a study of immunoglobulin use in myeloma. Use of immunoglobulins is known to vary substantially between clinicians, hospitals and across Australian states.
- The Lymphoma and Related Diseases Registry completed a successful pilot, and secured additional funding to expand its operations to include patients with chronic lymphocytic leukaemia.

Clinical registries are gaining increasing recognition within Australia and internationally as a valuable tool in quality improvement. When mature, clinical quality registries monitor key clinical quality indicators and provide benchmarked reports to participating sites, being an effective mechanism of stimulating local review and changing clinical practice.
• By the end of 2017, the Australian Breast Device Registry (ABDR) captured health information from approximately 1,000 people per month, with the support of > 380 surgeons. The 2016 Annual Report, a first for the Registry, was prepared for publication.

• The Victorian Lung Cancer Registry was amongst the first recipients of funding from the Medical Research Future Fund (MRFF).

• The Upper GI Cancer Registry began collecting patient data for its second module, oesophagogastric cancer, adding to the first module, pancreatic cancer.

• The Australian Rheumatology Association Database (ARAD) is in the process of amalgamating with the new Australian Arthritis and Autoimmune Biobank Collaborative (A3BC). It is also extending participation to people with polymyalgia rheumatica, giant cell arteritis and other types of vasculitis.

• The pilot project for quality Registry of Kidney Diseases (ROKD) is now complete. A new iteration of the Registry of Kidney Diseases has now been approved and established as the definitive registry and extends the quality Registry from 6 to 8 renal conditions and takes account of the need to include legacy cases for some ‘rare kidney diseases’, and includes a ‘glomerulonephritis registry’. The involvement of centres in Victoria has increased to 17.

Our full list of registries is here:

**Cancer registries**
- Prostate Cancer Outcomes Registry – Australia and New Zealand
- Prostate Cancer Outcomes Registry – Victoria
- Upper Gastrointestinal Cancer Registry
- National Gynae-Oncology Registry
- Victorian Lung Cancer Registry

**Cardiac registries**
- Victorian Cardiac Outcomes Registry
- Melbourne Interventional Group Registry
- Australian and New Zealand Society of Cardiac and Thoracic Surgeons National Cardiac Surgery Database Program

**Device/Procedure registries**
- Australian Breast Device Registry
- Bariatric Surgery Registry

**Medical registries**
- Australian Rheumatology Association Database
- Registry of Kidney Diseases

**Registry Science Unit**
- Australian Cystic Fibrosis Data Registry
- Australian and New Zealand Thyroid Cancer Registry
- Australian Spine Registry
- Dementia Pilot Clinical Quality Registry

**Transfusion Research Unit**
- Aplastic Anaemia Registry
- Australian and New Zealand Massive Transfusion Registry
- Haemoglobinopathy Registry
- Lymphoma and Related Diseases Registry
- Myeloma and Related Diseases Registry
- Neonatal Allergic Thrombocytopenia Registry
- Thrombotic Thrombocytopenia Purpura / Thrombotic Microangiopathies Registry
- Venous Thromboembolism cohort study

**Trauma and Emergency registries**
- Australian Trauma Registry
- Burns Registry of Australia and New Zealand
- Victorian Orthopaedic Trauma Outcomes Registry
- Victorian State Trauma Registry
- Aus-ROC Australian and New Zealand Out-of-Hospital Cardiac Arrest Epistry

**International registries**
- International Collaboration of Breast Registries Activities
- Saudi Arabia Trauma Registry
- TrueNTH Global Registry
RESEARCH FUNDING 2017

![Research Funding Pie Chart]

NEW NHMRC/MRFF FUNDING FROM APPLICATIONS SUBMITTED IN 2017

![New Funding Pie Chart]

PUBLICATIONS 2017

![Publication Pie Chart]
L-R: Prof Jane Fisher, Prof Malcolm Sim, Prof Peter Cameron, Prof Flavia Cicuttini, Prof John McNeil AM, Dr Jayamini Iliesinghe, Prof Robin Bell, Prof Andrew Forbes, Prof John Zalcberg OAM, Mr Gavin Horrigan, Prof Sophia Zoungas

Absent: Prof Michael Abramson, Prof Jamie Cooper AO, Prof Susan Davis, A/Prof Dragan Ilic, Prof Danny Liew, Prof Helena Teede, Prof Noel Woodford
DIVISIONS

ASPREE RESEARCH
CANCER RESEARCH
CLINICAL EPIDEMIOLOGY
RESEARCH METHODOLOGY
HEALTH SERVICES
OCCUPATIONAL AND ENVIRONMENTAL HEALTH SCIENCES
CRITICAL CARE RESEARCH
SOCIAL SCIENCES RESEARCH
METABOLISM, AGEING & GENOMICS
MONASH CENTRE FOR HEALTH RESEARCH AND IMPLEMENTATION (MCHRI)
FORENSIC MEDICINE
TEACHING AND LEARNING (RESEARCH STREAM)
High quality data amassed during the seven year trial includes: physical, cognitive and well-being (including depression) measures; personal health histories; lifestyle choices and social circumstance; pharmacotherapies; and data on clinical events including myocardial infarction, stroke, heart failure, cancer, dementia, depression and clinically significant bleeding. Data from sixteen sub-studies, including ~2 million biobanked biospecimens, augment the principal trial.

An interim analysis of data by the NIA (National Institute on Aging), the major funder of ASPREE, resulted in the cessation of the intervention phase of the trial in June. The NIA reported very little difference between the aspirin and placebo arm in length of life free of dementia and disability since the start of the study treatment. They concluded that it was extremely unlikely that continuing the intervention phase until December 2017, as originally planned, would affect the primary study outcome.

As a result of this decision:

- Participants and their GPs in Australia and the USA were instructed to cease and return study tablets.
- Hundreds of thousands of returned tablets were logged to calculate exposure to study treatment.
- Information on health event forms, that participants completed and returned with their study tablets, was checked and entered into the database.
- Meanwhile up to ~1,000 annual ASPREE study visits were conducted per month across south eastern Australia. Three-monthly phone calls, and sub-study activities, also continued until December 2017.
- Efforts to source and prepare thousands of supporting documents for endpoint adjudication doubled.
- Seven years of longitudinal data was cleaned and prepared for analysis and publication of the primary paper, which is expected to be published globally by mid-2018.
- Budgets, funding applications, protocols, study documents, letters and ethics submissions were prepared for the roll out of a follow-up observational study of the legacy effects of aspirin, called ASPREE-XT (eXTension), which will commence in early 2018.
- A new, improved data management system was prepared for ASPREE-XT.
- Staff held multiple participant forums (study updates) to explain the transition from ASPREE to ASPREE-XT.

Data Collection

ASPREE field staff conducted more than 13,000 annual study visits in-person. The remaining ~3,300 annual visits were conducted by phone call or through medical records. ASPREE administration staff made in excess of 60,000 phone calls to ASPREE participants for retention and data collection purposes.

Data Management

The ASPREE Data Management team began building a new, high-functioning database to improve data entry, reporting and communication.

Endpoint Management

To date the Endpoint Data Management team has collected, processed and reviewed more than 200,000 pages of clinical supporting evidence necessary for adjudication of primary and secondary study endpoints.

Participant engagement

ASPREE hosted 24 study updates for participants across south-eastern Australia. Up to 95% of ASPREE participants indicated in their returned health form a willingness to continue in a related follow-up study.

ASPREE Sub-study Activity

The ASPREE Healthy Ageing Biobank currently holds 12,219 baseline and >10,300 year 3 follow up blood & urine samples, >1,700 saliva samples and ~728 tumour specimens. Staff have conducted >900 year 3 follow up hearing tests (ASPREE-Hearing), >900 year 5 retinal images (ASPREE-AMD) and have received >4,000 year 5 follow up medical and social ALSOP (ASPREE Longitudinal Study of Older Persons) questionnaires to help identify factors that may affect healthy ageing.

Funding

Bridge funding from the NIA and NCI will supplement existing NHMRC grants towards a post-trial observation longitudinal study, ASPREE-XT, to investigate possible legacy effects of aspirin, particularly on cancer. Extending to ASPREE-XT will enrich rigorous clinical, phenotypic, genotypic and biomarker datasets generated by the ASPREE study in Australia and the US.

Acknowledgement

ASPREE Investigators sincerely thank 16,703 older Australians for generously contributing to the study, and more than 2,000 GPs, without whom this trial would not be possible. They would also like to congratulate the ASPREE team for rallying and eclipsing study challenges this year.
2017 highlights from the Division include:

**Victorian Lung Cancer Registry**

The registry collaborated with the Victorian DHHS and Integrated Cancer Services to collect data and provide analysis and reporting for the Victorian Lung Cancer Redesign Project. The project targets improvements in the timeliness of lung cancer care, by promoting locally responsive health service review and improvement initiatives in line with the “Optimal care pathway for people with lung cancer”.

The VLCR also increased capture of all newly diagnosed primary lung cancer cases in Victoria, from 55.41% in 2016, to 65% in 2017, with over 6,000 patient registrations. The VLCR is on track to increase capture to 90% by mid-2018. The VLCR participating health services include major metropolitan public and private institutions, and regional institutions.

**Upper Gastrointestinal Cancer Registry**

The Registry’s pancreatic cancer module pilot was completed, and roll-out to additional sites across Victoria began. A pilot of the UGICR’s oesophagogastric cancer module commenced in three major health services, and a modified Delphi process was completed to formally develop a set of quality indicators for the UGICR’s pancreatic cancer module as a part of an NHMRC project grant.

**National Gynae-Oncology Registry**

A pre-pilot methodology assessment phase was conducted for NGOR, with findings of the likely feasibility of using pre-existing clinical databases to inform the registry. The pilot phase of the ovarian, tubal and peritoneal cancer module commenced, including the recruitment of 40+ participants. Finally, ethics and site governance approvals were sought and obtained for ten participating NGOR sites by end of 2017.

**Australian Clinical Trials Alliance (ACTA)**

ACTA was the recipient of a $5 million Medical Research Future Fund grant, in recognition of the important role and value of clinical trial networks. The 2017 ACTA Clinical Trial of the Year was awarded to the Aspirin and Tranexamic Acid for Coronary Artery Surgery (ATACAS) trial, led by the Australian and New Zealand College of Anesthetists Clinical Trials Network and coordinated by Alfred Hospital and Monash University.

**Research Projects**

Prof Zalcberg continued his involvement in the following studies:

- **ALT-GIST Trial**: Testing the role of alternating Imatinib and Regorafenib as first line therapy in patients with metastatic Gastrointestinal Stromal Tumours.
- **CHALLENGE Trial**: Investigating the role of physical exercise to reduce recurrence from colorectal cancer.
- **INTEGRATE Study**: testing the role of Regorafenib in metastatic stomach cancer.
- **TOPGEAR Study**: Investigating the role of pre-operative radiotherapy in operable gastric cancer.
- Initiation of a national study of Nivolumab administration to renal transplant patients who develop incurable cancer.

Going into 2018, the CRP has several projects in development including new cancer registries and research projects relating to the registries.

Some of our projects can also be seen in the 2017 Cancer Research Portfolio:


Some of our projects can also be seen in the 2017 Cancer Research Portfolio:

monash.edu/__data/assets/pdf_file/0004/1216372/Cancer-Research-Portfolio-2017.pdf
The Clinical Epidemiology Division consists of a number of discrete units with unique foci on health and disease, unified by their epidemiological approach to research.

Highlights from each unit in 2017 include:

Centre of Cardiovascular Research and Education in Therapeutics (CCRET)
Professor Danny Liew and Professor Chris Reid, Heads

2017 was the second of the Program Grant ‘Novel approaches to the prevention and treatment of chronic heart disease and its comorbid complications’. The year marked the commencement of the new Centre of Research Excellence ‘Cardiovascular Outcomes Improvement’ and saw expansion of three flagship cardiovascular clinical registries: Victorian Cardiac Outcomes Registry (VCOR), Australian and New Zealand Society of Cardiac and Thoracic Surgeons (ANZSCTS) Cardiac Surgery Database, and the Melbourne Intervention Group (MIG) Registry of Coronary Interventions. The group had 99 publications and expanded to a team of 70 staff and postgraduate students.

Behavioural Science and Prevention Unit
A/Professor Ben Smith, Head
The Unit continued to strengthen research and industry collaboration in behavioural epidemiology and interventions this year. Several chronic disease prevention studies continued, funded by the Australian Research Council, and including a partnership with the Victorian Active Ageing Partnership.

Women’s Health Research Program
Professor Susan Davis, Head
The Program completed studies evaluating the safety of intra-vaginal testosterone for the treatment of vaginal atrophy in women with breast cancer taking an aromatase inhibitor, and the effectiveness of metformin to prevent endometrial thickening in women with breast cancer taking tamoxifen. Outcomes of these studies will be presented at the World Congress on the Menopause in 2018. Other highlights include the appointment of Professor Robin Bell to Associate Editor of Climacteric, the journal of the International Menopause Society. Professor Susan Davis was appointed to the editorial Board of Clinical Endocrinology, the journal of the British Endocrine Society. 2017 also saw completion of recruitment of 7,000 Australian women aged 18-39 years to the Grollo Ruzzene Foundation Younger Women’s Health Study.

Cabirini Epidemiology
Professor Rachelle Buchbinder, Head
The Unit had a stellar year for grants including funding for the NHMRC Centre of Research Excellence – Australia and New Zealand Musculoskeletal Clinical Trials Network (ANZMUSC). We also received funding for the NHMRC Partnership Centre in Health System Sustainability and won NHMRC Cochrane Editorial base funding for Cochrane Musculoskeletal for the next three years. The Cochrane EPOC Satellite is now co-located with us at our new premises at 4 Drysdale St, Malvern.

Infectious Diseases Epidemiology
Professor Allen Cheng and Professor Karin Leder, Heads
This Unit continued our collaboration with Water Research Australia Limited, including a study in India on improving access to safe water using Riverbank Filtration Technology. We began leading the health outcomes research for a large Wellcome Trust-funded trial, Revitalising Informal Settlements and their Environments (RISE), and contributed to several large NHMRC grants in surgical site infection, community-acquired pneumonia and emerging infectious diseases.

Members of the Unit continued to have a role in research translation and policy, through membership of State and Commonwealth advisory committees on drug regulation, influenza surveillance, immunisation and healthcare associated infection, and we ran a Travel Medicine short course in 2017.

Musculoskeletal Epidemiology Unit
Professor Flavia Cicuttini, Head
The Unit commenced new NHMRC funded trials on krill oil for knee osteoarthritis and methotrexate for hand osteoarthritis in ongoing work focusing on new approaches for the treatment of osteoarthritis where there are still no disease modifying agents available. Translational work was funded through NHMRC and MRFF, aimed at improving patient outcomes in osteoarthritis and low back pain. Finally, we continued collaboration with Monash Engineering and Information Technology aimed at developing novel monitoring systems and ergonomic solutions for musculoskeletal conditions, with steady progress on a knee robotic, the subject of a collaborative patient between the Unit and Engineering.

The CCRET team
The Infectious Diseases Epidemiology team
The Research Methodology Division is headed by Professor Andrew Forbes with Professor Sally Green as Deputy Head. It is comprised of the Biostatistics Unit, Cochrane Australia, the Epidemiological Modelling Unit and the Research Governance Unit. These Units provide a critical methodological foundation for activities and research within SPHPM, the Faculty of Medicine, Nursing and Health Sciences, and government and hospitals nationally, in addition to their own areas of research.

Highlights for 2017 include:

**Epidemiological Modelling Unit**

*Dr James Trauer, Head*

The Unit continued its strong theme of modelling infectious disease transmission, with further work on tuberculosis, HIV, sexually transmitted infections and emerging infectious diseases. During the year, Dr James Trauer took over as Unit head from A/Prof Manoj Gambhir, whose tenure saw robust development of this area.

The Unit made several successful grant applications, including one for expansion of the existing tuberculosis (TB) modelling platform AuTuMN, which assists high-burden countries to better respond to TB epidemics. Weekly educational meetings have strengthened cross-institutional links with teams at James Cook University, the Doherty Institute and RMIT. Other key partners for our research include the Global Fund to Fight AIDS, TB and Malaria; the TB Modelling and Analysis Consortium; the Department of Foreign Affairs and Trade; Melbourne Sexual Health Centre; and the Victorian Tuberculosis Program.

The Unit will build capacity in demographic modelling and recruit staff adept in software development and demography in 2018.

**Cochrane Australia**

*Professor Sally Green and Mr Steve McDonald, Co-Directors*

Cochrane Australia held its biennial symposium in Melbourne in 2017, with a theme of ‘Towards living evidence’. Leading researchers, policy makers, clinicians and research funders explored the new tools, systems and technologies that promise to provide us with continually updated evidence to inform decision-making in the future.

There was also a strong focus on training at Cochrane Australia’s mid-year Learning Week event, which involved a series of day-long workshops looking at all aspects of conducting systematic reviews and disseminating health evidence.

**Research Governance**

*Professor Sophia Zoungas, Chair*

The Research Governance Committee (RGC) was chaired by Prof Sophia Zoungas with Marina Skiba in the role of Research Governance Officer. Its purpose is to support researchers and research students at SPHPM in the conduct of high quality research.

The Unit provides researchers with resources such as the school Guide to Good Research Practice, advice and assistance to ensure that the school continues to meet high research conduct standards.

Activities undertaken in 2017 include:

- Overseeing the Research Governance component of compulsory staff and student inductions.
- Managed online and face-to-face research governance training to existing staff and students.
- Involved in the delivery of 17 TransCelerate Accredited ICH Good Clinical Practice programs and five refresher courses to staff from Monash Partners organisations.
In 2017 the Unit delivered advanced biostatistics short courses in causal inference, prediction modelling, meta-analysis and longitudinal data analysis, and continued its active research roles in clinical trial designs, particularly cluster randomised trials and platform trials, and in statistical analysis issues in clinical trials, spatio-temporal modelling and complex systematic reviews. These included successful MRFF grants involving platform trial designs, an NHMRC grant in systematic reviews of interrupted time series, and coordination of an international meeting to develop the CONSORT extension statement for stepped wedge trials.

Biostatistics
Professor Andrew Forbes, Head

The Biostatistics Unit is actively engaged in methodological biostatistical research relevant to the solution of practical problems in clinical research, in addition to teaching activities in postgraduate and undergraduate biostatistics, clinical research and public health courses. The Biostatistical Consulting Platform (BCP), within the Biostatistics Unit, provides statistical collaboration, support, consultation and advice for staff of the Monash Faculty of Medicine, for Alfred Hospital researchers, and for doctoral students at Monash University. The BCP web page is monash.edu/medicine/sphpm/depts-centres-units/biostats-consulting

Committee members, Terms of Reference, RG Annual Reports, current SPHPM Guide to Good Research Practice and other relevant information can be found at: monash.edu/medicine/sphpm/research/governance
Finally, we expanded the Australian and New Zealand Myeloma and Related Diseases Registry and secured major funding to extend its activities in partnership with collaborators in Korea, Singapore, Hong Kong, and Taiwan.

Dr Zoe McQuilten was honoured as the Scott Murphy Lecturer at the Biomedical Excellence for Safer Transfusion Collaborative meeting.

**Australian Breast Device Registry (ABDR)**

**Dr Ingrid Hopper, Head**

The ABDR monitors device performance, patient health outcomes and quality of surgery involving breast implants, breast tissue expanders and acellular dermal matrices nationally.

In 2017 the ABDR reached a significant milestone with 23,000 patients in the registry, and utilised SMS technology to collect patient feedback on the look and feel of implants for the Patient Reported Outcomes (PROMs) follow-up study.

We led two Modified Delphi processes: one to identify a minimum dataset that will facilitate data harmonisation between international breast implant registries, and second to ascertain quality indicators of care in breast device surgery in Australia and around the world.

We also developed our first annual report for publication.

**Registry Science Unit**

**Dr Susannah Ahern, Head**

Monash Clinical Registries are supported by the Registry Science Unit (RSU).

The RSU provides strategic and policy advice and liaises with legal counsel, information technology and research governance to ensure Monash registries provide best registry practice. In 2017, the SPHPM Health Services Research Unit came under the leadership of the RSU, providing a mutually beneficial collaboration of registry and mixed methods research.

The RSU provides access to senior and experienced statisticians and data analysts for registry reporting and more complex research-related activities. The RSU data analysis team work closely with registry practitioners to plan and design procedures for data analysis, undertake quality control audits of registry data, provide statistical support to produce annual reports, and conduct training courses and workshops. The team is also involved in collaborative and methodological research, including simulation studies to improve the application of funnel plots for rare/sparse disease outcomes, geo-spatial Bayesian hierarchical models for areal data, risk-adjusted csum models and reporting checklist for registry data.

The RSU also collaborates with numerous registries to support a best practice approach to implementing patient reported outcome measures (PROMs).

PROMs are recognised as valuable information regarding a patient’s functional and psychosocial recovery following a disease or procedure. Combined with clinical measures, PROMs can provide a more holistic view of the impact of a disease/procedure on patients and their carers. Monash Clinical Registries collecting PROMs include the Victorian State Trauma Registry, the Victorian Orthopaedic Trauma Outcomes Registry, the Prostate Cancer Outcomes Registry, the Myeloma and Related Diseases Registry, the Australian Breast Device Registry and the Bariatric Surgery Registry.

The RSU manages new and establishing registries, currently comprising:

- The Australian Cystic Fibrosis Data Registry
- The Australian and New Zealand Thyroid Cancer Registry
- The Australian Spine Registry
- The Dementia Pilot Clinical Quality Registry

The RSU is the point of contact for researchers, clinicians and consumer organisations who are interested in establishing a clinical quality registry.

monash.edu/medicine/spphpm/depts-centres-units/transfusionresearch

abdr.org.au

monash.edu/medicine/spphpm registries/registry-sciences-unit
The Centre completed the latest cancer and mortality linkage for the long-term Health Watch study of 20,000 petroleum workers, and a review of jet fuel exposure and female reproductive effects for the Department of Veterans’ Affairs. The Australian Mesothelioma Registry was funded for a further four years in collaboration with the Australian Institute of Health and Welfare and the MonCOEH ARC Linkage grant prospective study of injured workers was completed.

The NHMRC Centre of Research Excellence (CRE) for Population Health Research on Electromagnetic Energy (PRESEE) continued to publish research around mobile phone base stations, Wi-Fi and personal exposure. These publications included results from a study involving 36 schools in Melbourne and Wollongong, and a study investigating mobile base station and Wi-Fi exposure in 20 kindergartens in Melbourne.

Hazelwood Health Study
Professor Michael Abramson, Head

Recruitment into the Adult Survey stream of the Hazelwood Health Study (HHS) closed in February, with over 4,000 participants. Preliminary health findings were released in September. Some Adult Survey participants were subsequently invited to participate in two clinical streams; Respiratory and Cardiovascular, which commenced recruitment in Sale and Morwell.

The HHS Community Wellbeing Stream reported on the social media component of their research and is progressing write up of a report on community recovery and wellbeing.

The HHS Older Person Policy Review stream publically released its first report in 2017. This contained important implications for policy development and program planning in relation to older people and disasters for best practice to improve preparedness for, and response to, a future disaster event.

The HHS researchers were heavily involved with community engagement and began working closely with the newly created Latrobe Health Assembly, Health Innovation Zone and Ministerial Advisory Committee.

Australian Centre for Human Health Risk Assessment
Professor Brian Priestly, Head

Professor Brian Priestly assisted the Victorian DHHS with a review of the potential health impacts of perfluoroalkyl substances (PFAS) that have been the subject of an increasing range of cases of environmental contamination incidents, mainly around airports and Defence establishments.

Aviation Medicine Unit
A/Professor David Newman, Head

The Aviation Medicine Unit celebrated its 25th year of teaching the highly successful short course, the Australian Certificate of Civil Aviation Medicine (ACCAM), a prerequisite for medical practitioners who wish to register with the Civil Aviation Safety Authority of Australia as Designated Aviation Medical Examiners.

The Unit also ran the first Advanced Aviation Medicine course in Doha, Qatar, in January and February. Run in conjunction with Qatar Airways, it is ideal preparation for an aviation medicine career requiring an advanced level of knowledge. The course reached maximum capacity with students consisting of ACCAM alumni and Qatar Airways staff.

In 2018, the Monash Basic course in Aviation Medicine will join the Monash program run in Qatar. The Aviation Medicine Unit also plans to secure the lease for an on-site 737-800 Boeing flight simulator and commence work on the Diploma in Aviation Medicine due to launch in 2019.

MonCOEH
Professor Malcolm Sim, Head

The Queensland Government’s Department of Natural Resources and Mines engaged MonCOEH to undertake two follow-up projects arising from the MonCOEH review into ‘Black Lung’ in Queensland coal miners in 2016. The first projects identified a framework for future health surveillance of coal miners and the second examined the de-identified health data and assessed its research potential.
The Critical Care Research Division comprises the Australian and New Zealand Intensive Care Research Centre (ANZIC-RC), the ANZCA (Australian and New Zealand College of Anaesthetists) Clinical Trials Network (CTN), and the Pre-Hospital, Emergency and Trauma Research (PET) Unit.

Highlights from the Division in 2017 include:

**Australian and New Zealand Intensive Care Research Centre**

Professor Jamie Cooper AO, Director

Professor Jamie Cooper AO was awarded an Officer of the Order of Australia (AO) for distinguished service to intensive care medicine in the field of traumatic brain injury as a clinician, and to medical education as an academic, researcher and author. He also presented the 5,000 patient TRANSFUSE trial results at ESICM, Vienna, Hot Topics Session, with concurrent publication in NEJM (Cooper et al. Age of Red Cells for Transfusion and Outcomes in Critically Ill Adults. 2017;377:1858-67).

Baxter Healthcare awarded $2.4m for a nutrition study in ICU patients to ANZIC-RC investigators including Emma Ridley (CIA), A/Professor Carol Hodgson and Professor Jamie Cooper AO; and also awarded a grant for TAME-RENAL led by Glenn Eastwood and Professor Alistair Nichol.

Professor Jamie Cooper AO was awarded an NHMRC Practitioner Fellowship.

A/Professor Carol Hodgson received the Monash Henry Krum Award for MCR Excellence and the AMREP EMCR Publication Prize; and the PREDICT study (CIA) won the ANZICS-CTG Best New Study Prize.

A/Professor Daryl Jones received an award from the Victorian DHHS/Safer Care Victoria for the MET quality improvement project.

Dr Neil Glassford received the Matt Spence Medal at the ANZICS ASM; and Best Oral Presentation at the Intensive Care Society State of the Art meeting in Liverpool, UK.

**Pre-hospital, Emergency and Trauma Unit**

Professor Belinda Gabbe, Head

Professor Belinda Gabbe was awarded an ARC Future Fellowship; an NHMRC Project Grant and an HCF Foundation Project Grant. Dr Ben Beck was awarded an ARC DECRA; the European Resuscitation Council Congress – Young Investigator of the Year; the Royal Australasian College of Surgeons – Brendan Dooley/Gordon Trinca Trauma Research Scholarship; the “Free Paper Prize” at the ARC Spark of Life Conference; and the Monash ECR Excellence Award. Professor Belinda Gabbe, Dr Christina Ekegren and Dr Ben Beck won three of the four awards at the Trauma 2017 Conference.

Joint ventures


monash.edu/medicine/sphpm/anzicrc

monash.edu/medicine/sphpm/depts-centres-units/traumaepi

**Other Networks and Centres within Critical Care Research**

**ANZCA-CTN**

Professor Paul Myles, Head

monash.edu/medicine/sphpm/depts-centres-units/anzca

**Aus-ROC**

Professor Judith Finn, Director

ausroc.org.au

**NHMRC Centre of Research Excellence for Patient Blood Management in Critical Illness and Trauma (Blood-CRE)**

Professor Jamie Cooper AO, Director

monash.edu/medicine/sphpm/anzicrc/research/blood-cre

**Trauma 2017 prize winners Prof Belinda Gabbe, Dr Ben Beck and Dr Christina Ekegren**
Jean Hailes Research Unit

Professor Jane Fisher, Head

The Unit works in partnership with Jean Hailes for Women’s Health, a community-based research translation and clinical care provider. It seeks to understand and address gender-based risks to health in the social, economic, cultural and political contexts of women’s lives. Projects in Australia and the Asia-Pacific region include trials of psycho-educational programs for perinatal mental health and early childhood development; and investigations of fertility management; interpersonal violence and mental health; reproductive health after cancer; and the impact of natural disasters.

Michael Kirby Centre for Public Health and Human Rights

A/Professor Bebe Loff, Head

In collaboration with the South Eastern Centre Against Sexual Assault, a trial of an innovative justice option for victim-survivors of sexual and family violence continued this year. The Kirby Centre was successful in securing funding from the National Institutes of Health for health, ethics and the law projects in India and Myanmar. The Health Legal Partnership established by the Kirby Centre in collaboration with Alfred Health and Morris Blackburn Lawyers provided a service to its 1,000th client.

Andrology Australia

Professor Rob McLachlan, Head

Andrology Australia began in 1999 with the aim to improve community and professional education and research in targeted areas of male reproductive health including androgen use and abuse, male infertility, erectile dysfunction, testicular cancer and prostate disease (including prostate cancer).

In 2017, the Department of Health funded the organisation until 2020 to ensure that Andrology Australia could continue its mission and assist in the formation of a new national Male Health Policy, whilst providing much needed training, education and policy advice to the community and health professionals in a range of male health areas.

monash.edu/medicine/sphpm/depts-centres-units/jean-hailes
monash.edu/medicine/sphpm/michael-kirby
andrologyaustralia.org

The Division of Social Sciences is a collection of Units aiming to inform public health, policy, health services, and clinical practice through social science research and education. All are multidisciplinary teams of academics and postgraduate students. The division comprises the Jean Hailes Research Unit, the Michael Kirby Centre for Public Health and Human Rights, and Andrology Australia.

To address inequalities in health and healthcare it is essential to understand people’s sociocultural, political and economic circumstances. We conduct research and provide technical advice using our theoretical and methodological expertise in epidemiology, ethics, gender studies, implementation science, law, medicine, nursing, psychology, public health, sociology, and statistics. Fields include health, illness, and complex stigmatised conditions.
function of older people. With statins, currently one of the most frequently prescribed drugs globally, answers to these questions will guide future health policy and patient care around the world.

In 2017, the study had a very successful year with establishment of clinical trial hubs in Queensland, New South Wales, South Australia, Northern Tasmania and Regional Victoria, and involvement of participants through a body of over 1,800 general practitioners, 800 practices and a number of senior community networks.

STAREE’s focus for 2018 will include further collaboration with international partners to expand the trial program. The trial will be pivotal in influencing the way that statins are used by older people in the future.

Diabetes and Vascular Medicine
Professor Sophia Zoungas, Head

The Australian National Diabetes Audit (ANDA) is a well-established, benchmarking activity and registry measuring performance of services providing diabetes care across all states and territories of Australia. Participating centres receive an individualised report of their clinical practice processes and patient outcome data in comparison with their peers. In addition, the pooled national report is an important source of cross-sectional data on the clinical status and outcomes of people with diabetes across the country. The dataset collected is the National Diabetes Outcomes Quality Review Initiative (NDOQRIN) minimum dataset for quality care in diabetes, published in the Australian Institute of Health and Welfare (AIHW).

In 2017, 63 diabetes centres provided de-identified data on a total of 5,719 patients seen during the one-month survey period of May or June 2017. Centres are encouraged to use any variation in clinical performance to inform local implementation of targeted, evidence-based quality improvement activities.

In 2017, Monash secured funding from the Australian Department of Health to continue the activity through to 2021. This funding will also allow expansion of the activity into primary care and a longitudinal follow up that will assess the longer-term outcomes of patients with diabetes.

Public Health Genomics Program
Dr Paul Lacaze, Head

The Public Health Genomics (PHG) program has expanded significantly coinciding with a period of rapid growth in the field of genomics. Since its inception and appointment of inaugural head Dr Paul Lacaze in 2015, the PHG program has taken a national leadership role, conducting research into many important questions associated with the mainstreaming of genomic medicine. These include; how to effectively convert large amounts of DNA sequence data into actionable medical information; how to interpret and disclose genetic information responsibly; and how to address the regulatory and ethical challenges with expanded genetic testing.

Large community-based cohorts at Monash, such as ASPREE and STAREE, have enabled research into these questions. This has involved DNA sequencing of over 10,000 samples from the ASPREE Healthy Ageing Biobank over the past year, making the PHG program one of Australia’s largest genomics projects. Genetic data is integrated with extensive medical and lifestyle information from the ASPREE study, creating a powerful data resource, SPHPM Research Fellow Moeen Riaz, alongside Jerico Revote from the Monash eResearch Centre (MeRC), have been instrumental in building the computation infrastructure and data expertise required for taking on something of this scale. The project was made possible by partnerships with leading genomics centres at the Garvan Institute of Medical Research in Sydney and the Icahn Institute at Mount Sinai School of Medicine in New York.

In parallel to data challenges, the PHG program has also taken on some of the pressing ethical, social and regulatory issues in the field. These include the use of genetic information by life insurance companies in Australia, the regulation of internet-based direct-to-consumer DNA tests; and public involvement in genomics research. Dr Lacaze, alongside colleague Jane Tiller LLB, have spearheaded a national effort to ban the use of genetic test results in life insurance, and have made significant progress in providing evidence to a Parliamentary Inquiry and making several media appearances.

As the field of public health genomics continues to grow in coming years, the Monash program is positioned ideally to contribute, through research and thought-leadership.

| monash.edu/medicine/spphpm/depts-centres-units/diabetes-and-vascular-medicine |
| monash.edu/medicine/spphpm/depts-centres-units/genomics-program |
MCHRI is a partnership between Monash Health and Monash University, under the direction of Professor Helena Teede, that aims to undertake clinical, health services and public health research and to implement and translate the generated knowledge.

Prominent achievements include the involvement of several leaders in prestigious fellowships: Associate Professor Lisa Moran, a leading public health and nutrition researcher and dietician, received an NHF future fellowship; Professor Teede received a level II Practitioner Fellowship; and Dr Siew Lim and Dr Briony Hill joined the team as NHMRC Early career fellows.

All leaders are directly integrated into MCHRI, with research embedded within health care and community services. Publications have been prolific, with over 100 manuscripts accepted for publication in 2017. The Centre also attracted independent research funding from NHMRC, ARC, philanthropy, government and non-government organisations. We hold an NHMRC Centre for Research Excellence, an MRFF Centre for Research Excellence in Preventative Health and an NADC Centre of Excellence.

International collaborations are strong, especially through the NHMRC CRE International PCOS network (34 societies internationally) and the International Women’s Health Program (IWHP) international lifestyle in pregnancy collaboration.

The postgraduate student training program, with PhD students from a variety of backgrounds including nursing, paramedic, dietetics, medicine, midwifery, health promotion, exercise physiology, and psychology, continues to support students across our research interests; with additional training offered in innovation, health care improvement research and implementation into practice as well as the use of effective research communication to promote health research.

The Centre is underpinned by cross sector end-user engagement, integrating research, workforce development and translation and delivering health impact.

In 2017, the Centre continued to grow and expand our research team and diversity of work, welcoming key internationally recognised research leaders including Professor Helen Skouteris, newly appointed Monash Warwick Professor for Health Care Improvement; Helen brings with her 12 of her team and considerable expertise in co-design, implementation, evaluation and scale up of interventions.

We have also welcomed many new staff to the research team assisting in the delivery of key initiatives across the Centre.

Several of our leaders received fellowships – Associate Professor Lisa Moran, a leading public health and nutrition researcher and dietician attracted an NHF future fellowship; Prof Teede a level II Practitioner Fellowship; and Dr Siew Lim and Dr Briony Hill joined the team as NHMRC Early career fellows.

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Drug Harm Prevention Unit
Dr Jennifer Pilgrim, Head

The unit focuses on the investigation of the harmful outcomes of licit and illicit drug use in the community. This is achieved through multidisciplinary studies that encompass forensic toxicology, public health and injury epidemiology. Research projects include investigating the contribution of alcohol, over-the-counter, prescription, and illicit drugs to sudden and unexpected deaths.

Current research themes within the unit include prescription drug misuse, opioid addiction and harm, alcohol-related suicide, and drug-facilitated assault and violence. Highlights for 2017 include collaborations with local and international institutions of high regard, including the Karolinska Institute and San Francisco’s Chief Medical Examiner Office in the USA; projects exploring heroin use and overdose treatment, including alerting Victorians to the emergence of heroin-laced fentanyl; the co-development of the Toxicologist database, the world’s first international evidence-based reference for toxic drug concentrations; supervision of Global Health Honours students, all of whom finished with First Class Honours; and a prize-winning Honours student exploring family violence.

Other Activities in the Unit

The Unit worked with VIFM towards a submission to the 2017 Victorian Drug Law Reform. A collaborative research program was also established in conjunction with Austin physicians, to develop a clinical toxicology service for emergency department presentations.

This service will be available to a targeted network of Melbourne based hospitals, providing novel data for Victoria, and will contribute towards a national early drug warning system currently in development with researchers at Australian National University.

Jennifer continued to coordinate the VIFM Seminar Series, which included a program of Australian and international speakers from disciplines in health, medicine and the law. She also chaired the VIFM Research Collective; a monthly research forum for VIFM and DoFM staff with regular presentations discussing research projects throughout the organisation.

Health Law and Ageing Research Unit
Professor Joseph Ibrahim, Head

This Unit is responsible for education and research that prevents injury and improves health care and quality of life for older people. Current major research projects include preventable deaths in aged care; dignity of risk; elder abuse and neglect; dementia and end-of-life care; and research programs for geriatric medicine specialists.

The Unit’s research has been the subject of national television news stories, national and state commercial and public broadcast radio interviews and over 60 international and national print or on-line media articles.

Two notable works included release of the film Dignity of Risk by P Bando, J Ley and JE Ibrahim which won multiple awards including ‘Best Narrative Film’ at Global Impact Film Festival (Washington DC Aug 2017) and was an official selection for the United Nations Association Film Festival (San Francisco Oct 2017).

The Unit’s research led to the first comprehensive national study of injury-related deaths among nursing home residents in the world. The research drew wide spread media attention reaching over 5.7 million people through: National public television ‘The 7.30 Report on the ABC’ and ‘The Project’ on Channel 10; national online and print media (The Conversation, The Age and The Herald Sun); and various national and regional radio programs. The Medical Journal of Australia recognised this work as amongst “Top 10 research studies for 2017.”

The Unit continues to publish the Residential Aged Care Communiciqué, the Future Leaders Communiciqué and the Clinical Communiciqué with over 15,000 subscribers and an estimated readership in excess of 45,000 health professional in Australia and globally.

Injury Prevention Research Unit
Professor Joan Ozanne-Smith

AO, Head

This Unit currently conducts research and promotes policy development on drowning prevention, falls prevention, product safety, child injury prevention and family violence. This research combines the methods of epidemiology with those of other relevant disciplines (such as engineering) and covers all age groups and settings, including an emphasis on low and middle income countries. The Unit also conducts research and development on Victorian, National and International injury data systems.

monash.edu/medicine/sphpm/forensic
vifm.org
vifmcommuniques.org

The Department of Forensic Medicine (DoFM) exists in parallel with an operational forensic medical service at the Victorian Institute of Forensic Medicine (VIFM). This is the only university in Australia with this unique arrangement, allowing DoFM to continue to advance the discipline of forensic medicine and its associated sciences through training and development of future practitioners and increasing the evidence base through research. Associate Professor Richard Bassed is the Department Head and Professor Noel Woodford is Deputy Head.

Major highlights during the year included substantial improvements and strengthening of the Masters in Forensic Medicine; and a number of outputs from the three research units of Health Law and Ageing Research, Drug Harm Prevention, and Injury Prevention. During 2017, DoFM produced 51 peer-reviewed journal articles. There was one book and four book chapters. Fifteen PhD students were either enrolled in the Department or supervised by our staff, of whom three submitted their dissertations.

In line with VIFM’s strategic plan a senior research fellow role was allocated funding to strengthen the academic performance of the Institute’s Forensic Services division. Dr Jennifer Pilgrim was successful in this recruitment process and commenced in her new role in late 2016.
The Teaching and Learning Division has oversight of the School’s educational portfolio, but also conducts research into novel technologies and strategies that may enhance education. We also house the School’s Gambling Health Unit, led by Dr Charles Livingstone.

A/Professor Dragan Ilic oversees the entire Division, covering research and education portfolios.

Gambling and Social Determinants Unit
Dr Charles Livingstone, Head

The focus of the Gambling and Social Determinants Unit is on developing effective harm prevention and minimisation interventions and policy for the harms associated with gambling, and with other non-communicable disease. To pursue this, we adopt a “social-determinants” approach: that is, we examine the upstream causes of harm, and seek to develop policy and other responses to prevent illness and harm. We work extensively in gambling harm prevention, but current projects include identifying the commercial determinants of health and applying these principles to the food industry, and other “dangerous consumption” industries, which we know are increasingly responsible for harms including obesity, poor mental health, and gambling and alcohol harm. Additionally, recent work has focused on the role of health promotion in reducing the adverse health effects of climate change, and identifying measures from diverse public health domains for adaptation to new domains of harm prevention.

Medical Education Research and Quality (MERQ) Unit

Led by A/Professor Dragan Ilic, the MERQ unit has a strong focus on pedagogical research in medical and health education alongside teaching in clinical, biomedical and health science disciplines. The MERQ unit coordinates and conducts studies across all facets of medical education including unit/course development, methods of learning, assessment, accreditation, training and evaluation.

Major projects in 2017 included:

• Research examining the effectiveness assessment techniques and technology in health professional education;
• Evaluating the cost and value of health professional education;
• Professional development through the Teaching Associate Coaching (TAC) program; and
• Development of public health teaching resources through an e-book interface.

In 2017, the MERQ team also received project funding from the Monash Teaching & Learning Fund, MBBS development grants and the Monash Education Academy. The Unit continued to promote capacity building through its involvement with the SPHPM Summer Vacation Program.

monash.edu/medicine/sphpm/depts-centres-units/merq

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EDUCATION

UNDERGRADUATE TEACHING

POSTGRADUATE TEACHING

HIGHER DEGREE BY RESEARCH (HDR) PROGRAM

SHORT COURSES
Since graduating, Mitchell has worked in numerous roles in health promotion, health literacy, refugee health, quality evaluation, quality improvement and healthcare communications in local councils and primary care.

Mitchell says, “[My degree] taught me to think critically, which can be applied to thousands of jobs in a number of areas, so it makes me employable. It also ignited a passion that I think I already had, but wasn’t aware of – working towards equity and social justice in healthcare.”

**Bachelor of Public Health Science**

The Bachelor of Public Health Science was again delivered in 2017. This public health science course substitutes the previous Bachelor of Health Science course, which is due to be taught out by 2018/19. Over 200 students were enrolled across both degrees, with the new Bachelor of Public Health Science degree providing students with expertise in a variety of public health disciplines including epidemiology, clinical research methods, health promotion, policy, environmental and global health.

The flexibility of the new degree enables students to pursue further studies through Honours or a PhD as well as providing them with the resources to seek employment in the diverse field of allied health. Graduates of the new program will also have a pathway into the restructured Master of Public Health program.

**Monash MD**

This year saw the medical course at Monash University transition from an MBBS to an MD. The current cohort of first year clinical students will be the first to graduate with a Monash MD in 2020. The overall medical program will continue to be offered as both a 5-year undergraduate course and a 4-year graduate-entry program. Led by Professor Robin Bell, the School of Public Health and Preventive Medicine has made an important contribution to the conversion of the medical course to a Masters level program. Two key aspects of the transition to the MD include the development of the online research methods program and a scholarly integrated placement. The online research methods program has been developed by Dr Basia Diug, and will be implemented for the first time in 2018 with the clinically based students. All students will undertake a scholarly intensive program during the final year of their training. Students placed with our School will gain valuable exposure to clinical research practices.

Our School staff contribute to the Monash medical course through the following activities and roles:

- **Professor Robin Bell** is the Curriculum and Assessment Lead for theme II.
- **Year 1:** Dr Helen Ackland coordinates Health, Knowledge and Society in first semester and Ms Penny Robinson coordinates Population Health in second semester.
- **Year 2:** Professor Michael Ackland coordinates the Health Promotion/Evidence Based Medicine program which runs in both semesters. Other staff teaching into this program include Dr Basia Diug, Dr Maithri Goonetilleke and Professor Robin Bell. The two-week Prevention Science program delivered in each semester is coordinated by Dr Basia Diug. The program provides a unique opportunity for students to meet SPHPM staff within the clinical context at AMREP, and better understand the link between research, prevention and clinical practice.

- **Year 3:** A/Professor Dragan Ilic coordinates Evidence Based Clinical Practice, which runs in both semesters. Dr Basia Diug coordinates the online Research Methods training in semester 1. Dr Amanda Silcock coordinates Occupational and Environmental Medicine, which runs in Semester 2.
- **Year 4:** Evidence Based Clinical Practice continues throughout Year 4 under the direction of A/Professor Dragan Ilic. In Semester 1 of Year 4, A/Professor Biswadev Mitra coordinates Health Services Management. In Year 4 the students also complete an online unit in Health Economics, which is co-ordinated by A/Professor Duncan Mortimer from the Centre for Health Economics in the Monash Faculty of Business and Economics.

- **Year 5:** Dr Helen Ackland coordinates an online module in International Health and Professor Robin Bell co-coordinates an online module on Midlife Women’s Health. The 5th year students complete these modules while they are doing their specialty rotation.

**GRADUATE CAREER PROFILE**

**MITCHELL BOWDEN**

**Course:** Bachelor of Health Science / Bachelor of Social Work

**Graduated:** 2013

Since graduating, Mitchell has worked in numerous roles in health promotion, health literacy, refugee health, quality evaluation, quality improvement and healthcare communications in local councils and primary care.

Mitchell says, “[My degree] taught me to think critically, which can be applied to thousands of jobs in a number of areas, so it makes me employable. It also ignited a passion that I think I already had, but wasn’t aware of – working towards equity and social justice in healthcare.”
Bachelor of Biomedical Science (BMS)

SPHPM’s ‘BMS1042: Biomedical Science and Society’ is the School’s biggest core biostatistics and epidemiology undergraduate unit, with 672 students enrolled in 2017. Unit Coordinator Dr Basia Diug works with Ms Penny Robinson to continue to incorporate innovative teaching methods, such as Q&A panels, to ensure that students are reaping the best benefits and are engaged across the module. The unit embraced a ‘partners in teaching approach’ between staff and students, with weekly polls on current public health topics, giving the students opportunities to express their views and thoughts on relevant topics in the field.

In 2017, ‘BMS3052: Biomedical basis and epidemiology of human disease’ was taught to 408 students. This unit aimed to develop key research skills in the BMS cohort by having the students complete a systematic review and critically appraise evidence. This is in addition to the existing elective ‘BME3032: Introduction to the Health System’.

In 2017, 8 BMS students completed the SPHPM Summer Vacation Program as well as 16 students completing the Bachelor of Biomedical Science Honours Program.

SPHPM Summer Vacation Program

Twenty-one students completed the Summer Vacation Program in 2017. This is a competitive one-month scholarship program offered by SPHPM. Students involved are completing degrees in the Bachelor of Biomedical Science, Bachelor of Health Science and the Bachelor of Medicine and Surgery. Each student works closely with a senior researcher, completing a small research project or working with existing research being undertaken by the relevant department.

Students within the program have the opportunity to visit the Victorian Institute of Forensic Medicine and the Alfred Health Radiation Oncology Department. Students are also able to attend many seminars and events hosted by the School.

Feedback from the program continues to be very positive, with students enjoying the chance to experience research first hand and improving their clinical, statistical and research skills. Students are also able to better understand the several career pathways open to them in medicine and health.

Undergraduate and Graduate Entry Medical Law Programs

The Department of Forensic Medicine within SPHPM teaches medical law to undergraduate students enrolled in the MBBS. The content encompasses 10 different fields of law which are associated with clinical practices. The tutorials have included various professionals including medical lawyers (40-60 in total), staff from the Victorian Institute of Forensic Medicine (VIFM) and clinicians who offer their expertise and experience each year for this program.

Mrs Jo-Anne Mazzeo, as a contributing lawyer since the program’s inception, accepted the role of Co-Convenor in 2016 to support Associate Professor David Ranson as Convenor. The Program encompasses topics such as negligence in clinical practice, mental health legislation and organ and tissue donation.

Forensic Evidence: Law, Science, Medicine and Technology Unit

For 24 years, the Department of Forensic Medicine and the Faculty of Law have jointly offered teaching to undergraduate law students in a unit, formerly known as ‘Elements of Forensic Medicine’ and renamed ‘Forensic Evidence: Law, Science, Medicine and Technology’ in 2015. In 2016, Professor Stephen Cordner and Emeritus Professor Louis Waller, who have taught the unit since its inception, handed over the reins to Jamie Walvisch, Lecturer in the Faculty of Law, and Anna Davey, Adjunct Lecturer in the Department of Forensic Medicine.

The unit has contributions from a number of visiting lecturers, especially from the Victoria Police Forensic Services Department. This is an optional subject in the law course (and one that few universities have available) and introduces law students to the realities of forensic science and medicine which are somewhat removed from the powerful and potentially misleading influence of NCIS and related television dramas.

Our 2017 Summer Vacation cohort
In 2017 the Department of Epidemiology and Preventive Medicine (DEPM) offered postgraduate courses by coursework in Public Health, Biostatistics, Clinical Research Methods, Health Services Management, Occupational and Environmental Health.

Overall our course enrolment numbers continued to grow with over 670 postgraduate students enrolled in DEPM postgraduate courses by coursework; 232 of these were enrolled in one of the two new online Masters programs introduced in 2014. Seventy postgraduate units were taught across various teaching periods, mainly in online plus block mode, online or in day mode.

In 2017 a number of our courses underwent their five year review. This was a very successful exercise that involved the hard work of a large number of committed staff. The review enabled us to identify a number of opportunities in the postgraduate teaching area. We were able to build on this review and restructure our courses to offer different entry points to potential students based on their previous academic and professional experience. We are confident that this will offer students flexibility and enhance the teaching experience for our students.

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**Public Health**
A/Professor Dianna Magliano, Course Coordinator

The Master of Public Health (Multi-modal) course structure offers three entry levels enabling qualified applicants to enter the course at 48, 72 or 96 credit points. This course remains the most popular program within the School. Through core units and a range of electives offered in a flexible program, it provides the full range of quantitative, analytical and communication skills necessary to work in the broad domain of public health. It also provides skills in the quantitative methods of the population based health sciences and their problem solving application for primary care provision within Australia and globally.

The Master of Public Health (Multi-modal) fulfils the core discipline requirements for the Australasian Faculty of Public Health Medicine, Royal Australasian College of Physicians.

The Master of Public Health (Online) is the online program consisting of 12 core units taught in six-week teaching periods which commenced in mid-2014. This Master of Public Health fulfils the core discipline requirements for the Australasian Faculty of Public Health Medicine.

Students who have completed the requirements of the course can exit with a Graduate Diploma or Graduate Certificate in Public Health.

**Health Services Management/Health Administration**
Dr Susannah Ahern, Course Coordinator

The Master, Graduate Diploma and Graduate Certificate of Health Services Management provides professionals currently in, or seeking to be in, middle and senior health care management positions with the theoretical knowledge base to expand their knowledge and skills in the management of health services.

This course caters for the special needs of medical and general hospital administrators, clinical doctors, quality assurance managers, team leaders, senior nursing administrators, unit managers and a range of general task coordinators within the health care system. The Master of Health Administration (Online) is the online program consisting of 12 core units taught in six-week teaching periods that commenced in mid-2014. Both these Masters courses are accredited by The Australasian College of Health Service Management (ACHSM).

**Biostatistics**
Professor Andrew Forbes, Course Coordinator

The Master and Graduate Diploma of Biostatistics courses are taught as part of a national consortium of universities known as the Biostatistics Collaboration of Australia (BCA).

This course provides a sound understanding of the theory and application of biostatistics relevant to professional practice and will assist the acquisition of skills and experience in complex statistical analyses, identifying and implementing appropriate statistical methodology, communicating biostatistical results and understanding biostatistical literature. The Master course develops the technical skills for commencement in a professional career as a biostatistician.

Students who have completed the requirements may exit with a Graduate Certificate in Biostatistics.

**2017 EDUCATION HIGHLIGHTS**

- New International postgraduate students enrolled from the following countries: Bangladesh, China, India, Indonesia, Iran, Japan, Philippines and Saudi Arabia.
- Overall postgraduate course enrolments remained stable.
- The Master of Public Health (Multi-modal) 96 credit point entry level course had its first intake following completion of course architecture.
- The Master of Public Health (Multi-modal) introduced Graduate Diploma and Graduate Certificate in Public Health as exit options.
Clinical Research Methods

Professor Danny Liew, Course Coordinator

The Master of Clinical Research Methods assists health professionals to make rational evidence-based decisions in clinical practice and undertake small clinical research projects.

This course adopts an integrated approach to learning, with a case oriented focus so practitioners can learn how to apply academic theory and knowledge to practical clinical situations.

Students who have satisfied the requirements can exit with a Graduate Diploma or Graduate Certificate in Clinical Research Methods.

Forensic Medicine

In 2017, the Master of Forensic Medicine commenced the new course structure; streaming students into three distinct specialisations – Clinical Forensic Medicine, Forensic Odontology, and Forensic Medical Science. The course has three common core units and a series of required units and electives pertaining to each discipline. The Forensic Medical Science stream is entirely new and will include a suite of new units currently in development on topics including forensic pharmacology, quality management in forensic science, forensic imaging, and mortuary technical science. All units have been re-graded to AQF Level 9 Expert masters units.

In late 2017, entry to the Master of Forensic Medicine was opened to Registered Nurses with relevant clinical experience, providing opportunities for more forensic practitioners to assist their communities here and overseas.

Occupational and Environmental Health

The Master and Graduate Diploma of Occupational and Environmental Health courses provide workplace professionals with the skills and knowledge to prevent and manage occupational risks and related health problems. The course also provides health professionals with the skills necessary to evaluate health problems in communities thought to be associated with industrial activities, and control related hazards and risks.

It is particularly suitable for medical practitioners, nurses, allied health personnel, scientists and occupational health and safety managers. The Master and Graduate Diploma are accredited by the Australian Occupational Health Safety Education Accreditation Board (ACH-SEAB), are recognised by Australasian Faculty of Occupational and Environmental Medicine (AFOEM), and Royal Australian College of General Practitioners (RACGP) points can be applied for annually.

The International Public Health Training Program

SPHPM trains doctors and dentists from overseas for senior roles in public health in their home countries. The program continued in 2017 with the completion of our 2016 intake, three trainees from Saudi Arabia. The visiting doctors undertook research in the areas of Occupational Health, Emergency and Trauma, Infectious Diseases and Health Services Research. As part of their training program they visited a number of public health organisations which included Ambulance Victoria, Heart Foundation, Cancer Council, Baker IDI and the Alfred Hospital. The School thanks these organisations for their ongoing support hosting this program. This program has been running for over 10 years within the School and is coordinated by Dr Jay Illesinghe and Sharon Gurry.

- A/Prof Dianna Magliano was appointed as course coordinator for the Master of Public Health (Multi-modal). A big thank you to Dr Helen Kelsall for her role as previous coordinator.

- Dr Susannah Ahern was appointed as the course coordinator for the Master, Graduate Diploma and Graduate Certificate in Health Services Management and the Master of Health Administration. A big thank you to Prof Just Stoelwinder for his extended leadership as course coordinator for both courses over the years.

- The Australasian College of Health Services Management re-accreditation status for 4 years to 31 December 2021 of:
  - Master of Health Services Management
  - Graduate Diploma of Health Services Management
  - Graduate Certificate of Health Services Management
  - Master of Health Administration

- Commencement of the new Master of Public Health (Multi-modal) core unit MPH5228 ‘Introduction and challenges in public health’, coordinated by Dr Helen Kelsall.

- Commencement of the revamped elective unit MPH5277 ‘Practical data management’, coordinated by Dr Jessica Lockery.

- Appointment of new unit coordinators:
  - A/Prof David Hillis – MPH5273 HSM case study
  - Dr Peter Bradford – MPH5266 Clinical leadership and management
  - Prof Ian Rouse – MPH5315 Introduction to management
  - Dr Jessica Lockery – MPH5277 Practical data management
  - Ms Nicole Mollard – MPH5265 Law for health systems and MPH5307 Introduction to health law principles
  - Dr Tracy Robinson – MPH5311 Safety and quality in health care

- Implementation of the SPHPM Learning & Teaching Resources Hub.

- Appointment of Educational Designer Dr Raya Darcy.

- Appointment of Lynne Denby as program manager for the Master of Health Services Management and Health Administration.

- Appointment of Monash Online program manager Dr Nazmul Karim.

- Postgraduate Teaching Symposium held in October.
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<tr>
<th>Course Title</th>
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<th>Student Course Completions</th>
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The SPHPM HDR program trains health professionals for senior careers in public health and clinical research in Australia and overseas. The program has students from many academic backgrounds including medicine, science, physiotherapy, public health, psychology, nursing, social science and various others.

Student progress is facilitated by a very strong research environment that includes a broad program of NHMRC-funded projects and access to extensive infrastructure.

Guidance is provided by experienced supervisors in many areas of public health and clinical research including biostatistics and data management.

Our cohort grew in 2017 with 45 students commencing research, while 34 completed or withdrew. We maintain a cohort of around 180 students, of whom about 93% are undertaking a PhD and 7% a master’s degree by research. The program attracts students both domestically (80% of cohort) and internationally.

Professor Sally Green and Kathryn Daly form the Graduate Research team, and help guide students through the various hurdle requirements of their degree. Support is also provided by the Good Research Governance Coordinator, Marina Skiba, who can advise HDR students on the development of protocols and adherence to strict research guidelines.

During 2017, 23 of our students completed Doctorate of Philosophy and 2 completed Master of Surgery degrees. 84% of these passed with only minor amendments, if any, required. Thesis topics at the School continue to cover a wide range of clinical research and public health topics, relevant to both Australia and overseas regions. Some 2017 passing thesis topics include:

- Evaluation and validation of burn care clinical quality indicators within the Burns Registry of Australia and New Zealand (BRANZ)
- The descriptive epidemiology of severe burn injury in Australia and New Zealand
- A comparison of costs and effectiveness of coronary revascularisation strategies in the Australian context
- Determinants of organisational change to increase health equity through sport
- Investigation of exposures and health effects from mobile phones and other sources of radio-frequency radiation
- Participatory action research for health capability in a Swazi community caring for children affected by HIV and AIDS- a project ethnography
- Primary prevention of cardiovascular disease and diabetes in Mongolia: The role of primary care
- Paramedic exposure to cardiac arrest and patient survival: does practice make perfect?
- The epidemiology of fluid administration, fluid accumulation and fluid balance in the critically ill and the relationship between intravenous fluid therapy and patient-centred outcomes
- Understanding and influencing workplace sedentary behaviour
- Enhancing access and utility of assays for ART initiation and monitoring in HIV patients in resource-limited settings
- Predicting cardiac surgery outcome in an Australian patient cohort
- Dietary interventions to reduce advanced glycation end-products (AGEs)
- Hot weather and worker health in a changing climate
- Health service utilisation among people who inject drugs: the effects of demographics, substance use and health services
- The early response to out-of-hospital cardiac arrest in Victoria, Australia
- Obesity and sleep
- Improving outcomes for rheumatic heart disease in Indigenous populations
- Improving the health of women at midlife: menopausal symptoms, mood, medications and sexual function. A nationwide cross-sectional survey
- Optimising risk prediction, antenatal interventions and treatment targets in hyperglycaemia in pregnancy
- Poly-victimisation and mental health and quality of life of adolescents in Vietnam
- Peripheral and central mechanisms of limb position sense and body representation
- Determining the consequences of persistent estrogen depletion on older Australian women

**Awards received by Doctoral Students in 2017**

During the course of the year, more than $2.87 million dollars in scholarships and $43,000 in travel grants were awarded to our students. 33 students received the Australian Government’s prestigious Research Training Program Award (formerly Australian Postgraduate Award).

- Dr Sinjini Biswas
  National Heart Foundation Scholar
- Faculty of Medicine Postgraduate Excellence Award
- Rebecca Blackmore
  Australian Rotary Health Fund Scholar
- SPHPM Travel Grant

**Sharmayne Brady**
NHMRC Public Health Postgraduate Research Scholarship

**Sam Brilleman**
NHMRC Public Health Postgraduate Research Scholarship
SPHPM Travel Grant

**George Heriot**
Faculty of Medicine Postgraduate Excellence Award
Research Training Program Scholarship

**Briohny Kennedy**
Research Training Program Scholarship

**Adina Lang**
NHMRC Dora Lush (Biomedical) Research Scholarship

**Yuan Lim**
Faculty of Medicine Postgraduate Excellence Award
NHMRC Medical & Dental Research Scholarship

**Sarah McGuinness**
NHMRC Medical & Dental Research Scholarship

**Ebenezer Owusu-Addo**
Sir James McNeil Scholarship
Research Training Program Scholarship
SPHPM Travel Grant

**Emma Ridley**
NHMRC Public Health Postgraduate Research Scholarship
SPHPM Travel Grant

**Soulmaz Shorakae**
NHMRC Public Health Postgraduate Research Scholarship

**Stephanie Ward**
Faculty of Medicine Postgraduate Excellence Award
Research Training Program Scholarship
PHD STUDENT PROFILE  DR KEN CHIN

Ken began his PhD journey in October 2014 under the supervision of the late Professor Henry Krum. After the passing of Henry, Ken was supervised by Professors Danny Liew, Christopher Reid, Andrew Tonkin and Dr Ingrid Hopper. Ken was sponsored by the Malaysian government for his study.

“Heart failure remains a major clinical and public health problem, but the optimal use of pharmacological and non-pharmacological treatments in patients with heart failure can further reduce mortality and morbidity. My PhD explores issues associated with optimal use of evidence-based pharmacological therapy in chronic heart failure.”

Before commencing his PhD, Ken was a clinical pharmacist and lecturer in Malaysia. Ken has deep interests in cardiovascular science, particularly in the field of heart failure. “I’ve always been fascinated with the pathophysiology of the failing heart and recent advances in heart failure therapies.”

“Completing this mammoth task would not have been possible without the support and encouragement from many people along the way. I’m very grateful to be guided by teachers who are passionate and strong believers in teaching, supervision and doing good science. What struck me the most was that all my teachers are successful researchers and leaders in their own respective fields but remained humble at all times. The opportunity to grow up in this excellent place not only enabled me to develop vital research skills and the confidence to be an independent researcher, but also a better and more responsible person. I guess they are the very reasons why SPHPM is so successful and continues to attract talented people to work and study here.”

Ken’s research has garnered wide interest from the global heart failure fraternity with increasing citations. He was awarded several travel grants and Postgraduate Publication Awards to present his work in AHA scientific sessions, CSANZ annual scientific meeting. His thesis was rated as exceptional and at the forefront of international doctorates in the field.

Ken’s favourite quotes that he likes to share with others; ‘Keep it simple, stupid, because science itself is already terribly complicated’

“My key advice for PhD students would be to stay calm and reach out for support when you’re overwhelmed by your work. "Having a small group of buddies who could share your joy and pain in this ‘roller coaster ride’ is very important. Most importantly, have fun and enjoy what you’re doing."

The most gratifying achievement from his candidature was the birth of his daughter, Charlotte, born when Ken was in the second year of study. He wishes to see his kids grow up happily every day.

Ken was conferred a PhD in January 2018 and is hoping for Early Career Fellowship in the near future. Ken has started his postdoctoral fellowship with Professor Danny Liew in health economics.

“I’m committed to staying in the field of cardiovascular science, and looking at application of innovative solutions in clinical and public health.”
## SHORT COURSES

In 2017 the School ran 44 Short courses showcasing the expertise of a very diverse set of researchers. The short course program focuses on intensive learning for professional development purposes. Course delivery ranges from self-paced, didactic, hands-on and online.

Enquiries regarding the Short course program should be directed to the SPHPM Professional Education Program manager: suzy.guiliano@monash.edu

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<table>
<thead>
<tr>
<th>Course Title and Convenor</th>
<th>Description</th>
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</table>
| **Monash Advanced Course in Aviation Medicine**  
A/Prof David Newman  
29 January – 9 February 2017 | This two-week full-time course provides participants with an advanced level of aviation medicine knowledge. The course is run in conjunction with Qatar Airways, and is ideal preparation for an aviation medicine career requiring an advanced level of knowledge. |
| **Australian Certificate of Civil Aviation Medicine (ACCAM)**  
A/Prof David Newman  
3 July – 15 July 2017; 14 – 25 August 2017; 13 – 24 November 2017 | This two-week course qualifies medical practitioners to register with the Civil Aviation Safety Authority as Designated Aviation Medical Examiners (DAMEs). |
| **Biostatistics for Public Health and Clinical Researchers**  
Dr Baki Billah. 16, 17 and 19 May 2017; 9, 10 and 12 October 2017 | This course allows students to perform statistical analyses, report their findings and interpret results. |
| **Ethics and Good Research Training**  
Ms Marina Skiba  
24 March 2017; 11 September 2017 | This short course provides course participants with an understanding of what constitutes good practice in research and what factors make research ethical or unethical. |
| **Good Clinical Practice**  
Ms Marina Skiba, Ms Louise Shiel, Mr Peter Midolo, Ms Cheryl-Ann Hawkins  
1 February 2017; 22 February 2017; 27 February 2017; 16 March 2017; 28 March 2017; 5 April 2017; 19 April 2017; 9 May 2017; 12 May 2017; 24 May 2017; 31 May 2017; 5 June 2017; 13 June 2017; 14 June 2017; 17 July 2017; 25 July 2017; 16 August 2017; 11 September 2017; 13 September 2017; 25 October 2017 | This TransCelerate-accredited GCP short course provides participants with an understanding of the requirement of ICH GCP and an awareness of how to conduct a study in accordance with ICH GCP. Suitable training in this area is expected by pharmaceutical companies that initiate commercially sponsored clinical trials, and this course is recognised as acceptable for this purpose. |
| **Health Promotion**  
Ms Micaela Drieberg, Ms Sarah Carmody, Ms Joanna Schwarzman, A/Prof Ben Smith  
17 – 20 July 2018 | This course aims to provide participants with a sound understanding of health promotion principles and practice and to build skills in health promotion planning, implementation and evaluation processes which are underpinned by best practice. |
| **Introduction to Data Analysis: SPSS without tears**  
Dr Baki Billah  
16 – 17 October 2017 | This short course involves students using SPSS for data analysis. Students have the opportunity to analyse real life medical data and supports for results discussion and conclusion. |
| **Introduction to Stata**  
Ms Parn Simpson  
31 March 2017; 11 August 2017 | This course provides an introduction to the statistical analysis software program, Stata Release 13 covering basic data management issues and popular epidemiological analyses. |
| **Introduction to Systematic Reviews of Health Interventions**  
Mr Steve McDonald  
3 – 4 August 2017 | Participants in this course receive a detailed introduction to the methods involved in conducting a systematic review of an intervention, enabling them to plan and commence a review of their own. |
| **Medicine and the Media**  
Dr Suzanne Mahady. 25 November 2017 | This course is designed to train academics and clinicians in media engagement skills in order to take advantage of these opportunities. |
| **Monash Certificate in Clinical Occupational Medicine**  
Dr David Fish  
19 – 23 June 2017 | A short course designed for occupational medicine trainees and GPs who assess patients with work-related problems. The course objectives include (but are not limited to) providing the knowledge and skills necessary to diagnose occupational diseases, perform medical assessments, and write a medicolegal report. |
| **Monash Certificate in Environmental Medicine**  
Prof Malcolm Sim  
10 – 13 July 2017 | The Monash Certificate in Environmental Medicine is a short course designed to strengthen the ability of doctors and other health professionals to address health relevant environmental issues related to industrial activity. |
| **Optimising Exercise Programs for Older People to Improve Balance and Prevent Falls**  
Dr Sze-Ee Soh  
19 June 2017 | Engaging and sustaining older people’s participation in falls prevention exercise programs is a continual challenge for health and fitness professionals. This course has been developed by leading falls prevention researchers and health professionals to address such challenges. |
| **Overview and Update in Travel Medicine**  
Prof Karin Leder  
10 – 11 August 2017 | This course provides practical guidance on management of travellers before and after travel, with a focus on pre-travel vaccines, management of malaria chemoprophylaxis, and other common travel-associated health issues. |
| **Post-Mortem CT interpretation**  
25 – 28 July | This intensive short course is designed for forensic pathologists (incl. trainees) and radiologists (incl. trainees) with an interest in forensic imaging, as well as radiographers and general pathologists. The course consists of a preliminary half-day introduction to CT imaging for pathologists, and forensic pathology for radiologists. |
| **Qualitative Research Methods**  
Dr Darshee Ayton. 31 May, 1 – 2 June 2017; 4 – 6 December 2017 | The aim of this short course is to introduce participants to the theories, concepts and practice of qualitative research. |
| **Refresher ICH Good Clinical Practice**  
Ms Marina Skiba  
14 February 2017; 12 April 2017; 24 May 2017 | This course is available to staff who have previously completed GCP training and can provide evidence of course completion within the last 3 years. |
| **Survival Analysis with Stata**  
Prof Rory Wolfe. 16 August 2017 | This course provides a thorough introduction to basic survival analysis concepts and methods, and to cover selected advanced issues. |
Ms Deborah Coad
Ms Fiona Corrigan
Dr Veronica Collins BSc, GDipEd, MSc(Epi), PhD
Mr Christopher Compt
Mr Declan Conoley
Ms Renee Connolly
Ms Susan Conway
Mr Jake Cornell
Ms Georgia Cotter
Dr Jennifer Cotterell BSc(Bio), DDS, FRACGP, FRCPA
Ms Sussan Conway
Mr Jake Cornell
Ms Georgina Cotter
Dr Jenifer Cottrell BSc, DDS, ADC
Mrs Narelle Cottrell
Dr Susan Cox
Dr Sue Crebbin
Dr Gemma Crighton BHB, MBChB, FRACP, FRCPA
Ms Sue Critchley
Ms Marita Dalton
GDip(Epidemiology), GDip(Information Technology)
Ms Lucy Davenport
Mr Pari D’Cruz
Ms Cassi de Lacy-Vawdon BHSc(Hons)
Ms Stephanie Deanugo
Ms Amber Degelia BSc(Hons), CCRC
Mr Anthony Del Monaco BSc(Hons), GDipComp, MPH(Epi & Biostats)
Dr Lisa Demos BPharm, GDipHospPharm, PhD
Mr Roger Dench BSc, Dip Ed, MBA
Ms Lydia Di Stefano
Ms Christina Dimitriadis BAppSci
Ms Natasha Dodge BSc(Hons), MPH
Ms Kirby Donaldson
Ms Clare Dooley
Mr Brendan Dowling
Ms Linda Downes
Mrs Janine Doyle BNurs, RN
Ms Megan Dumas BSc, Grad Dip Ed
Ms Jodi Dumbrell
Ms Jenny Duncan
Mr Georges Dwyer
Mr Matthew Dwyer
Ms Stephanie Dyball
Ms Elizabeth Early
Ms Claire Easto
Dr Glenn Eastwood RN, BN(Hons), GDip(Crit Care), PhD
Ms Laura Edmonds
Mrs Monika Edwards
Ms Madeleine Enright
Ms Sharon Erb BSc(Hons), MSc(Clinical Research)
Dr Michael Esler BSc(Hons), PhD
Ms Melanie Evans BSc, PostGradDipPsych, MPH
Ms Eloise Faichney
Ms Zainab Faik
Ms Jessica Fairley
Ms Jeena Fernando
Ms Noha Ferrah
Dr Rhiannon Fisher
Ms Erica Flint
Ms Terry Flint
Ms Jane Ford
Ms Kathy Fots
Ms Vanessa Fox BSc(Hons)
Ms Louise Francis BHSc(Hons)
Ms Samantha Francis-Pester
Ms Victoria Gabriel
Ms Kirsten Gainsford
Ms Madeleine Gardam BA, GDipPsych
Dr Maya George PhD
Ms Dimitra Georgopoulos
Mr Samuel Gifford
Mr Stephen Glanville
Ms Jennifer Gong BBiomedSci(Hons)
Ms Maddy Goodman
Ms Natalie Gordon
Ms Karen Goulding BSc(Hons), MPH
Ms Elysia Greenhill BHSc
Ms Theresa Grice
Dr Rosa Gualano BSc(Hons), PhD
Mr Rhys Gunn
Mr Jack Hall
Ms Nilab Haridi
Dr Tilahun Haregu
Ms Melissa Hart RN, Orth Cert, B Ed
Ms Cindy Hasthorpe
Ms Amy Hatfield
Ms Heild Hayden
Ms Allison Hayes
Ms Pamela Hayes BSc
Ms Helen Hayson BAppSc(Medical Laboratory Science), GCert(Transfusion Practice), DipLeadershipMgmt
Ms Sally Haywood
Mr Adrian Heal
Ms Aileen Heal
Ms Audrey Hegarty
Dr George Heriot MBBS
Ms Natalie Heriot BHS(Sc(Hons))
Ms Alison Hodge
Ms Jennifer Holland BSpPath, MHlthInfoMgmt
Ms Ali Holt
Ms Michelle Hooy
Ms Masuma Hoque
Ms Gina Horn APD, MDiet, BENS
Ms Nicola Horvath
Ms Bethany Howard
Ms Belinda Howe RN, CCN, BAppSci(Nursing), MPH
Ms Tracey Howell
Mr Alex Hu
Dr Yue (Luna) Hua
Ms Li Huang
Ms Amanda Hulley
Ms Kim Huynh
Dr Arun Islam PhD
Ms Lucy Irvine
Dr Rabib Islam PhD
Ms Kim Jachino
Ms Briony Jain BA(Hons)
Ms Amanda Johnson BEcon, BAppSci, GiS
Ms Joseph Johnson
Ms Maggie Johnson
Dr Renea Johnston PhD, BSc(Hons)
Ms Sam Johnstone
Dr Eveline Jona
Ms Seba Joseph
Ms Ashwini Kannan BBiomedSci(Hons)
Ms Ella Kee
Ms Gordana Kel BSc, CertPathColl(Phlebotomy)
Dr Sarah Kelly MB BCh, BAO(Hons)
Mr Jamie Kemp
Ms Briohny Kennedy
Ms Nadia Khan BBiomedSci(Hons)
Ms Ying Khu
Mrs Karen Kilpatrick
DipAppSc(Medical Radiography), GDip(Ultrasoundography), GCert(Clinical Instruction), GDip(Ed & Training)
Mrs Sharon King
Ms Ruth Klein BHS(Sc(Hons)), BAppSci(Health Promotion)
Ms Sam Kleverlaan
Ms Sharon Klim BN
Ms Aneta Kotevski
Dr Samantha Kozica-Olenski PhD
Ms Ashleigh Kumar BBiomedSci
Dr Dhanya Kumar BBiomedEng, PhD
Mrs Catherine Kurenda
Mr Chun Sang (CS) Kwan BBiomedSciPharmSc
Ms Rhoda Lai BA(Hons)
Mr Les Lambert
Ms Adina Lang BHSc(Sc(BA), BHSc(Sc(Hons))
Dr Justin Lang
Ms Hermine Lee
Ms Yael Lefkovits
Ms Y-Anh Le Pham
Ms Effi Liden BSc, MA(Psych)
Ms Shauna Lim
Ms Natalie Linke BN, GCert(IntCareNurs)
Ms Lorraine Little RN, GCert(IntensiveCare), BHSc(Nursing), MBoethics
Ms Hazel Loo
Mr Anthony Lopez
Dr Janaka Lovell
Ms Wendy Lunghusen
Mr Henry Luong
Mr Michael Mackie
Mr Patrick Maclean
Ms Erin Magee
Ms Emily Maguire
Ms Annie Makar
Ms Katherine Mallia
Mr Rain Marcus
Mrs Nicole Marrow
Ms Lucy Marsh
Ms Kezia Matheson
Prof Robyn Guymer MBBS, PhD, FRANZCO
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Prof Helen Keleher PhD(LTU), MA, BA, RN, FPHAA
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Prof lan Kirkpatrick
Prof Kate Leslie AO MBBS, MD, M Ep, MHealthSciMt, FANZCA, FAcCD
Prof Ronan Lyons
Prof Graeme Maguire PhD, FRACP, MPH&M, BMedSci(Hon), MBBS(Hon)
Prof Ajay Mahal
Prof Jennifer Martin
Prof Thomas H Marwick MBBS(Hons), PhD, MPh, FAHMS, FRACP, FACC, FESC
Prof Brendan Murphy
Prof John Myburgh MBCh, PhD, DA(AUK), FFARCSI, FANZCA, FCICM
Prof Mark Nelson MBBS(Hons), PhD, DA(SA), FANZCA, FJFICM
Prof John Myburgh MBCh, PhD, DA(AUK), FFARCSI, FANZCA, FCICM
Prof Robert Power BSc(Econ), PhD, PhD, MEpi
Prof Julie Pasco BSc(Hons), DipEd, PhD, Mepi
Prof Robert Power BSc(Econ), PhD, PhD
Prof Michael Reade MBBS, BSc, MPH, DPhil, DMCCM, DMCCRESc, PGCert AME, AFRAcCA, FANZCA, FCICM
Prof John Reeder
Prof Andre M N Renzaho PhD, MPH, MPH, MA
Prof David Roder
Prof Giuseppe Rosano
Prof Ian Rouse PhD, GDipHistSc, BSc(Hons), Dip MPM, Dip MHRM, Dip CM, Dip CM, ExtDiSc, FinX5, CSSC, Cert IV T&I
Prof Nobhajit Roy MBBS, MS, MPH
Prof Leonie Segelid
Prof lan Seppelt MBBS, BMedSci, FANZCA, FCICM
Prof Jonathan Shaw MD, MRCP,
Dr Julie Lustig MBBS, FRACP
Dr Elizabeth Manning
Dr Christopher Mason
Dr Steve McGloghlin BSc(Hons), BMed, FICIM, MPH&TM, PGDipEcho
Ms Yasmin Mohamed
Dr Vinodh Nanjaya MBBS, MD, EDIC, FICIM
Dr Christ Nickson
Dr Paul Nixon
Mrs Adele O’Hehir
Dr Wee Ong BMedSc, MBBS, MPhil
Dr Judit Orosz
Dr Hanmi Pan
Dr Ruth Pearson
Dr Janika Petaravic
Dr Eamon Raith
Dr Matthew Reeve
Dr Alexander Richardson
Dr Lloyd Roberts
Dr Essa Saeedi
Dr Asim Shah MBChB, MSc, FACEM, FICIM, FCEM
Dr Lyndall Smythe
Dr Jessica Wang
Dr David Weissman
Ms Anna Wilkinson
Dr Mary Wyatt MBBS, DipObstetrics, FRACGP, GDipOccHlth, FAFOM, MPH
Dr Greg Young

Adjunct Research Fellows
Dr Muhammad Akram PhD, MPhil, MSc, BSc(Hons)
Dr Adam Ameur
Dr Esther Apos BSc(Hons), PhD
Dr Roksana Armani BBIomedSc, MSc, PhD
Dr Ar Kar Aung
Dr Kathryn Backholer BSc(Hons), PhD
Dr Umberto (Bert) Botta MBBS, MBA, GDOHSM, FAFOEM, FCHSM, MRACGP
Dr Marjie Bosch
Dr Allison Bourne
Dr Melinda Carrington BA, PG DipPsych, PhD
Dr Rosalind Case PhD, PGDipPsych(Clin), MScSc, BScSc(Hons)
Mr Brad Crammond BA(Hons), LLB(Hons), LLM
Dr Sheila Cyril MBBS, MPhil
Dr Janet Davey MSc, PhD(Med)
Ms Miranda Davies
Dr Sonia Davison PhD, MBBS, FRACP
Ms Kylie Dyson BSc(Paramed), BSc(Hons), PhD
Ms Carol El-Hayek BSc(Biotechnology), GDipGenericCounselling, MEd
Dr Arshi Farooqui
Dr Juana Fernando PhD, FACH(AM), PGDipHPE, MA, GCertBusSys, BA
Dr Andrew Flint MBBS, BEng(Hons), BEcon
Dr Pamela Fradkin MBBS, DipMicro
Dr Trent Hartshorne
Dr Erin Hoare BA, BPsych(Hons), PhD
Dr Tomoko Honda BA, MPhil, M(Women’s Health), PhD
Dr Danielle Horyniak BBIomedSc(Hons), PhD
Dr Aamira Huq
Dr Liane Ioannou PhD, BSc(Hons)
Dr Narges Khanjani MD, PhD
Ms Lara Kimmel
Dr Agnieszka Kosny BA, MA, GDipCommHlth, PhD
Dr Dipak Kotecha MBChB, MRCP
Dr Hang Li PhD, MSPH, BPH
Ms Anne Mak BSc, GDipPharm
Dr Bridgette Mcnamara
Dr lan Miller MBBS, FAFOm, Cert DHM
Dr Margarita Moreno-Betancur BSc, MSc, PhD
Mr Christopher Neil Morrison
Dr Adrienne O’Neel BA(Hons), PhD
Mr Eldho Paul BSc, MSc
Ms Alisa Edith Pedrana PhD, MPH, BBIomedSc(Hons)
A/Prof Vile Pettla MD, PhD
Dr Brendan Quinn
Dr Mary Redmayne BA, DipTeach, Dip EnvStud, PhD
Dr Bridget Regan PhD
Ms Elissa Robins BNutrDietet, APD, AN
Dr Julian Sacre
Dr Tamsin Santos
Dr Nick Scott
Dr Diogenes Seraphim Ferreira MD, PhD
Ms Lisa Shaw
Ms Carolyn Staines
Dr Claire Stubber BA(Hons), PhD
Dr Shoshana Sztal-Mazer
Ms Kylie Titchener
Ms Shirley Vallance CCC, RN, MClinResMeth
Dr Katie Walker
Ms Leonie Weisbrodt GCertEd, MN
Ms Tricia Williams RGN, BNP(int Care)
Ms Judy Willis DCR, DMU, ASAR

Adjunct Research Associates
Dr James Brennan
Dr Louise Brightman
Dr Brandon carp MBBS(Hons)
Mr Matthew Di Rago BPPharmSc(Hons)
Dr Freya Fowkes DPhiph(Malaria Epidemiology), MSc(Epidemiology), BSc(Parasitology)(Hons)
Ms Claire Galbraith
Dr Pragya Gartoula
Dr Sumbul Ishtiaq MBBS, MHSM
Ms Marsha Ivey BSc(Maths), MSc(Stats), MSc(Pub Hlth)
Ms Rebecca Jessup
Dr Sonia Kaushik PhD
Mrs Yeasmin Khandakar
Mr Evan Leckenby
Ms Janet Nezon
Dr Luke Rodda
Dr Michelle Brear
Dr Bronwyn Brown
Dr Helen Brown
Ms Louise Browne
Dr Lauren Bruce
Ms Sara Calthorpe
Ms Maree Cameron
Ms Jayne Campbell
Ms Janelle Carrigan
Ms Annie Carter
Ms Ann Casserley
Ms Isabelle Catrice
Mrs Rebecca Chandra
Ms Shaila Chavan
Dr Ivy Cheng
Dr Leonora Chiam
Jian Chin
Dr Chia Chong
Ms Jo-Ann Chow
Ms Hoi Kwan (Tammy) Chung
Ms Alexandra Clark
Ms Hazel Clothier

Mr Mohammed Alharbi
Ms Rose Ansell
A/Prof Glenn Arendts
Ms Rebecca Atkins
Mr David Atwood
Dr Peter Azzopardi
Dr Cate Bailey
Ms Sarah Bailey
Dr Chelsea Baird
Dr Prateek Bandopadhyay
Mrs Julie Battistello
Ms Jane Bell
Ms Emma Beilenger
Mr Idan Ben-Barak
Ms Ingrid Benge
Dr Ross Bicknell
Ms Amanda Binny
Ms Keryn Bird
Mr Oliver Black
Ms Claire Blewitt
Dr Piers Blombery
Dr Omar Bouamra
Ms Gabrielle Bourke
Mr Jarrod Boxall
Dr David Bradt
Dr Michelle Brear
Dr Bronwyn Brown
Dr Helen Brown
Ms Louise Browne
Dr Lauren Bruce
Ms Sara Calthorpe
Ms Maree Cameron
Ms Jayne Campbell
Ms Janelle Carrigan
Ms Annie Carter
Ms Ann Casserley
Ms Isabelle Catrice
Mrs Rebecca Chandra
Ms Shaila Chavan
Dr Ivy Cheng
Dr Leonora Chiam
Jian Chin
Dr Chia Chong
Ms Jo-Ann Chow
Ms Hoi Kwan (Tammy) Chung
Ms Alexandra Clark
Ms Hazel Clothier
STAFF

Bodrun Siddiquea
Dr David Sime
Ms Kathryn Simons
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Ms Charlotte Stevens
Dr William Stobie
Prof Nigel Stocks
Ms Alice Stuart
Mr Renas Tahiri
Ms Milena Talikowski
Dr Jun Tay
Dr Peter Taylor
Ms Tracy Taylor
Dr Andrew Teichtahl
Dr Damien Thamaratnam
Nethmini Thenuwara
Dr Kurian Thomas
Dr Ralph Tramm
Dr Gina Tuch
Dr Mya Tun
Ms Lauri Unkovich
Ms Mairje van Iwaarden
Dr Allison van Lint
Ms Jessica Van Son
Ms Numa Vera
Ms Sandra Vilella
Ms Karen Vick
Mr Simon von Salderen
Dr Phi Vu
Dr Heather Waddy
Ms Anna Waldron
Mr Scott Walker
Ms Ling Wang
Dr Yishen Wang
Ms Lauren Waycott
Dr Tharuja Welgama Pathranage
Ms Emma West
Ms Shaday Wheatley
Mrs Lynette White
Dr Champika Wickramasinghe
Dr Pushpika Namal Wijelake
Mr Chatura Wijetunga
Ms Lucy Wilby
Dr Teresa Williams
Dr Chamalile Wimalagunasekera
Ms Tricia Wong
Ms Julie Wood
Dr Roisin Worsley
Ms Christina Wyatt
Ms Gillian Yap
Mrs Rachael Yates
Ms Simone Yendle

Graduate Research Students (Doctoral and Masters)

Dr Sally Abell
Dr Nikki Adler
Ms Afsana Afroz
Ms Marilese Alexander
Mr Mohammed Aramadlan
Mrs Bothaina Al Yousef
Dr Frances Ampt
Ms Laura Anderson
Ms Emily Andrew
Ms Thathya Venu Aryanthe
Ms Sarah Arnup
Ms Sarah Ashton
Ms Mahnaz Bahri Khomami
Mr Dimitri Batras
Mr Estifanos Baye
Mr Chhavi Raj Bhatt
Dr Sinjini Biswas
Ms Rebecca Blackmore
Ms Miranda Blake
Dr Irena Bobevski
Ms Tara Boelsen-Robinson
Ms Molly Bond
Dr Sharmayne Brady
Dr Matthew Brain
Ms Michelle Brear
Mr Sam Britteman
Mr Christopher Brzozek
Dr Aidan Burrell
Ms Oyunchimeg Buyadaa
Ms Sarah Carmody
Dr Susan Chang
Mr Gongbo Chen
Dr Oyun Chimeeddamba
Dr Georgiana Chin
Dr Wei-Ling Chiu
Dr Louis Chou
Mrs Alexandra Chung
Dr Tim Coulson
Dr Oliver Daly
Ms Angela Davis
Dr Sara de Menezes
Mr Michael Di Donato
Dr Gabrielle Diplock
Dr Otgontuya Dugee
Ms Rosie Dwyer
Ms Kylie Dyson
Ms Kathryn Eastwood
Ms Alexandra Ehrenberg
Ms Caitlin Farmer
Mr Richard Fernandez
Dr Andrew Flint
Ms Faye Forbes
Ms Louise Francis
Mr Peter Fransquet
Ms Adelle Gadowski
Ms Daye Gang
Dr Dashiel Gantner
Ms Emma Gearon
Dr Neil Glassford
Ms Rebecca Goldstein
Ms Stella Goutzamanis
Mrs Thara Govindaraju
Ms Kelsey Grantham
Mrs Sabrina Gupta
Ms Nyssa Hadgraft
Mr Berhan Halle
Dr Rowena Hare
A/Prof Claire Harris
Mr Brian Haskins
Dr George Heriot
Ms Christina Heris
Ms Penelope Hill
Dr Dewan Md Emdadul Hoque
Mr Molla Huq
Mrs Sara Ivory
Ms Kim Jachno

Ms Sarah Johnson
Ms Amanda Johnson
Dr Nadira Kaloy
Dr Stobdan Kalon
Dr Harish Kaira
Dr Nazmul Karim
Ms Valerie Kay
Ms Jemima Keeves
Mrs Nicole Kellow
Ms Sherrie Kelly
Ms Briohny Kennedy
Mr Dev Kevat
Ms Goma Khatri
Mr Philip Kiley
Ms Naomi Komadina
Mr Digsu Koye
Ms Adina Lang
Ms (Thi Hong) Minh Le
Dr Joy Lee
Dr Yuan Zhi Lim
Dr Jessica Lockery
Mrs Carole Lunney
Mrs Ruth Mackenzie-Stewart
Ms Ruth Magaye
Ms Ashika Maharaj
Ms Alison Markwick
Ms Julie Martin
Dr Tatfeyi Marukutira
Mr Steve McDonald
Mr Peter McGlynn
Dr Sarah L McGuinness
Ms Judith Mchines
Ms Tegwyn McManamy
Ms Angela Melder
Mr Yayeirah Melsaw
Dr Kirthi Menon
Mr Yonatan Moges Mesfin
Mr Benedict Morgan
Mrs Natashaa Morris (Frankin)
Ms Rebecca Morris
Ms Aya Mousa
Ms Hayley Mowat
Ms Briny Murphy
Dr Nega Naderpoor
Ms Nusrat Nainin
Ms Dhanya Malandkar Nambiar
Dr Natalie Nanayakkara

Ms Maggie Johnson
Ms Amanda Johnson
Dr Nadira Kaloy
Dr Stobdan Kalon
Dr Harish Kaira
Dr Nazmul Karim
Ms Valerie Kay
Ms Jemima Keeves
Mrs Nicole Kellow
Ms Sherrie Kelly
Ms Briohny Kennedy
Mr Dev Kevat
Ms Goma Khatri
Mr Philip Kiley
Ms Naomi Komadina
Mr Digsu Koye
Ms Adina Lang
Ms (Thi Hong) Minh Le
Dr Joy Lee
Dr Yuan Zhi Lim
Dr Jessica Lockery
Mrs Carole Lunney
Mrs Ruth Mackenzie-Stewart
Ms Ruth Magaye
Ms Ashika Maharaj
Ms Alison Markwick
Ms Julie Martin
Dr Tatfeyi Marukutira
Mr Steve McDonald
Mr Peter McGlynn
Dr Sarah L McGuinness
Ms Judith Mchines
Ms Tegwyn McManamy
Ms Angela Melder
Mr Yayeirah Melsaw
Dr Kirthi Menon
Mr Yonatan Moges Mesfin
Mr Benedict Morgan
Mrs Natashaa Morris (Frankin)
Ms Rebecca Morris
Ms Aya Mousa
Ms Hayley Mowat
Ms Briny Murphy
Dr Nega Naderpoor
Ms Nusrat Nainin
Ms Dhanya Malandkar Nambiar
Dr Natalie Nanayakkara
Mr Ziad (Zee) Nehme
Ms Winda Ng
Mrs Trang Nguyen
Ms Tu Quan Nguyen
Ms Anh (Anna) Nguyen Quyen Nguyen
Ms Bridgid O’Brien
Mr Tom O’Dwyer
Mr Richard Ofon-Asonso
Ms Beck O’Hara
Mr Daniel O’Keefe
Dr Neil Orford
Mr Ebenezer Owusu-Addo
Mr Cameron Palmer
Ms Catriona Parker
Dr Sameer A Pathan
Ms Michelle Paton
Mrs Susan Paudel Subedi
Mr Eldho Paul
Mr Anthony Pease
Mr Waruna Periris
Dr Minh Pham
Dr Georgina Phillips
Ms Stephanie Pirotta
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Dr Liz Potter
Ms Gemma Pound
Dr Satish Ramkumar
Mr Tom Ranger
Ms Emma Ridley
Dr Farwa Rizvi
Mr Andre Rodrigues
Ms Veronique Roussy
Ms Samantha Rowbotham
Ms Stacey Rowe
Ms Anne Russell
Ms Alana Russo
Ms Kathleen Ryan
Ms Stella Samoborec
Dr Reena Sarkar
Ms Feby Savira
Ms Joanna Schwarzman
Mr Rahul Sharma
Dr Soulmaz Shoraka
Mrs Marina Skiba
Mr Neal Smith
Ms Catherine Smith
Mr Nathan Stam
Ms Karin Stanzel
Ms Ashleigh Stewart
Ms Shu Su
Ms Maryam Tabesh
Mr Benjamin Talbot
Ms Chau (Jillian) Thien Tay
Ms Eleanor Thong
Ms Claire Tipping
Dr Ravindranath Tiruvoipati
Mr Anthony Tsay
Mr Fraser Tull
Mr Simon Turner
Ms Caroline Van Gervert
Ms Vanessa Veronese
Ms Melanie Vilani
Dr Amanda Wade
Ms Angela Ching Shan Wan
Dr Stephanie Ward
Mr Jason Watterson
Dr Edmund Wee
Ms Suzanne Willey
Mr Yohanes Windi
Ms Rebecca Winter
Ms Marta Woolford
Ms Rosin Worsley
Mrs Ladan Yeganeh
Ms Kate Young
Dr Berihun Zeleke
Mr Qi Zhao
Mr Edward Zimbudzi

Honours Students
Bachelor of Biomedical Sciences (Honours) Students
Kumundika Atukorala
Ashwini Kannan
Jia Wei (Harvey) Koh
Christopher Lui
Kirsten Roode
Ellie Tsiamis
William Veitch
Abbas Yaqobi
Zachary Fitzgerald
Leo Lambers
Julia Summers
Bachelor of Health Sciences (Honours) Students
Carla Edgley
Tasnia Rafi
Nirmal Dayaratna
Benjamin Reed
Hermine Lee

Bachelor of Medical Sciences (Honours) Students
Anastasia Asmoro
Galuh Ayu Aziza
Enzo Bin Sapuandi
Eleanor Danek
Grace Suriadi Halim
Susanne Kitching
Salsabil Bliqis Maulida
Toby Fraser O’Brien
Vidura Thejana Perera
Charlotte Russo
Gowri Shivabanesan
Ashleigh Spittle
Myuran Sritharan

Claire Stark
Aisha Roekman
Fadil Muharrra

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