
MONASH University
MONASH
PUBLIC HEALTH
AND PREVENTIVE
MEDICINE
AUSTRALIA'S LARGEST
SCHOOL OF
PUBLIC HEALTH
monash.edu/medicine/sphpm

PUBLIC HEALTH
AND PREVENTIVE MEDICINE

WE TACKLE BIG HEALTH QUESTIONS BY SYSTEMATICALLY GATHERING AND EXPLORING BIG HEALTH DATA, PRODUCING RESULTS THAT BENEFIT MILLIONS AROUND THE WORLD.

WHAT WE DO

Public health takes a macro view of health, exploring it in the context of communities, cities and countries. We search for patterns in massive datasets that suggest ways to improve treatment, and more importantly prevention, of disease and ill-health.

From preparing for Ebola outbreaks, to mitigating the effects of diabetes and heart disease; from providing clean water and sanitation in Fiji and Indonesia, to improving fertility preservation services for Australians with cancer; our research portfolio is diverse and anchored in real-world problems.

PAVING THE WAY FOR BETTER HEALTHCARE THROUGH RESEARCH

We're the largest research-based School in the Monash Faculty of Medicine, Nursing and Health Sciences. We've successfully delivered the ASPREE mega-trial, the biggest clinical trial in Australia and an invaluable source of health research data for years to come.

We house numerous NHMRC-funded Centres of Research Excellence and are Australia's largest manager of clinical quality registries. Cochrane Australia resides with us, and is dedicated to producing the highest quality healthcare systematic reviews.

Many of our world-renowned researchers maintain clinical positions at the adjacent Alfred Hospital. This prestigious and busy hospital facilitates study recruitment and expedites the translation of our findings into real-world benefits for patients.

PRODUCING GLOBAL PUBLIC HEALTH LEADERS

We boast a formidable array of outstanding alumni whose achievements include demonstrating the link between iodine and thyroid disease, revolutionising the treatment of heart failure with beta-blockers, and establishing the link between climate change and disease.

Many of our researchers pass their skills and knowledge down to the next promising generation of public health professionals enrolled in our suite of educational courses. Our undergraduate offerings lay the foundations for a career in public health; our portfolio of postgraduate degrees and professional education short courses build specific skills in research, management and public health, taking into account the needs of busy working professionals.

monash.edu/medicine/sphpm

1,050+

STUDENTS ENROLLED ACROSS UNDERGRADUATE, POSTGRADUATE AND GRADUATE RESEARCH

1,200+

STAFF EMPLOYED

$38m

AVERAGE ANNUAL RESEARCH INCOME (2013-2017)

783

AVERAGE NUMBER OF PUBLICATIONS PER YEAR (2013-2017)

#46

GLOBALLY IN PRECLINICAL, CLINICAL AND HEALTH SCIENCES

(Times Higher Education, World University Rankings 2018)

THE ALFRED **RESEARCH ALLIANCE**

WE'RE LOCATED AT THE ALFRED RESEARCH ALLIANCE, A VIBRANT HUB OF RESEARCH, EDUCATION AND CLINICAL HEALTHCARE IN MELBOURNE. OUR MEMBERSHIP CONNECTS US WITH PRESTIGIOUS ORGANISATIONS THAT AMPLIFY OUR CAPACITY IN RESEARCH AND EDUCATION.

More than a loose affiliation, the word 'alliance' reflects the close collaborative relationships intrinsic to the campus. The research strengths unique to Alfred Research Alliance members are largely complementary, providing the freedom to work closely and cross-pollinate ideas.

The Alfred Hospital unites the members, forming an important real-world teaching and research platform that facilitates study recruitment and provides rich healthcare data. The hospital-centred approach links our research directly to clinical problems, keeping us people-focused and outcome-driven.

Many of our researchers and lecturers hold clinical positions at the Alfred, ensuring their perspectives and skills are current and they understand the needs of clinical professionals.

The convenient location is just outside the city centre, and lies along one of Melbourne's best-serviced transport routes.

ALFRED RESEARCH ALLIANCE MEMBERS:

AlfredHealth

Baker Heart & Diabetes Institute

Burnet Institute
Medical Research. Practical Action.

Deakin University

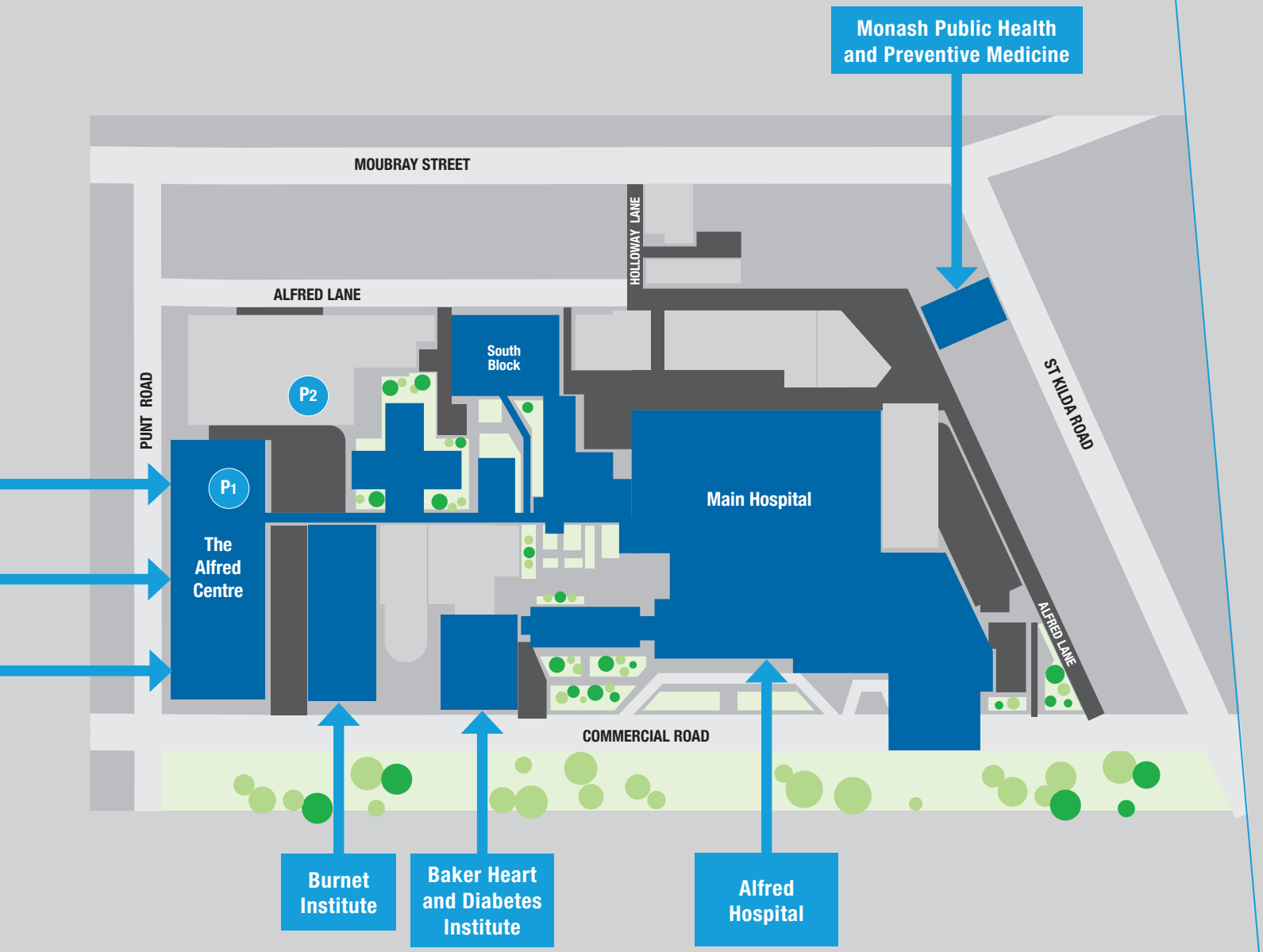
LA TROBE UNIVERSITY

Monash University

Monash Central Clinical School

La Trobe University

ALFRED CAMPUS



8,000+

STAFF ON SITE

1,500+

HEALTH RESEARCHERS

1,100+

POSTGRADUATE STUDENTS

NURTURING THE NEXT GENERATION **OF PUBLIC HEALTH PROFESSIONALS**

OUR UNDERGRADUATE EDUCATION PROGRAM IS MANAGED BY A KNOWLEDGEABLE AND PASSIONATE TEAM, DEDICATED TO PROVIDING PRACTICAL PUBLIC HEALTH KNOWLEDGE AND SKILLS IN AN ENGAGING FORMAT.

We coordinate health sciences undergraduate courses, and teach public health units into other Monash degrees, including the Bachelor of Biomedical Science degree. The newly refurbished Caulfield campus and Teaching and Learning building at Clayton provide our students with state-of-the-art teaching technologies and well-planned spaces that cater for individual study and reflection, or group work.

Our degrees are managed and taught by dynamic academics with a flair and passion for passing on knowledge. Our work-ready graduates walk away with the scientific knowledge, technical skills, confidence and communications nous needed to forge a successful career in public health.

We partner with public health agencies to provide students with real-world clinical and research placements, giving them a chance to test the waters and network with potential employers. Our Summer Vacation Scholars program provides promising young students a chance to work on established research projects.

monash.edu/medicine/sphpm/teaching/undergraduate

- HEALTH AND DISEASE BIOLOGY
- THE HEALTHCARE SYSTEM
- COMMUNICATION
- GLOBAL HEALTH
- RESEARCH METHODOLOGY
- HEALTH PROMOTION
- EPIDEMIOLOGY AND STATISTICS
- HEALTH LAW
- ETHICS
- HEALTHY POLICY AND PLANNING
- DATA MANAGEMENT

> 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 … working towards equity and social justice in healthcare."

MITCHELL BOWDEN
BACHELOR OF HEALTH SCIENCE
BACHELOR OF SOCIAL WORK
(GRADUATED 2013)

WE'RE ONE OF THE LARGEST AND MOST ESTABLISHED SCHOOLS OF PUBLIC HEALTH IN THE ASIA-PACIFIC REGION, HAVING OFFERED VICTORIA'S FIRST MASTER OF PUBLIC HEALTH PROGRAM. WE'VE BUILT ON THAT TO PROVIDE A DIVERSE PORTFOLIO OF MASTERS DEGREES, GRADUATE DIPLOMAS AND GRADUATE CERTIFICATES COVERING THE SPECTRUM OF PUBLIC HEALTH AND HEALTH SERVICE MANAGEMENT.

Our lecturers top their respective fields, and many bring clinical expertise with them into the teaching environment.

These flexible courses are designed for professionals juggling work and family life with study, and are taught largely online with conveniently planned block days. The block days provide a space to share experiences and allow innovative ideas to flourish, and for students to network with potential colleagues, collaborators and employers within the Alfred Research Alliance and beyond.

monash.edu/medicine/sphpm/teaching/postgraduate

POSTGRADUATE EDUCATION **FOR HEALTH PROFESSIONALS**

OUR GRADUATE RESEARCH STUDENTS ACCESS SOME OF THE WORLD'S BEST SUPERVISORS, AND A ROBUST AND EXPERIENCED MANAGEMENT PROGRAM THAT DELIVERS A NURTURING, COMFORTABLE AND RIGOROUS SPACE IN WHICH TO COMPLETE A PHD OR MPHIL.

This expertise drives our outstanding on-time submission rate for PhD candidates, which is one of the highest in the Faculty. We develop graduates who go on to excel here and around the world, contributing as researchers, clinician researchers and in policy development.

670+

POSTGRADUATE STUDENTS

180

GRADUATE RESEARCH STUDENTS

"Doing a PhD is a challenging experience that forces you to find your limits. Having an experienced team of supervisors and a supportive environment in which to study helped me excel, and produce research that has taken my career to another level."

DR INGRID HOPPER
HEAD OF THE AUSTRALIAN BREAST DEVICE REGISTRY

Image: Monash students in a flight simulator

JUST UNDER
1,000
REGISTRANTS ATTEND OUR SHORT COURSES ANNUALLY

PROFESSIONAL **DEVELOPMENT**

OUR EXTENSIVE PROFESSIONAL EDUCATION PROGRAM ALLOWS PUBLIC HEALTH PROFESSIONALS TO QUICKLY INTEGRATE NEW SKILLS AND REFRESH THEIR KNOWLEDGE IN A RANGE OF AREAS. THE COURSES BUILD CAPACITY ACROSS RESEARCH GOVERNANCE AND METHODOLOGY, BIOSTATISTICS, EPIDEMIOLOGY, EVIDENCE-BASED MEDICINE AND A WIDE RANGE OF PUBLIC HEALTH SPECIALTY AREAS.

Just under 1,000 registrants attend our short courses annually, covering topics including travel medicine, qualitative research, global health, health promotion, evidence based medicine, occupational and environmental medicine, and media skills for academics.

We are the leading provider of aviation medicine training in Australia, and have recently acquired a 737 flight simulator housed on-site. Our Aviation Medicine Unit, in conjunction with Qatar Airways, conducts courses in Doha and is a corporate member of the Aerospace Medical Association.

Our program is complemented by dozens of workshops, seminars and forums run independently by departments within the School. These cover topics as broad as protecting elders from abuse, supporting women in healthcare leadership and domain-specific forums.

monash.edu/medicine/sphpm/teaching/professional-education

THE ASPIRIN IN REDUCING EVENTS IN THE ELDERLY (ASPREE) STUDY IS AUSTRALIA'S LARGEST CLINICAL TRIAL.

DELIVERING AUSTRALIA'S **LARGEST CLINICAL TRIAL**

The landmark study showcases our capacity to manage large-scale clinical trials involving multiple community-based research sites across different countries. Our attractiveness to major international funders such as the NIH, and to international research collaborators, places us in prime position for further major studies.

PURSUING DEFINITIVE EVIDENCE

Aspirin is proven to save lives when taken by people after a cardiovascular event such as a heart attack. Despite a lack of evidence, many healthy older people take daily low-dose aspirin believing it will have similar protective effects on good health.

ASPREE tested this theory by randomising over 19,000 healthy Australians and Americans aged > 70 years into double-blinded intervention and control groups. Participants took a daily 100mg aspirin or matched placebo, and underwent regular physical and cognitive function assessments. 12,000+ also provided biospecimens for future analysis.

The results showed definitively that daily low-dose aspirin did not prolong disability-free life for healthy older adults.* This finding will have great impact, especially for the 10% of healthy older Australians, and 40% of healthy older Americans, consuming daily aspirin to preserve good health.

IMPORTANT NEWS NEEDS TO BE SHARED WIDELY

We're invested in sharing the results of our work with the community. Together with our US collaborators and the NIH, we generated widespread global coverage reaching millions of people, through the New York Times, CNN, Washington Post, BBC, Sky, Fairfax, ABC, News Corp, all Australian commercial TV networks and countless international outlets and social media.

The data collected by the trial and associated sub-studies will fuel research projects for years to come. Analysis of the ASPREE biobank samples will yield invaluable genetic insights into the ageing process, and all findings will guide healthcare best practice and funding allocation as our population ages.

*Results apply to healthy older people aged 70+, without a medical reason to take aspirin. Speak to your GP for individual advice about aspirin.

aspree.org

ASPREE BY NUMBERS:

17
ANCILLARY STUDIES

19,000+
PARTICIPANTS

2,000
GP ASSOCIATE INVESTIGATORS

12,000+
BIOBANK SAMPLES

> “Congratulations to the @ASPREE_aus investigators for taking on this important endeavor, not accepting dogma, and publication of the unexpected results with lucidity.”

ERIC TOPOL, MD
DEPARTMENT OF MOLECULAR MEDICINE

@ERICTOPOL

DRIVING EQUITABLE ACCESS **TO HIGH QUALITY HEALTHCARE**

WE ARE AUSTRALIA'S LARGEST MANAGER OF CLINICAL REGISTRIES. CLINICAL REGISTRIES ARE A GLOBALLY RECOGNISED, CREDIBLE AND EFFECTIVE WAY TO MONITOR QUALITY OF CLINICAL CARE BY LEVERAGING EXISTING HEALTH DATASETS. WE'VE ESTABLISHED OR MAINTAINED OVER 30 DOMESTIC REGISTRIES AND COLLABORATE WITH MULTIPLE INTERNATIONAL REGISTRIES.

Clinical registries systematically collect identical minimum data sets from hospitals or clinics across the country and overseas. We ensure consistency by using identical definitions and data collection procedures, as well as adhering to a rigorous governance and management structure.

UNRIVALLED IN-HOUSE EXPERTISE AND SUPPORT

Our dedicated Registry Science and Research Unit (RSRU) runs a number of registries directly. Others are maintained by teams with relevant clinical expertise, supported by the advice and regulatory guidance of our RSRU team. Our significant experience in registry management, along with expertise in data storage, manipulation and interpretation, ensures that our registries are run seamlessly, are cost-effective and that data is used to full potential.

QUICKLY DETECTING VARIATIONS IN SERVICE PROVISION OR PATIENT OUTCOMES

The rigorous data collection required for clinical registries make them an evidence-based tool that can quickly identify negative trends in healthcare provision and device or drug performance. Data can also be used for cohort studies and clinical trials.

TRANSLATION INTO GUIDELINES AND ENSURING PATIENT SAFETY

Our Haemostasis Registry was crucial to demonstrating mortality and morbidity outcomes arising from off-licence use of Factor VIIa in critical bleeding, and registry findings were incorporated into patient blood management guidelines for massive transfusions.

The Australian Breast Device Registry will be invaluable in monitoring the safety of breast devices in the face of a growing association between textured breast implants and anaplastic large cell lymphoma.

monash.edu/medicine/sphpm/registries

OUR REGISTRIES COVER THE FOLLOWING DOMAINS:

- CANCER
- MEDICAL DEVICE
- SURGICAL PROCEDURES
- TRANSFUSION
- BURNS
- RESPIRATORY
- HEART
- JOINTS
- TRAUMA
- SPINE
- KIDNEY

INTERNATIONAL LEADERS IN **CLINICAL TRIALS MANAGEMENT**

WE'RE AN INTERNATIONAL LEADER IN CLINICAL TRIALS MANAGEMENT, INVESTIGATING IMPROVEMENTS TO PATIENT CARE ENCOMPASSING PRE-HOSPITAL, EMERGENCY AND TRAUMA, INTENSIVE CARE AND ANAESTHESIA. OUR INVESTIGATORS MANAGE HIGH-IMPACT, INVESTIGATOR-INITIATED NATIONAL AND INTERNATIONAL CLINICAL TRIALS, INCLUDING AUSTRALIA'S LARGEST CLINICAL TRIAL (ASPREE).

FINDING THE BEST TREATMENTS FOR VULNERABLE PATIENTS

The DECRA trial (NEJM 2011) yielded unexpected results about the efficacy of an increasingly popular neurosurgery for severe traumatic brain injury (TBI) patients. These were incorporated into American TBI guidelines, and effective local translation of the findings was estimated to save Australia more than $100M annually. DECRA was cited in Harvard University's most important studies in critical care medicine.

POWERING DEFINITIVE DATA

Statin use in the healthy elderly is contentious, due to lack of strong evidence and a 2015 high-profile media report based on incorrect information. The STAtins in Reducing Events in the Elderly clinical trial will fill this vital knowledge gap by delivering results that definitively answer whether statins can prolong good health in healthy older people.

REDUCING PRECIOUS RESOURCE WASTAGE

Donated blood products are a precious resource, vital for many critically ill patients. The TRANSFUSE randomised control trial sought to determine if the freshness of packed cells affected survival rates among these patients. Our researchers recruited 4,994 patients across 59 sites in five countries, and concluded there was no difference in 90-day mortality, supporting standard practices that use the oldest blood products first.

OUR WORLD-CLASS FACILITIES ARE SUPPORTED BY ADVANCED DATA MANAGEMENT TEAMS AND BIOSTATISTICIANS. WE LEVERAGE UNIQUE RELATIONSHIPS WITH BOTH THE ALFRED HOSPITAL AND MONASH MEDICAL CENTRE TO PROVIDE ROBUST PLATFORMS ON WHICH TO RECRUIT PATIENTS AND RUN CLINICAL TRIALS.

UNDERSTANDING LIVED **EXPERIENCE THROUGH QUALITATIVE RESEARCH**

QUALITATIVE HEALTHCARE RESEARCH REVEALS IMPORTANT BUT UNQUANTIFIABLE IMPACTS OF ILL-HEALTH AND HEALTHCARE ON PATIENTS. OUR EXPERTS CAPTURE THESE WITH QUALITATIVE TOOLS, AND APPLY THEM TO HOLISTIC TREATMENT AND PREVENTION RECOMMENDATIONS THAT ACKNOWLEDGE THE CHALLENGES OF MANAGING HEALTH WITHIN A COMPLEX MILEU OF PERSONAL, FAMILIAL, COMMUNITY AND WORK NEEDS.

IMPROVING POST-DISCHARGE CARE FOR TRAUMA VICTIMS

The Victorian State Trauma Registry and Victorian Orthopaedic Trauma Outcomes Registry provide a wealth of data, and a qualitative investigation in 2011-2012 produced interviews with 120 participants who had been discharged from Victorian trauma centres. Analysis revealed a consistent lack of coordination across post-discharge care, and a strong desire for a single point of contact. These findings helped secure a current TAC-funded study, MTReC Evaluation, which explores the efficacy of a program developed to mitigate these issues.

PATIENT REPORTED OUTCOME MEASURES (PROMs)

PROMs are questionnaires that patients complete about their perceptions of the effects of health and healthcare on their health, quality of life and daily functioning. They provide specific and unique insights into the impact and quality of healthcare and health services.

Our experts have generated PROMs on behalf of Medibank Private for patients undergoing cardiac surgical procedures, are working with the International Consortium for Health Outcomes Measurement to develop PROMs for people with osteoarthritis, and are integrating Australia's first PROM into clinical use for people with pancreatic and oesophageal gastric cancer.

IMPROVING FERTILITY SERVICES FOR CANCER PATIENTS

As cancer survival rates rise, the demand for cryostorage of reproductive material for cancer patients is growing. School researchers conducted and analysed thirteen semi-structured interviews with a diverse range of key health professionals at well-established Assisted Reproductive Treatment (ART) clinics to inform policy and procedure in the space. The results revealed target areas for improvement including communication between oncology and ART specialists, management of patient anxiety and expectations, and procedural and administrative processes.

GLOBAL IMPACT

PUBLIC HEALTH IS GLOBAL BY NATURE. WE PROVIDE OUR EXPERTISE TO PROGRAMS OVERSEAS AND COLLABORATE WITH INTERNATIONAL FUNDERS AND RESEARCH INSTITUTES TO AMPLIFY THE IMPACT OF OUR FINDINGS, AND SPREAD EQUITY OF ACCESS IN HEALTHCARE IN AREAS OF SOCIAL AND ECONOMIC DISADVANTAGE.

Photo: RISE project

DELIVERING CLEAN WATER AND SANITATION IN INDONESIA AND FIJI

We collaborate with colleagues across Monash University, and in the USA, UK, Indonesia and Fiji on the Revitalising Informal Settlements and their Environments (RISE) project. Over one billion people globally live in informal settlements, and over two billion live without effective sanitation. Our infectious diseases experts advise on strategies to monitor the health impacts of delivering improved water and sanitation management in 24 informal settlements across Fiji and Indonesia.

BUILDING HEALTH RESEARCH CAPACITY IN SRI LANKA

Sri Lanka provides an equitable free healthcare service for citizens, but delivery is hampered by a lack of capacity to accurately monitor and assess services through rigorous research. In 2017, we embarked upon a Department of Foreign Affairs funded program to train local leaders in healthcare research ethics and methodology, and helped them produce their first National Statement on research conduct.

The World Health Organisation is distributing materials throughout the healthcare community, driving research that can improve service delivery and reduce resource wastage.

MODELLING THE MARCH OF TUBERCULOSIS

Tuberculosis is one of the top 10 causes of death worldwide, and multi-resistance to treatment is a major public health crisis and health security threat. Our epidemiology modelling team led the development of “AuTuMN”, a software platform for modelling of TB control in high-burden countries. The platform has been implemented in Fiji, the Philippines and Bulgaria under a contract from the Global Fund to Fight AIDS, Tuberculosis and Malaria.


BULGARIA
CHINA
THAILAND
SRI LANKA
INDONESIA
PACIFIC ISLANDS
FIJI

SUPPORTING BETTER **HEALTH SERVICES**

OUR RESEARCHERS USE NOVEL STRATEGIES TO INVESTIGATE SERVICE DELIVERY AND CONSUMER EXPERIENCES, PROVIDING DATA TO BUILD SUSTAINABLE, ACCESSIBLE AND CONTINUOUSLY IMPROVING HEALTH SYSTEMS WHILST REDUCING RESOURCE WASTAGE.

MUCH OF OUR WORK IN THIS SPACE ALIGNS WITH THE AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTHCARE PRIORITIES, SUCH AS INCREASING BLOOD TRANSFUSION SAFETY, MONITORING VARIANCE IN HEALTHCARE PROVISION AND SAFER PRESCRIBING.

Collaborations with Monash Bioinformatics Platform, the Health Data Platform (HELIX) and Monash Business School boost our ability to grapple with big data and apply health economics principles to our sector-based research.

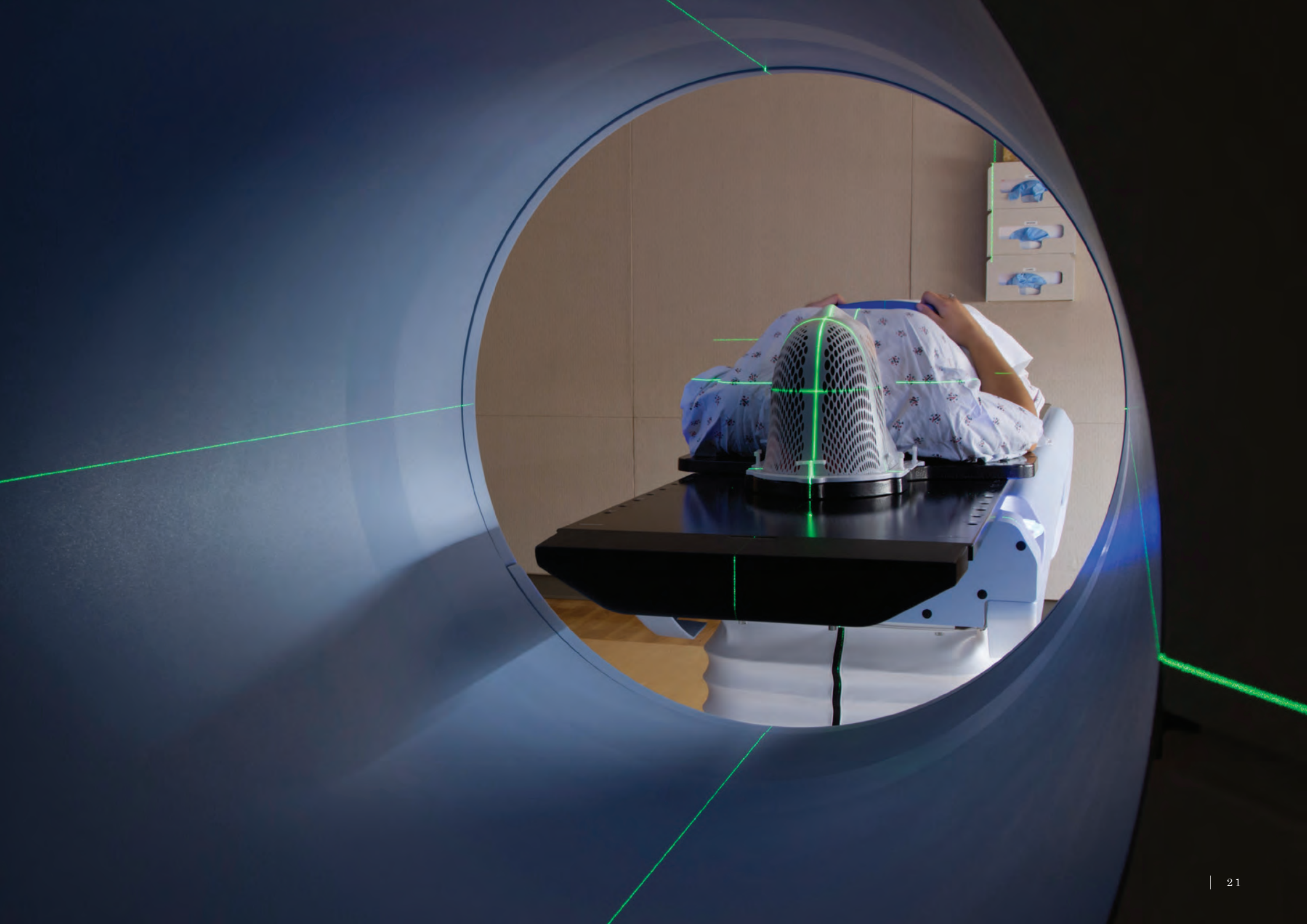
Strong relationships with major service providers including Monash Health and Alfred Health provide us with accessible real-world platforms in which to identify areas for improvement and test interventions and novel strategies.

REDUCING INEFFECTIVE SERVICES

The 6-PACK study investigated the efficacy of an inpatient falls prevention program featuring commonly used strategies to reduce patient falls. The study found that despite high engagement from nursing staff, many practices thought to be effective did not contribute to falls reduction. The results allow health services to channel resources into testing novel strategies.

MEETING PATIENT NEEDS

The Major Trauma Recovery Coordinator (MTReC) evaluation emerged following a large qualitative study that explored the needs of discharged trauma patients. High on the list was a single point of contact for their ongoing trauma management. This TAC-funded initiative explores the value of MTReCs in delivering better care and outcomes for these outpatients.



PERSONALISED MEDICINE **AND GENOMIC ANALYSIS**

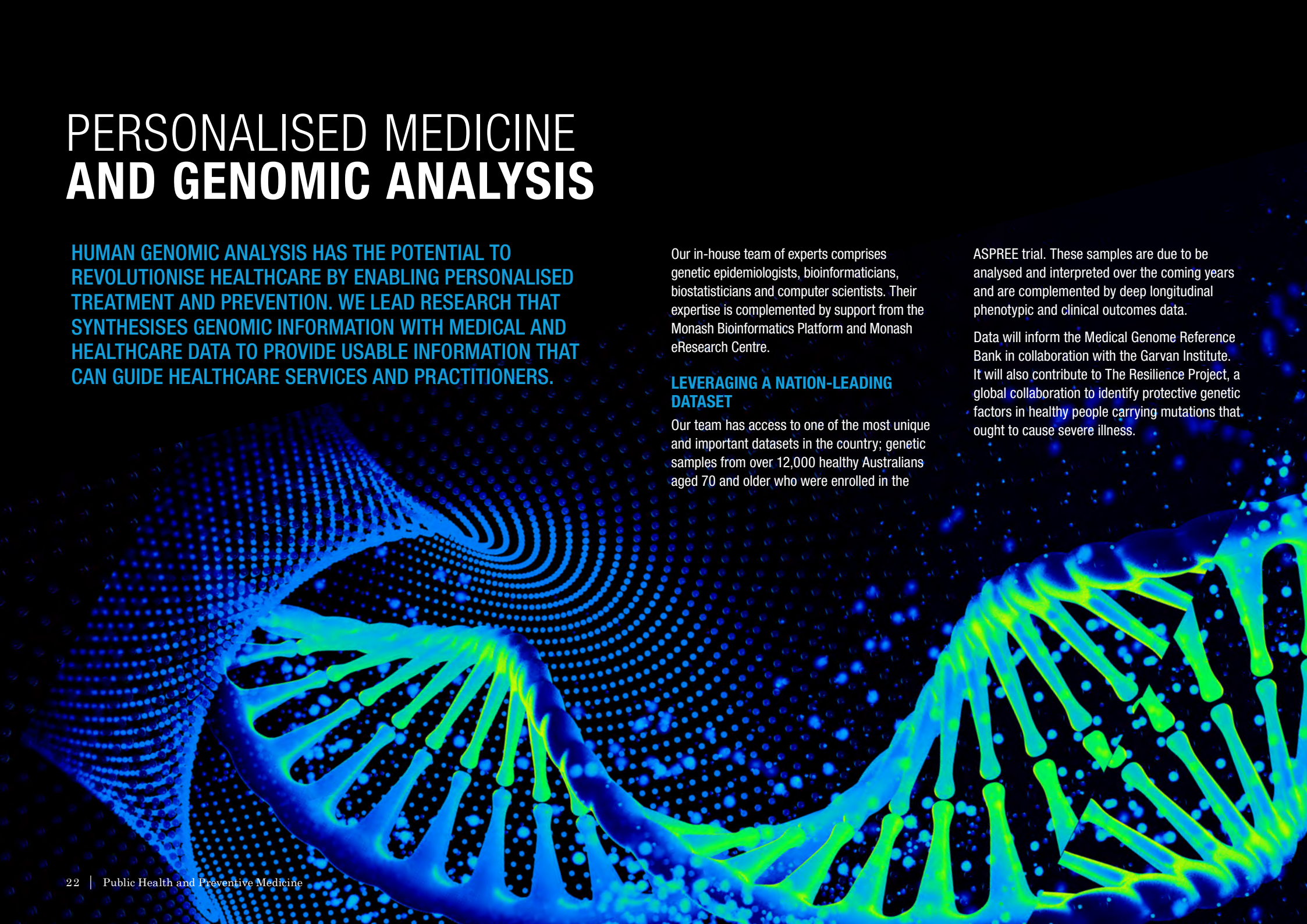
HUMAN GENOMIC ANALYSIS HAS THE POTENTIAL TO REVOLUTIONISE HEALTHCARE BY ENABLING PERSONALISED TREATMENT AND PREVENTION. WE LEAD RESEARCH THAT SYNTHESISES GENOMIC INFORMATION WITH MEDICAL AND HEALTHCARE DATA TO PROVIDE USABLE INFORMATION THAT CAN GUIDE HEALTHCARE SERVICES AND PRACTITIONERS.

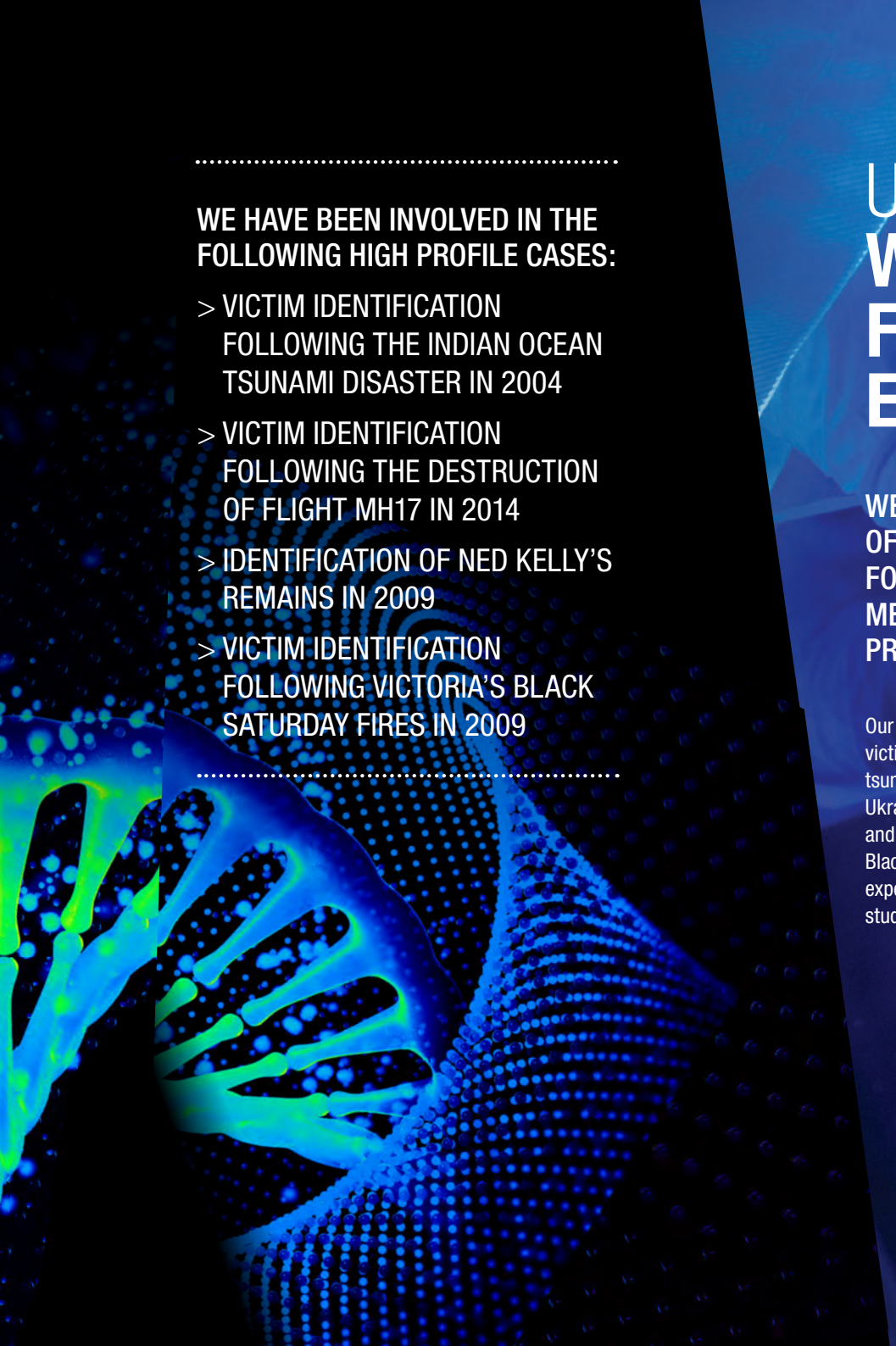
Our in-house team of experts comprises genetic epidemiologists, bioinformaticians, biostatisticians and computer scientists. Their expertise is complemented by support from the Monash Bioinformatics Platform and Monash eResearch Centre.

LEVERAGING A NATION-LEADING DATASET

Our team has access to one of the most unique and important datasets in the country; genetic samples from over 12,000 healthy Australians aged 70 and older who were enrolled in the ASPREE trial. These samples are due to be analysed and interpreted over the coming years and are complemented by deep longitudinal phenotypic and clinical outcomes data.

Data will inform the Medical Genome Reference Bank in collaboration with the Garvan Institute. It will also contribute to The Resilience Project, a global collaboration to identify protective genetic factors in healthy people carrying mutations that ought to cause severe illness.





WE HAVE BEEN INVOLVED IN THE FOLLOWING HIGH PROFILE CASES:

- VICTIM IDENTIFICATION FOLLOWING THE INDIAN OCEAN TSUNAMI DISASTER IN 2004
- VICTIM IDENTIFICATION FOLLOWING THE DESTRUCTION OF FLIGHT MH17 IN 2014
- IDENTIFICATION OF NED KELLY'S REMAINS IN 2009
- VICTIM IDENTIFICATION FOLLOWING VICTORIA'S BLACK SATURDAY FIRES IN 2009

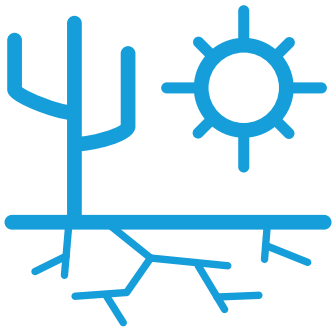
UNIQUE ACCESS TO **WORLD-RENOWNED FORENSIC MEDICINE EXPERTISE**

WE HAVE A UNIQUE PARTNERSHIP WITH THE VICTORIAN INSTITUTE OF FORENSIC MEDICINE, A GLOBAL LEADER IN THE PROVISION OF FORENSIC SCIENTIFIC AND MEDICAL SERVICES. OUR FORENSIC MEDICINE LECTURERS ARE INVOLVED IN HIGHLY COMPLEX, HIGH PROFILE FORENSIC CASES BOTH HERE AND AROUND THE WORLD.

Our team has been involved in cases including victim identification following the Indian Ocean tsunami and the downing of flight MH17 over the Ukraine, the identification of Ned Kelly's remains and victim identification following Victoria's Black Saturday fires in 2009. They pass on their expertise to our Master of Forensic Medicine students.

Some of our forensic researchers support the justice system by investigating ways to better distinguish between injuries arising from physical abuse and accidents. Others are thought-leaders who lead public discussion about topics such as safety and risk-taking among the elderly. Our research is underpinned by unique coronial datasets, and our results inform best practice and generate public debate on injury prevention.

monash.edu/medicine/sphpm/forensic



CLIMATE TRENDS REVEAL **BRISBANE, MELBOURNE** AND **SYDNEY** COULD FACE A

471%

INCREASE IN HEAT-RELATED DEATHS BY 2031

MONITORING WORKER **AND COMMUNITY HEALTH**

FROM ADVISING ON THE IMPACT OF TOXIC EXPOSURES ON WORKERS AND COMMUNITIES, TO MODELLING THE FUTURE HEALTH RISKS OF UNMITIGATED CLIMATE CHANGE, OUR OCCUPATIONAL AND ENVIRONMENTAL HEALTH EXPERTS PROVIDE AN INVALUABLE SERVICE TO THE COMMUNITY THROUGH RESEARCH AND EDUCATION.

We have strong leadership in this field, and helm major longitudinal studies including monitoring the impacts of the Hazelwood Mine Fire on the local community, and long-term cohort studies of workers in high-risk industries including petroleum, aluminium and firefighting.

monash.edu/medicine/sphpm/divisions/occupational-enviro-health

HEALTH WATCH

Health Watch is an internationally recognised prospective cohort study funded by the Australian Institute of Petroleum. The cohort comprises around 20,000 petroleum industry employees recruited since 1981. It investigates the relationship between cancer incidence and causes of death in the industry, and has already had great impact, having shown a link between leukaemia and benzene exposure. The project has recently received a five-year renewal.

HAZELWOOD HEALTH STUDY

The Hazelwood Mine Fire burned for over 45 days in 2014, creating a plume of noxious smoke that enveloped nearby communities. The Monash Centre for Occupational and Environmental Health oversees the Hazelwood Health Study on behalf of the Victorian State Government, to monitor the effects of the smoke on local residents over time.

AIR QUALITY AND CLIMATE CHANGE

A future of unmitigated climate change requires a radical rethink of health services to deal with predicted health problems. Our researchers used current climate trends to reveal that Brisbane, Melbourne and Sydney could face a 471% increase in heat-related deaths between 2031 and 2080 compared to the period 1970 to 2010. The same team were also first to identify a link between exposure to fine particulate pollution (particles under a micron in diameter) and premature birth, and revealed a link between air pollution and autism.

MONASH University

MONASH
PUBLIC HEALTH
AND PREVENTIVE
MEDICINE

CONTACT US

Kirsten Marks
Marketing and Communications Coordinator
Monash Public Health and Preventive Medicine

E: kirsten.marks@monash.edu
T: +61 3 9903 0829

553 St Kilda Road
Melbourne
VIC 3004
AUSTRALIA

Follow us on Twitter: @Monash_SPHPM
Like us on Facebook: facebook.com/MonashPublicHealth

monash.edu/medicine/sphpm