



MACQUARIE
University
SYDNEY · AUSTRALIA

Australian Institute of Health Innovation

ANNUAL REPORT

2024

**Celebrating twenty years of success at AIHI,
and ten years of sustained accomplishments
at Macquarie University**

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Message from the Founding Director

LEADING THE WAY FOR SUSTAINED HEALTHCARE IMPROVEMENT



In framing an entire year of activity at the Australian Institute of Health Innovation (AIHI), the overarching message is that in 2024, we have again risen to the challenge of investigating the leading drivers shaping the future of healthcare. We have continued our 20-year collaborative journey with consumers, clinicians, industry and policymakers to improve healthcare. These efforts have not only consolidated our position as a leader in high-quality translational research but have also been instrumental in nurturing the next generation of health systems researchers.

This year, we celebrate our journey so far and our steadfast dedication

to providing the evidence needed to drive improvements in health systems. We take pride in our 2024 contributions, which have elevated the quality of health services research globally, ultimately enhancing health outcomes for millions of people worldwide.

In 2024, AIHI celebrated 10 years with Macquarie University. Originally established at the University of New South Wales, AIHI transferred to Macquarie on 3 November 2014. In the pages to follow, we discuss this 10-year success story at Macquarie, but in the meantime, here are some highlights (see table below).

HIGHLIGHTS OF 10 YEARS OF PERFORMANCE AT MACQUARIE UNIVERSITY (2014 – 2024)

Global reach:	Engaging with 152 countries to reform health systems.
Rewarding partnerships:	Nurturing long-term relationships with 200 national and international stakeholders and partners.
International influence:	Collaborating with esteemed organisations including the United Nations (UN), World Health Organisation (WHO), the Organisation for Economic Co-operation and Development (OECD), World Bank, and the International Society for Quality in Health Care (ISQua).
Prestige collaborations:	Producing 36.4% of AIHI publications with international collaborators.
Unrivalled publications:	Publishing over 3,161 books, chapters and articles.
Landmark projects:	Participating in more than 338 major funded projects.
Exceptional teams:	Uplifting health services research by attracting over 700 staff, students and associates over the 10-year period; and achieving gender parity at the senior level.

Despite the complexities and challenges of delivering this consistently high-level of accomplishment and performance, the multi-faceted success of AIHI can be distilled to five key points. We provide:

- A highly collaborative, multidisciplinary approach both internally and with external partners and stakeholders;
- A supportive and celebratory environment for generating new ideas and enabling innovation in a setting that encourages diversity and inclusion;

- An inspiring culture for recognising excellence in research and leadership;
- Excitement for discovery and translation; and
- An encouraging, joyous workplace.

There are many people to thank for supporting our activities in 2024 and also those who sustained us across our 10-year journey with Macquarie. Most importantly, we acknowledge with gratitude the Vice-Chancellor, Professor S Bruce Dowton; Deputy Vice-Chancellor (Research) Professor Sakkie Pretorius; Deputy Vice-Chancellor (Medicine and Health) Professor Patrick McNeil; and the

two Executive Deans in the Macquarie Business School in 2024, Professor Eric Knight (outgoing) and current incumbent Professor Leonie Tickle. Finally, to our Board, staff, visiting appointees, and stakeholders and partners around the world: we deeply appreciate our many productive relationships and your involvement in our research.



Professor Jeffrey Braithwaite
FOUNDING DIRECTOR

Selected key accomplishments in 2024

Knowledge Gain: Publishing 514 articles, books, chapters and reports or, said more vividly, on average we publish more than one refereed contribution for every day of the year, including several papers on climate change and artificial intelligence (AI) in the *British Medical Journal (BMJ)*, and an article on genomics in Australia in the *New England Journal of Medicine*.

Health Gain: Optimising digital solutions to enhance medication safety in hospitals and aged care.

Societal Gain: Leading research into health systems' responses to climate change; providing national guidance on the safe and ethical use of AI in healthcare; and creating opportunities for consumers to co-lead, co-design, and co-facilitate research initiatives.

Economic Gain: Delivering economic evaluations to enrich decision-making; for example, through our work evaluating new prescription drugs for the Australian Government's Pharmaceutical Benefits Scheme, the national program for subsidising medicines.

Who we are

REPRESENTING EXCELLENCE IN HEALTHCARE RESEARCH

AIHI is a globally recognised research institute, committed to revolutionising healthcare services, systems, and policies in Australia and beyond. Headquartered within Macquarie University's innovative MQ Health — Australia's first fully integrated academic health sciences centre — and with a footprint in both the Faculty of Medicine, Health and Human Sciences and Macquarie Business School, AIHI boasts the largest team of dedicated health services researchers in the nation.

In 2024, AIHI's commitment to impactful research was exemplified by managing grants and contracts valued at over \$58 million. AIHI researchers contributed significantly to collaborative projects with an additional enterprise value of \$108 million, underscoring their pivotal role in the global research community.

The Institute's success stems from the dedicated efforts of a multidisciplinary team comprising clinicians, scientists, social scientists, psychologists, pharmacists, engineers, epidemiologists, informatics experts, economists, statisticians, and data analysts. This cohesive team works in harmony to strengthen health systems, both domestically and internationally.

AIHI's 65 Graduate Research (PhD and Master of Research) candidates play a crucial role in advancing numerous projects, representing the next wave of healthcare innovators. In addition, AIHI is deeply involved in educating future health leaders through Macquarie University's Master of Public Health Program and the flagship Doctor of Medicine (MD) Research Program.

AIHI's influence extends through its key partnerships with the Australian Government, state and territory governments, and the private sector. The Institute leverages its global reach by collaborating with major international agencies such as the UN, WHO, and OECD. Through these alliances, AIHI engages in comprehensive health reform initiatives, working alongside governments, policymakers, and academics worldwide to inform decision making and drive meaningful change in healthcare.

AIHI comprises four independent, complementary, and highly collaborative research centres, each of which takes a systems perspective to address challenges in healthcare, utilising highly innovative and wide-ranging research methods:

- Macquarie University Centre for the Health Economy (MUCHE)
- Centre for Health Informatics (CHI)
- Centre for Health Systems and Safety Research (CHSSR)
- Centre for Healthcare Resilience and Implementation Science (CHRIS)



AIHI at a glance

HEAL. LEARN. DISCOVER.



ADVANCING RESEARCH OPPORTUNITIES

\$58m

Enterprise value of projects under AIHI management

161

Number of research projects under AIHI management

\$108m

Enterprise value of grants administered elsewhere involving AIHI

58

Number of projects administered elsewhere involving AIHI

\$12m

Enterprise value of grants commenced or awarded in 2024

\$41.5m

Category 1 funding for grants under management 2024



BUILDING GLOBAL KNOWLEDGE

514

Number of peer-reviewed publications and commissioned reports

200

Number of significant presentations including keynotes, talks, workshops, and seminars



FOSTERING RESEARCH LEADERS

314

Number of researchers, visiting appointees, and professional staff

65

Number of Graduate Degree research students (PhD and MRes)

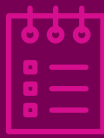
RESEARCH AT AIHI: DRIVING INNOVATION AND EXCELLENCE IN HEALTHCARE

At the heart of AIHI's mission is a commitment to transformative research. By partnering with frontline stakeholders — patients, caregivers, policymakers, and health professionals — we aim to support the delivery of efficient and effective person-centred care that is both sustainable and impactful.



Collaborative Research

We work closely with patients and stakeholders to design and conduct research that benefits the health system.



Performance Measurement

We evaluate the performance and quality of the healthcare system.



Implementation Science

We assess the effectiveness and efficiency of various healthcare interventions.



Policy Impact

We measure the effects of government policies on patients and the health economy.



Complexity Science

We investigate how and why healthcare interventions work within complex systems.



Innovative Insights

We derive new insights from data to enhance the health system and society.



Methodological Advancements

We introduce new research methods, innovations, and theories.



Theoretical Frameworks

We develop new theories, frameworks, and tools to improve healthcare delivery.

DIVERSIFIED FUNDING SOURCES SUPPORT OUR HIGHLY APPLIED RESEARCH



Category 1

Value of grants awarded from the Australian Competitive Grants Register



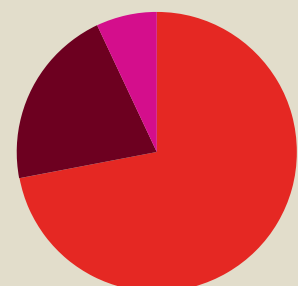
Category 2 and 3

Other Public Sector and Industry Research and Development Income



OTHER

Other Research and Development Income



Our Directors

LEADING GROWTH AND INNOVATION



AIHI Directors, Professors Enrico Coiera, Jeffrey Braithwaite, Johanna Westbrook, and Henry Cutler

**PROFESSOR JEFFREY
BRAITHWAITE****Founding Director, AIHI****Director, Centre for Healthcare
Resilience and Implementation
Science, AIHI****Professor of Health Systems
Research, Macquarie University****Immediate Past President,
International Society for Quality
in Health Care**

Professor Jeffrey Braithwaite is a leading health services and systems researcher with an international reputation for his work investigating and contributing to systems improvement. He is visiting or adjunct Professor at Newcastle University and University of Birmingham (UK), University of Southern Denmark (Denmark), University of Stavanger (Norway), University of New South Wales, and Honorary Senior International Research Fellow at the Canon Institute for Global Studies (Japan). He is the Immediate Past President of ISQua, where he was President between 2020 to 2024. He has considerable expertise in researching the culture and structure of acute settings, leadership, management and change in health sector organisations, quality and safety in healthcare, accreditation and surveying processes in an

international context, and the restructuring of health services, working with 152 countries.

Professor Braithwaite has published extensively about organisational, social, and team approaches to care (over 900 refereed contributions and 1,550 publications) with more than 39,980 citations. He has presented at or chaired international and national conferences, workshops, symposia and meetings on more than 1,531 occasions, including over 150 keynote addresses. The theories and ideas he has shaped or devised are now in common use; for example, multi-method, triangulated approaches to research, the boundary-less hospital, accreditation models in general practice and beyond, clinician-managers as key players in reform initiatives, fundamental principles for the governance of health systems, diversity in clinical professional groups, and inter-professional learning and culture change as a more sustainable strategy for reform. His empirical results have exposed the distinctive attitudes of clinical professional groups, how clinician-managers enact their leadership responsibilities, the behavioural displays of clinicians in service structures, and the status of system-wide patient safety improvement initiatives.

**PROFESSOR JOHANNA
WESTBROOK****Director, Centre for Health
Systems and Safety Research,
AIHI****Professor of Health Informatics
and Patient Safety, Macquarie
University****Co-Director, Safety, Quality,
Informatics and Leadership
Program, Harvard Medical School,
Harvard University****NHMRC Elizabeth Blackburn
Investigator Leadership Fellow**

Professor Johanna Westbrook is internationally recognised for her extensive expertise in medication safety and her research evaluating the effects of information and communication technology (ICT) in healthcare. She investigates questions about if and how technologies support safer and more efficient healthcare, and how to identify and address the new problems that these systems create.

Professor Westbrook has contributed to theoretical models regarding the design of complex multi-method ICT evaluations and conducted large trials of their effects. To support the conduct of observational workflow studies, she developed the Work Observation Method by Activity Timing (WOMBAT) software (version

3.0 available in the Apple Store), now adopted by 79 research teams across 20 countries. These observational studies assist in understanding how to improve the integration of technologies into clinical workflows to improve the experience of health professionals and support their delivery of care.

Professor Westbrook's highly applied research has significantly advanced our understanding of how clinical information systems deliver (or fail to deliver) expected benefits and supported the translation of this evidence into policy, practice, and systemic information technology changes. Her research findings informed the recommendations of the Royal Commission into Aged Care Quality and Safety (2021). In 2024, her team presented a body of research reporting on the effects of a large-scale organisational culture change intervention aimed at reducing unprofessional behaviours among hospital staff.

Awarded over \$83 million in research grants, Professor Westbrook has over 700 publications.

In 2024, Professor Westbrook was awarded a second NHMRC Investigator Grant, building on the work of her 2020 NHMRC Elizabeth Blackburn Investigator Grant Award (Leadership in Health Services Research). In 2023, she was elected to the Australian Academy of Health and Medical Sciences in recognition

of her outstanding contribution to the field of health services research. In 2022, she was awarded the Health Services Research Award by Research Australia, a Telstra Health Brilliant Women in Digital Health Award, and the Health Services Research Association of Australia and New Zealand, Distinguished Investigator Award. Since 2020, Professor Westbrook has been a Co-Director of Harvard Medical School's Safety, Quality, Informatics and Leadership (SQIL) Program, which each year, trains over 100 senior quality and safety leaders from around the world.

PROFESSOR HENRY CUTLER

Inaugural Director, Centre for the Health Economy, AIHI

Visiting Researcher, Nuffield Department of Population Health, University of Oxford

Professor Henry Cutler is the inaugural director of the Macquarie University Centre for the Health Economy within AIHI, Australia's largest health services research group. He is also a Visiting Research Fellow at the Nuffield Department of Population Health, University of Oxford (UK). Professor Cutler has published in world-leading journals, conducted over 200 health economics research projects for government and non-government organisations, and attracted over \$40 million in grant funding as a chief investigator. Professor Cutler has guest lectured at Harvard University

and the University of Oxford and has served on several nationally important expert advisory panels for government. In 2024, these included the National Suicide Prevention Office (NSPO) Expert Advisory Group, the Department of Health and Aged Care Expert Advisory Panel for the Review of General Practice Incentive Programs, and the National Disability Insurance Agency Investment Effectiveness Program Academic Advisory Panel. Professor Cutler was twice an expert witness for the Royal Commission into Aged Care Quality and Safety and advised the Victorian Royal Commission into Mental Health on evaluating the economics of mental health.

Professor Cutler has received numerous awards including the inaugural Deeble Institute Fellowship by the Australian Health and Hospitals Association. Professor Cutler is regularly sought by national media for comment, and has published opinion articles in *The Australian*, *Australian Financial Review*, *The Age*, *The Mandarin* and *The Conversation*. Of note, an article written by Professor Cutler for *The Conversation* was selected for their book '2023: A Year of Consequence. Essays that got the world thinking'.

PROFESSOR ENRICO COIERA

Director, Centre for Health Informatics, AIHI

Founder and Director, Australian Alliance for Artificial Intelligence in Healthcare

Professor in Medical Informatics, Macquarie University

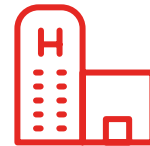
Professor Enrico Coiera has been working at the intersection of information technology and healthcare for over three decades. Trained in medicine and with a computer science PhD in AI, he began his postdoctoral career with 10 years at the prestigious Hewlett-Packard Research Laboratories in Bristol, UK, where he led numerous health technology projects. His internationally recognised textbook, *Guide to Health Informatics*, is in its third edition and has been translated into several languages. He is the founding Professor in Medical Informatics at Macquarie University and the founding Director of CHI, the longest running biomedical and health informatics academic research group in Australia.

Professor Coiera also founded the Australian Alliance for Artificial Intelligence in Healthcare (AAAiH) in 2018, and led the development of the National Policy Roadmap for AI in Healthcare which launched in 2023.

In 2022, Professor Coiera was invited to be editor-in-chief for a focus issue on climate change and health informatics by the prestigious

Journal of the American Medical Informatics Association (JAMIA), and in 2023 launched a new research stream at CHI: Climate Change and Digital Health. Professor Coiera is a Fellow of the Australian Academy of Health and Medical Sciences, as well as elected Foundation Fellow, and the first President of the Australian College of Health Informatics. He is a foundation member of the International Academy of Health Sciences Informatics, and a Fellow of the American College of Medical Informatics. In other achievements, Professor Coiera has held key appointments, served as chief investigator on multiple competitive grants (including two NHMRC Centres of Research Excellence), and currently has over 417 publications exceeding 25,180 citations, and an h-index of 83 (Google Scholar). Of Professor Coiera's publications, 31 have more than 200 citations, six have more than 600 citations and one has over 2,400 citations.

MACQUARIE UNIVERSITY



Australia's first fully integrated health precinct
created around our on-campus hospital



Ranked in the top 100 universities globally
and top 25 in 3 UN Sustainable Development Goals

(TIMES HIGHER EDUCATION IMPACT RANKINGS, 2023)

Our Board

REPRESENTING THE HEALTH SYSTEM



CHAIR
Professor Patrick McNeil

Deputy Vice-Chancellor, Faculty of Medicine, Health and Human Sciences, Macquarie University



Elizabeth de Somer

CEO,
Medicines Australia
Health system member



Professor Adam Jaffé

Paediatric Respiratory
Consultant, Sydney Children's
Hospitals Network
Health system member



Dr Elizabeth Koff AM

Director,
Telstra Health
Health system member



Professor Cliff Hughes AO

Independent member



Catherine Lourey

Independent member



Dr Karen Owen

Independent member



Emeritus Professor Les White AM

Independent member



Professor Eric Knight

Executive Dean, Macquarie
Business School
Macquarie University member



Professor Leonie Tickle

Incoming Executive Dean,
Macquarie Business School
Macquarie University member



Professor Sakkie Pretorius

Deputy Vice-Chancellor,
Research
Macquarie University member



Professor Jeffrey Braithwaite

AIHI member



Professor Johanna Westbrook

AIHI member



Professor Henry Cutler

AIHI member



Professor Enrico Coiera

AIHI member



Chrissy Clay

Board Secretary



Our partners

COLLABORATING FOR SYSTEM-READY RESULTS

The Institute takes pride in establishing partnerships with government bodies, industries, agencies, health services, and research institutions. Additionally, we greatly appreciate our collaboration with health consumers who are integral to our co-design research approach.

For a comprehensive list of our national and international partners, please visit our website at aihi.mq.edu.au. A curated selection is outlined here.



Health
systems



Academia



Clinicians



Industry



Health
consumers



Peak bodies



International
bodies



Governments

4D Medical
Aalborg University, Denmark
Abbott Diagnostics
AbbVie, USA
ACT Government Health Directorate
ACT Health
Aged Care Industry Information Technology Council
Ageing Australia (previously Aged and Community Care Providers Association)
Aged Care Quality and Safety Commission
Agency for Clinical Innovation NSW
American Medical Informatics Association, USA
Alfred Health
Amgen Australia
Anglicare
Annalise.ai
Asthma Australia
Australasian College for Emergency Medicine (ACEM)
Australasian Institute of Digital Health (AIDH)
Australian and New Zealand Hip Fracture Registry
Australian Commission on Safety and Quality in Health Care (ACSQHC)
Australian Council on Healthcare Standards (ACHS)
Australian Digital Health Agency (ADHA)
Australian Defence Force
Australian General Practice Accreditation Ltd (AGPAL)
Australian Genomics Health Alliance
Australian Government Department of Social Services
Australian Health Insurance Association
Australian Healthcare and Hospitals Association (AHHA)
Australian Hearing Hub (AHH)
Australian National University
Australian Research Council (ARC)
Australian Social Prescribing Institute of Research and Education
Avant
BaptistCare
BCAL Diagnostics
BESTMED (Best Health Solutions Pty Ltd)
Black Dog Institute
Blacktown Hospital
Bond University
Bowel Cancer Australia
Brain and Mind Centre, University of Sydney
Bupa Health Foundation Australia
Bureau of Health Information
Cancer Australia
Cancer Institute NSW (CINSW)
Canon Institute for Global Studies, Japan
CanTeen
Central and Eastern Sydney Primary Health Network (PHN)
Centre for Healthy Brain Ageing (CHeBA), University of New South Wales
Children's Cancer Institute, Australia
Children's Diabetes Centre
Clinical Excellence Commission NSW
Clinical Excellence Queensland
Cochlear Ltd
Consumers Health Forum of Australia
CSIRO Australian e-Health Research Centre

CSIRO Data61	Macquarie University Lifespan Health and Wellbeing Centre	Research Australia
Department of Health and Aged Care (Commonwealth) plus State and Territory departments of health	Mahidol University, Thailand	Roche Australia
Digital Health Cooperative Research Centre (DHCRC)	Medibank Private Ltd	Royal Australasian College of Medical Administrators
e61 Institute	Medical Council of NSW	Royal Australian and New Zealand College of Radiologists
eHealth NSW	Melanoma Institute Australia	Royal Australian College of General Practitioners
Evidentli	Melbourne Health	Royal Prince Alfred Green Light Institute for Emergency Care
Fragile X Association of Australia	Mental Health Commission of NSW	Scalabrini
Federal University of Rio Grande do Sul, Brazil	Mito Foundation Australia	Safer Care Victoria
Fujitsu Australia Limited	Monash University	SMA Australia
Fujitsu Limited	Murdoch Children's Research Institute	Southern Cross Care
Garvan Institute	Murrumbidgee Local Health District	South Western Sydney Primary Health Network
GenePath	National Disability Insurance Agency and National Disability Insurance Scheme	St George Hospital
Genetic Support Network Australia	National Disability Insurance Scheme (NDIS) Quality and Safeguards Commission	Sydney Children's Hospitals Network (Westmead and Randwick)
Gold Coast Hospital Health Service	National Health and Medical Research Council (NHMRC)	Sydney Local Health District
Harrison.ai	National Institutes of Health and National Library of Medicine, USA	Sydney North Health Network
Harvard Medical School, USA	National Stroke Foundation	Telstra Health
Harvard School of Public Health, USA	National Suicide Prevention Office	The Royal College of Pathologists of Australasia
Health Consumers NSW	Nepal Development Society (NeDS), Nepal	The Telethon Institute
Health Infrastructure NSW	Neuroscience Research Australia (NeuRA)	Therapeutic Goods Administration
Healthdirect Australia Ltd	Neu-Ulm University of Applied Sciences, Germany	University of New South Wales
Imperial College London, UK	North Coast Primary Health Network	University of Southern Denmark, Denmark
Independent Health and Aged Care Pricing Authority	Northern NSW Local Health District	University of Stavanger Centre for Resilience in Healthcare, Norway
Institute for Information Industry, Taiwan	Northern Sydney Local Health District	University of the Sunshine Coast
International Medical Informatics Association	NSW Department of Communities and Justice	Western Queensland Primary Care Collaborative
International Society of Quality in Health Care (ISQua)	NSW Health Pathology	Western Victoria Primary Health Network
Janssen Australia	NSW Health	Westmead Hospital
James Cook University	Nuvelab, South Korea	WHO
Breakthrough T1D, USA	Oracle Australia	
Karolinska Institutet, Sweden	Organisation for Economic Co-operation and Development (OECD)	
The Kids Research Institute	Outcome Health	
Kolling Institute	Perth Children's Hospital	
KPMG Australia	Primary Health Networks (PHN) – various	
Local Health Networks – various	Queensland Department of Health	
Macquarie University Business School	Rare Voices Australia	
Macquarie University Centre for Motor Neuron Disease Research		
Macquarie University Cyber Security Hub		
Macquarie University Hospital and MQ Health		

Key new grants and contracts

CONTINUING STRONG PERFORMANCE – COMMENCING OR AWARDED IN 2024

MEDICAL RESEARCH FUTURE FUND

\$4.98M

The National Paediatric Applied Research Translation Initiative (N-PARTI)

Professor Jeffrey Braithwaite

Partners:

Child and Adolescent Health Service
Gold Coast Hospital and Health Service
University of New South Wales

MEDICAL RESEARCH FUTURE FUND

\$1M

Pioneering co-created patient-reported experience measures for people with intellectual disability to improve health outcomes

Professor Reema Harrison

Partners:

The University of New South Wales
University of Sydney
Monash University
Deakin University
Sydney Children's Hospitals Network
Victoria Department of Health
Agency for Clinical Innovation
Sydney Local Health District
Monash Health
St Vincent's Health Australia
Bureau of Health Information
NSW Ministry of Health
Northern Health

MEDICAL RESEARCH FUTURE FUND

\$628K

A national platform for evaluation and integration of advanced analytics in the diagnosis of genetic disease

Professor Enrico Coiera
Professor Shlomo Berkovsky

Partners:

The Garvan Institute of Medical Research
Murdoch Children's Research Institute
Central Adelaide Local Health Network
Microsoft Corporation
The Broad Institute Inc
Part of a \$8M grant awarded to Professor Daniel MacArthur, Garvan Institute of Medical Research

NHMRC INVESTIGATOR GRANT

\$2M

Optimising and leveraging technology to improve medication safety

Professor Johanna Westbrook

Partners:

Child and Adolescent Health Service
Gold Coast Hospital and Health Service
University of New South Wales

PARTNER FUNDED RESEARCH

\$550K

Proactive primary care project: Independent evaluation

Professor Jeffrey Braithwaite

Partners:

Medibank Private: the Myhealth project

PARTNER FUNDED RESEARCH

\$520K

Closing the vaccination gap: Achieving vaccination equity for vulnerable populations in regional primary care

Dr Georgia Fisher

Partners:

Western Victoria Primary Health
Network Limited

PARTNER FUNDED RESEARCH

\$290K

Predicting suicide risk within Australian local government areas

Professor Henry Cutler
Dr Anam Bilgrami



Dr Anam Bilgrami

IMPACT STORIES

Delivering the evidence for health system improvement

Celebrating 10 years of research and innovation

For the past decade, AIHI has thrived at Macquarie University, marking its 10-year milestone in 2024. The journey began over 20 years ago, with the formation of AIHI at the University of New South Wales, under the leadership of Professors Jeffrey Braithwaite, Enrico Coiera, and Johanna Westbrook. In 2014, AIHI moved to Macquarie University, in agreement with Vice-Chancellor Professor S Bruce Dowton. This strategic move catalysed a profound collaboration with Professor Henry Cutler and the Macquarie University Centre for the Health Economy (MUCHE). Their synergy was solidified in 2022 when MUCHE

formally integrated with AIHI, while also remaining a flagship research group within Macquarie Business School.

AIHI's commitment to advancing healthcare is demonstrated in impactful ways. Through pioneering research that revolutionises healthcare policy and practice, to the development of new theoretical models, cutting-edge tools, and digital systems. These innovations significantly enhance care delivery and elevate the quality of health services, policy, and research internationally. One notable testament to AIHI's influence is the

recent establishment of a national health services research institute in Denmark, inspired by AIHI's exemplary model.

Today, AIHI is celebrated not only as the premier health services research group in Australia but also as one of the most significant on the world stage. As AIHI looks to the future with optimism, it continues to foster collaborations and make strides in healthcare in Australia and around the world. This transformative journey is a testament to AIHI's ongoing dedication and the boundless potential of innovation in healthcare.





Achieving the milestone of publishing more than one publication every day of the year.



Leading two NHMRC Program grants, a NHMRC Partnership Centre, three NHMRC Centres of Research Excellence, and multiple NHMRC Partnership Projects, Medical Research Future Fund (MRFF) and Australian Research Council grants.



Achieving gender parity across senior research positions — a unique achievement in STEM.



Our work featuring in leading journals such as the *New England Journal of Medicine*, *BMJ*, *MJA*, *Nature*, and *JAMA*; in discipline-speciality journals such as *Implementation Science*, *BMJ Quality and Safety*, *JAMIA*, *Millbank Quarterly*, *Health Economics*, and *PharmacoEconomics*; and practitioner and consumer-focussed outlets including *The Conversation*.



More than 200 conference presentations or keynotes annually across more than 38 countries over the last 10 years.



Widely adopted research tools including The Work Observation Method by Activity Timing (WOMBAT) software used in 20 countries with more than 80 publications.



Benchmarked internationally, AIHI publications are cited at 380% above world standard (FWCI 3.80).



Extensive media engagements with more than 200 unique contributions annually.



Successfully established spin-off commercial entities e.g. Evidentli.

\$58M

Research funding increasing yearly with more than \$58M supporting current research projects.



More than 200 long-term collaborations with healthcare, industry, consumer, and professional groups.



Multiple research awards and fellowships e.g. Sax Medal, NHMRC Investigator Awards, NSW Premier's Award for Outstanding Cancer Research, NHMRC Elizabeth Blackburn Award, International Medical Informatics Association François Grémy Award for Excellence, and Deeble Institute Fellowships.

IMPACT STORIES

Delivering the evidence for health system improvement

Consumers guide research at AIHI



Dr Ashfaq Chauhan was awarded the Outstanding Early Career Researcher Award for the CanEngage project at the 2024 NSW Premier's Awards for Outstanding Cancer Research.

In 2024, the AIHI Consumer Engagement Panel made significant strides in promoting consumer-centred research. Ten consumers, representing diverse cultural, demographic, and geographic backgrounds, came together throughout the year to provide insightful feedback on research proposals. The topics under review included mental health following serious injury, the use of artificial intelligence to detect cancers, and the enhancement of hospital safety culture.

At AIHI, we believe that placing consumers at the heart of our research is pivotal to achieving meaningful and impactful outcomes. Our commitment to consumer-centred research ensures that their voices and experiences are integral to every stage of our work. By actively involving consumers through a

variety of initiatives, we foster a collaborative environment where diverse perspectives are valued.

Additionally, the AIHI Aged Care Consumer Panel, comprising aged care residents and carers, meets regularly to advise researchers on aged care safety and quality issues. The Listen to Me project includes people living with intellectual disability as co-lead investigators; an Indigenous coordinator is employed on MyED, a large emergency department project; and the award winning CanEngage project involved co-production and multicultural consumer co-facilitators.

Each of these initiatives embody AIHI's dedication to integrating consumer perspectives throughout the research lifecycle, paving the way for advancements that resonate with and benefit the broader community.

Each consumer brings first-hand experience with the health system, ensuring that our research remains relevant and impactful to those it aims to serve.

IMPACT STORIES

Delivering the evidence for health system improvement

Experts set climate change research agenda

The national 'Roundtable on the impact of climate change on human health — bridging research and action for a sustainable future' was hosted by AIHI on 19 March 2024. Esteemed delegates from health, government, agencies, academia, and consumer groups gathered to address this pressing issue.

The Roundtable galvanised thought leaders to design the next generation

of research on the impact of climate change on human health and health system sustainability for Australia.

Working with local, national and international collaborators, AIHI has already made significant contributions to the body of evidence around climate change through research publications in leading journals including *Nature Climate Change*.

AIHI has also provided advice to health systems, agencies and governing bodies including the UN, WHO, ISQua and the OECD through the five-year NHMRC Partnership Centre for Health System Sustainability.



Led by Professor Jeffrey Braithwaite (centre), participants from across Australia contributed to the national policy agenda for understanding the impact of climate change on human health.



Scan the QR code to
learn more about the
future of healthcare

IMPACT STORIES

Delivering the evidence for health system improvement

Evaluations shaping Australia's healthcare future



Associate Professor Bonny Parkinson led the evaluation teams.

In a significant move to bolster public healthcare, the Australian Government is focussing on the effectiveness and cost-efficiency of new medicines and vaccines.

In 2024, MUCHE carried out nine critical evaluations for the Australian Pharmaceutical Benefits Advisory Committee (PBAC). These evaluations help determine which new medicines are publicly funded in Australia.

MUCHE's team reviewed and analysed complex clinical and economic data, collaborating closely with the Department of Health and Aged Care (DoHAC) and PBAC members. This work directly impacts the availability of medicines in the public healthcare system, affecting millions of Australians.

For example, listing a new drug can cost the government up to \$100 million over six years. However, MUCHE's evaluations have led to substantial price reductions, saving millions of dollars. These savings allow funding for other new medicines, enhancing patient access and health outcomes.

Improved access to new medicines boosts life expectancy and quality of life and prevents disease onset. MUCHE's work ensures the sustainability of Australia's healthcare system, benefiting countless patients.

IMPACT STORIES

Delivering the evidence for health system improvement

New study reveals potential link between delirium and dementia

A recent study published in the international journal, *BMJ*, identified a significant link between delirium and dementia among older adults. Analysing anonymised hospital records for over 110,000 people aged over 65 in New South Wales over 11 years, researchers found that patients who experienced delirium during hospital stays developed dementia at triple the rate of those who did not.

Led by researchers at the University of Queensland and AIHI, the study highlights the need for effective delirium prevention strategies. Delirium, characterised by sudden confusion and disorientation, affects more than 40% of people aged 80 and older during hospitalisation.

The findings suggest that preventing delirium could significantly reduce the risk of dementia. This study underscores the importance of targeted interventions to improve outcomes for elderly patients and reduce the global burden of dementia.



Professor Shlomo Berkovsky led the AIHI team to analyse the enormous dataset, revealing a potential link between delirium and dementia.



**Scan the QR code
to read the article
in *BMJ***

IMPACT STORIES

Delivering the evidence for health system improvement

Transforming aged care with real time analytics



Dr Nasir Wabe, Dr Amy Nguyen and Professor Johanna Westbrook presented findings from the dashboard research to an international audience at the ISQua conference.

The pilot trial's success is evident, with one of the dashboard-implemented sites reporting the lowest fall rate ever recorded at that facility.

In 2024, AIHI's NHMRC Partnership Project reached a pivotal milestone in its mission to enhance the health and welfare of aged care residents. Following a successful pilot trial, the project launched a cluster-randomised controlled trial across 20 Anglicare aged care facilities.

The project harnesses the power of an innovative electronic dashboard to deliver real-time data, driving improvements in care and targeting the reduction in fall rates. The pilot trial's success is evident, with one of the dashboard-implemented sites reporting the lowest fall rate ever recorded at that facility.

This initiative highlights the transformative potential of predictive analytics and decision support systems in aged care. By providing safer, more person-centred outcomes, the project exemplifies how cutting-edge technology can revolutionise the way care is delivered to aged care residents.



Scan the QR code to find out more about the Dashboard

IMPACT STORIES

Delivering the evidence for health system improvement

Transforming paediatric care by tackling key health issues



Professor Jeffrey Braithwaite leads the research project to improve the health outcomes of Australian children.

A national project is set to transform paediatric care by addressing critical areas: asthma, type 1 diabetes, and antibiotic overuse. Awarded \$4.9 million from the MRFF, the project aims to improve evidence-based care for children.

Research highlights significant gaps in current practices. For asthma and diabetes, only 54% of care provided by GPs aligns with guidelines. Additionally, antibiotics are inappropriately prescribed in 85% of visits for low-risk conditions. The project seeks to close these gaps through collaboration with stakeholders, including patients, families, clinicians, and researchers.

Professor Braithwaite emphasises the urgency of the research, noting

that despite existing guidelines, children with type 1 diabetes often fail to reach recommended glycaemic targets, leading to severe health consequences.

Research shows for example that despite availability of guidelines and effective treatment, only 15% of children and adolescents with type 1 diabetes reach recommended glycaemic targets and as a result have life expectancy reduced by 12-16 years, and a 30-fold increased risk of heart attack in early adulthood.

By prioritising best-practice guidelines, the project aims to enhance care quality and outcomes for Australian children.



Scan the QR code to find out how we are improving care for kids

Graduate Research candidates at AIHI represent the future leaders in healthcare, embodying innovative ideas and a dedicated approach. Here, recent candidates share their perspectives.

Researchers of the future

INTRODUCING THE LEADERS OF TOMORROW



QUNFEI CHEN

I successfully completed my PhD at AIHI in 2024. My doctoral thesis focussed on how uncertainties in economic models and surrogate outcomes used in health technology assessments influenced the decision making process of the Pharmaceutical Benefits Advisory Committee (PBAC) in recommending medicines for funding. The findings of my research aim to enhance the committee's decision-making efficiency and improve patients' access to new medicines.

I am currently working as a Research Fellow (Health Technology Assessment Analyst) at the University of Newcastle, where I continue to contribute on the PBAC evaluations for medicines.



BRENTON SANDERSON

I am an anaesthetist and recently completed my PhD at AIHI investigating the role of decision support for massive blood transfusions for critically ill patients with major haemorrhage. Using user-centred design with a multidisciplinary team of researchers, we developed a pilot clinical decision support system and examined its efficacy in simulated critical bleeding scenarios.

I have now joined AIHI as an Honorary Postdoctoral Associate where I continue to provide a clinical perspective on health informatics projects.

**ISABELLE MEULENBROEKS**

2024 was a year of milestones in my research career. I completed my PhD on allied health services in residential aged care and began my postdoctoral role at AIHI. As a Jeff Cheverton Memorial Scholar with the Deeble Institute for Health Policy Research, I had the privilege of honing my policy skills during a residency in Canberra.

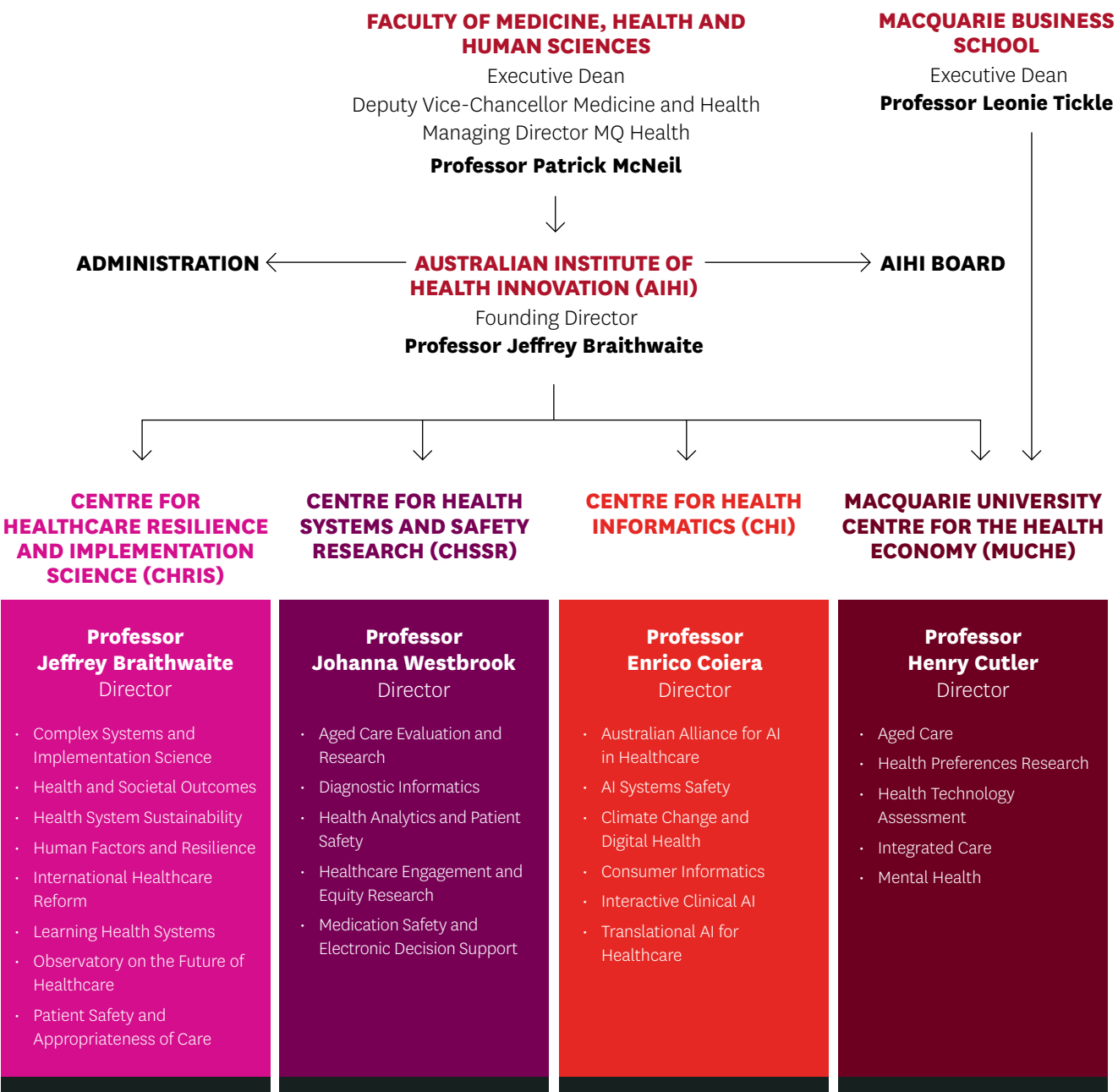
Now, at AIHI, I focus on advancing aged care quality through projects like the Anglicare dashboard, which predicts falls and visualises quality of life data at the resident level, and a collaboration with BESTMED to develop a trigger tool to prioritise pharmacist reviews using routinely collected data. My research aims to drive innovation, enhance care quality, and advance multidisciplinary practices in aged care.

**SAGDA OSMAN**

I am completing my PhD investigating the unintended consequences of telehealth in rural Australia using systems-thinking approaches to uncover the underlying systemic structures and patterns that generate these consequences. My diverse background in engineering, IT, and health systems helps me bring a multidisciplinary perspective to complex healthcare challenges. As a Research Assistant at AIHI, I contribute to projects improving healthcare engagement and equity for underserved communities. Following my PhD completion, I plan to pursue a career in health systems research.

“The guidance and mentorship from my supervisors and colleagues at AIHI have been invaluable in building my research skills.” — SAGDA OSMAN

Organisational structure



Introducing our Centres

DRIVING EXCELLENCE IN HEALTHCARE SERVICES AND SYSTEMS

AIHI is at the forefront of healthcare innovation and is dedicated to advancing healthcare services and systems for individuals and communities. Central to this mission are four dynamic and complementary Research Centres:

- Macquarie University Centre for the Health Economy
- Centre for Health Informatics
- Centre for Health Systems and Safety Research
- Centre for Healthcare Resilience and Implementation Science

These Centres function as specialised hubs for pioneering research initiatives, with each one making significant contributions to the field. They not only excel individually but also thrive through extensive collaboration with one

another, MQ Health, the wider Macquarie University community, and partners globally.

The strength of AIHI's collaborative model is further highlighted by additional research and leadership initiatives including the first Fujitsu Small Research Lab located in the Southern Hemisphere, the National Paediatric Applied Research Centre funded by the NMHRC Rapid Applied Research Translation Initiative, one of only eight centres for PBAC evaluations, and Australia's first Medication Roundtable for Aged Care.

In the following pages, we showcase highlights from each of our Research Centres, illustrating their vital role in enhancing healthcare services and systems.



Macquarie University Centre for the Health Economy

“Formulating and analysing public healthcare policy is complex. Political and social values, systemic factors, interest groups and pathway dependence can create conflict. The recent advent of large Australian government linked administration data offers an unprecedented opportunity to empirically answer previously unanswerable policy questions. Health economics is at the forefront of this policy analysis revolution.”

— PROFESSOR HENRY CUTLER

The Macquarie University Centre for the Health Economy (MUCHE) is a university strategic initiative created in 2014 to undertake innovative research on health and aged care. In 2024, MUCHE and partners were awarded more than \$27 million in research grant funding for new projects.

MUCHE is contributing deeply to the ongoing and ever changing healthcare and policy debate. In 2024 it worked with several federal and state government departments and agencies on important policy questions related to mental health, suicide prevention, health technology, and healthcare funding and financing. These required a deep understanding of the healthcare system, policy formulation, and sophisticated data analytic techniques.

MUCHE has developed a strong reputation for answering complex health economics research questions using a collaborative and multidisciplinary approach. MUCHE is affiliated with several other academic research centres, within and beyond Macquarie University, and collaborates on international

health economics projects with world leading research groups in the UK, Europe, and China. In 2024, staff continued evaluating applications for new listings on the Pharmaceutical Benefits Scheme and devices on the Medicare Benefits Schedule, on behalf of the Commonwealth Department of Health and Aged Care. Evaluations undertaken by MUCHE are relied upon to make new medicine listing decisions.

Our staff are members of various academic and governmental committees, including the National Suicide Prevention Office Expert Advisory Group, Research Australia Health Economics Roundtable, Sydney North HealthCARE Innovation Precinct Collaboration Committee, Shanghai Municipal Health Technology Assessment Centre Expert Committee, National Disability Insurance Agency (NDIA) Investment Effectiveness Program Academic Advisory Panel, and Australian Health Economics Society.

Further information on our research follows in the research stream highlights and is featured throughout this Annual Report.



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visit our webpage



Professor Henry Cutler



MUCHE partnered with the Black Dog Institute and Deakin University to successfully attract an NHMRC Synergy Grant worth \$5 million to explore the use of AI in the delivery of mental health treatments.



MUCHE hosted the 14th Meeting of the International Academy of Health Preference Research, one of the most prestigious conferences in the field.



MUCHE assessed the efficacy and cost of newborn bloodspot screening for X-linked adrenoleukodystrophy for the Commonwealth Department of Health and Aged Care.

MUCHE Streams of Research

AGED CARE

Professor Henry Cutler

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The Aged Care research stream explores ways to improve aged care policy and regulation in relation to quality of care, demand, supply, and pricing. This includes the use of sophisticated econometric techniques to measure the impact of policy change on the market, and the use of stated preference techniques to explore how older Australians and their carers make choices, including measuring which service attributes are valued most.

In 2024, the team completed an important research project that explored the relationship between regional spending on aged care and informal care supply. Led by Dr Anam Bilgrami and funded by a Macquarie University Fellowship, the research found a strong trade-off between the likelihood of being a primary informal caregiver — especially to someone living outside the household — and regional spending on in-home aged care services. However, there was no connection between informal caregiving and regional nursing home spending. This relationship varied depending on the characteristics of the informal caregiver and their location. The findings suggest that the recent shift in government policy toward funding more home care packages may have reduced the availability of informal care,

particularly among older caregivers and those not in the workforce.

This research was accepted and presented at prestigious international health economics conferences, such as the Empirical Health Economics Workshop and the American European Health Economics Study Group.

HEALTH PREFERENCE

Associate Professor Yuanyuan Gu

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The Health Preference research stream studies how patients, providers, and policymakers make decisions and what shapes their choices. Using tools like Discrete Choice Experiments (DCEs), this research stream examines why people choose specific treatments, how they use healthcare services, and what healthcare providers and policymakers prioritise. The goal is to improve health outcomes by developing strategies that make healthcare more effective, accessible, equitable, and valuable.

In 2024, the Health Preference Research team collaborated extensively with the Black Dog Institute, Cochlear Australia, University of Queensland, and Fudan University, China. Research topics included measuring user preferences for service models that link men into the healthcare system before a suicide attempt, creating an add-on to EQ-5D-5L to better capture health-related quality of life for

people with hearing impairment, and measuring the relative societal value of attributes within a value based healthcare system that can be used to inform resource allocation decisions by healthcare executives. Eight journal articles were published, including one in the esteemed journal *Social Science & Medicine*. The team also received Macquarie University's Faculty of Arts Research Engagement Award for leading a discrete choice experiment on 'Early Childhood Education Pay and Conditions'. Associate Professor Yuanyuan Gu was invited to lead the international Professional Society for Health Economics and Outcomes Research Good Practices Task Force on preference heterogeneity.

HEALTH TECHNOLOGY ASSESSMENT

Associate Professor Bonny Parkinson

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The Health Technology Assessment (HTA) research stream systematically evaluates evidence on the health and economic impact of health interventions. It aims to maximise population health given healthcare system resource constraints. We synthesise evidence and apply sophisticated economic models to generate evidence that can be used by policymakers to decide whether a health intervention is value for money. This research stream undertakes collaborative,

L-R Professor Henry Cutler, Associate Professor Jonas Fookien, Associate Professor Yuanyuan Gu, Associate Professor Bonny Parkinson



multidisciplinary projects with the Australian Government, healthcare organisations and leading researchers in a broad range of fields. It is responsible for the Macquarie University Evaluation Team, one of only eight university groups in Australia entrusted by the Commonwealth DoHAC to evaluate medicines for the PBAC.

In 2024, the team conducted nine evaluations for the PBAC, which recommends which medicines are publicly funded in Australia. The team also published five systematic reviews in *Nature Reviews Nephrology*, *Cancers*, *Breast*, *Advances in Therapy*, and *Global Health Research and Policy*, and analyses of PBAC recommendations in *PharmacoEconomics*, the impact of childhood cochlear implantation on carers' employment in *Ear and Hearing*, and indication-specific value-based pricing of multi-indication drugs in *Value in Health*. Associate Professor Bonny Parkinson was invited to present at the University of Oxford on hearing health economics research, and presented at the Australian Precision Oncology Symposium 2024 on health technology assessment in the era of precision oncology.

INTEGRATED CARE

Professor Henry Cutler

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The Integrated Care research stream explores ways to facilitate care being delivered through multidisciplinary teams within the healthcare system and across other sectors that impact health outcomes, such as education, housing and justice. We evaluate integrated care models for their effectiveness and value. We also investigate new ways of funding healthcare to contribute towards funding reform decisions, as government looks for better ways to remunerate clinicians and healthcare teams, and to extract more value from healthcare spending.

In 2024, MUCHE completed a multi-year national study on 'Getting more value from mental healthcare funding and investment' in Australia. Funded by the National Mental Health Commission, the team undertook a consultation of state, territory and federal government departments, agencies and mental health commissions, providers, academics, consumers and peak bodies. Thematic and schema analysis were employed to draw out five government recommendations to introduce value based payments into mental healthcare, and eight recommendations to design a more systematic, transparent, and evidence-based approach to government investment decisions

in mental healthcare. Another highlight for 2024 included Professor Cutler sitting on the DoHAC Expert Advisory Panel for the Review of General Practice Incentive Programs and the Review of Primary Care After Hours Programs. This Expert Advisory Panel delivered a final report to the Federal Government that focussed on current and future payments to general practice. It provided four recommendations to steer primary care funding away from MBS fee-for-service and towards more blended funding models that facilitate multidisciplinary teams and reward good care quality and improved health outcomes.

MENTAL HEALTH

Associate Professor Jonas Fookien

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The Mental Health research stream investigates how mental healthcare can be provided equitably and efficiently through new models of care, treatments, and funding systems. We study conceptual problems of particular importance in mental health, such as dealing with diagnostic and treatment uncertainty, social spillovers, and the effect of mental health on productivity. Research in the stream uses a range of quantitative methods to analyse clinical, administrative, experimental, and observational data to understand the determinants


of mental health. Its goal is to help define policies that improve mental health and economic outcomes.

In 2024, the team received a grant from the National Suicide Prevention Office to research place-based economic and social factors that predict suicide at a regional level across Australia. This research uses detailed individual-level administrative data covering almost the entire Australian population, providing information on economic participation, use of health and non-health services, social background, and health. In addition, the team started a five-year multi-university project funded by the NHMRC to explore mental health service

preferences, outcomes, value based payments and the impact of mental health on productivity using large linked government administration data. Dr Anam Bilgrami successfully won a three-year Macquarie University Research Fellowship to study preferences for mental health initiatives in schools. Associate Professor Fookien was an invited speaker at the University of Oxford, the University of New South Wales, and the Australian Health Economics Society Special Interest Group on Equity. Associate Professor Fookien also provided advice to NSW Health, the NSW Behavioural Insights Unit, and the Sydney North Healthcare Innovation Precinct.

MUCHE at the European Health Economics Association Conference.



A portrait of Associate Professor Bonny Parkinson, a woman with shoulder-length wavy blonde hair, smiling and wearing a blue turtleneck sweater with her arms crossed. The background is white with a dark red bar at the top and a red bar below the text.

We would like to express our sincere thanks to Associate Professor Bonny Parkinson for her outstanding service as Interim Deputy Director of MUCHE from January 2024 to January 2025.

During this period, Professor Cutler, Director of MUCHE, was on appointment as a Visiting Professor at the Nuffield Department of Population Health at the University of Oxford, UK.

Centre for Health Informatics

“Every year appears more challenging than the last for the healthcare system. Our job is to find ways for healthcare to rise to these challenges and deliver the best possible care, whatever the circumstances.”

— PROFESSOR ENRICO COIERA

Generative AI developments continue to send shock waves around the world. Although this technology is still flawed it is finding widespread use, including in healthcare. Researchers at the Centre for Health Informatics (CHI) continue to play a pivotal role in the national conversation on how best to take advantage of AI in building a better health system, and in navigating the challenges this brings.

There has been significant engagement with the National Policy Roadmap for AI in Healthcare. CHI researchers led the preparation of this key deliverable of the Australian Alliance for AI in Healthcare, and as a result have been heavily sought for their perspectives on the national adoption of AI.

The Senate Select Committee on Adopting AI invited Professor Coiera and Professor Farah Magrabi to present evidence on the best approaches to ensuring AI safety. The Federal Government invited CHI to facilitate the public consultation on AI, and CHI researchers have undertaken several consultations by invitation for the ACSQHC, and the DoHAC.

2024 saw the launch of the Fujitsu-Macquarie AI Research Lab, the only southern hemisphere university lab supported by Fujitsu International. CHI and Fujitsu researchers will explore the use of computer vision and large language models for the generation of personalised coaching content, to support health professionals across a range of applications.



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Further information on our research follows in the research stream highlights and is featured throughout this Annual Report.



Professor Enrico Coiera

CHI Streams of Research

AUSTRALIAN ALLIANCE FOR AI IN HEALTHCARE

Professor Enrico Coiera

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The Australian Alliance for AI in Healthcare is a multinational, broadly based group of experts guiding the safe and ethical use of AI in healthcare for Australia.

Since the launch of the Alliance-led National Policy Roadmap for AI in Healthcare at the end of 2023, the Alliance has been at the forefront of discussions. During 2024, this increased with several Federal Government initiatives inviting Alliance input.

Professor Coiera and the leadership of the Alliance were invited to participate in the Office of National Health and Medical Research Council workshop to consider opportunities and risks of the use of AI in NHMRC-funded research and translation.

The Alliance also organised a series of three very popular webinars for the DoHAC, facilitating public consultation on the Federal Government's initiatives regarding the safe and responsible use of AI in healthcare. Additionally, the Alliance submitted a response to the initiative directly to DoHAC.

At the invitation of the Senate Select Committee on Adopting AI, Professors Coiera and Magrabi contributed to the national debate and appeared before the public hearing in Canberra.

AI SYSTEMS SAFETY

Professor Farah Magrabi

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Ensuring AI-enabled healthcare is safe is a complex challenge, but getting it right is critical. Poorly designed, implemented, or misused AI can cause patient harm — even death.

Traditional safety evaluation methods are inadequate for AI, especially generative models like ChatGPT, which continuously adapt and learn. Without proper oversight, these systems pose unforeseen risks that current monitoring approaches cannot detect.

Led by Professor Magrabi, the AI Systems Safety research stream is pioneering new ways to assess and mitigate AI-related risks in healthcare.

Through cutting-edge research with health services, policymakers, industry, and consumers, we are transforming how AI safety is monitored, preventing harm, and building trust in AI-enabled health services — ensuring technology enhances, rather than endangers, patient care.

Highlights for 2024 include:

- Commissioned by the DoHAC to investigate barriers to AI adoption in Australian health services.
- Conducted a literature review and environmental scan to inform AI guidance being developed by the ACSQHC.

- Partnered with Alfred Health and the Digital Health CRC to identify and test a governance framework for AI in health services.

CLIMATE CHANGE AND DIGITAL HEALTH

Professor Enrico Coiera

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The Climate Change and Digital Health research stream focusses on digital solutions to support health consumers and health systems in responding and adapting to climate change triggered health challenges. It involves exploring lived experiences to understand specific needs and synthesising existing literature to identify gaps and guide the design and evaluation of effective digital interventions.

Highlights for 2024 include:

- Two articles published in *BMC Health Services Research* examined health system responses during COVID-19 to inform future climate crises responses.
- The team submitted an invited manuscript to the prestigious International Medical Informatics Association *Yearbook of Medical Informatics*.
- Ms Kalissa Brooke-Cowden was awarded an Australian Government Research Training Program Scholarship to support her PhD co-supervised by Professor Coiera and Dr Hania Rahimi-Ardabili.

L-R Professor Enrico Coiera, Professor Shlomo Berkovsky, Associate Professor Annie Lau, Dr Sidong Liu, Professor Farah Magrabi



- Dr Rahimi-Ardabili won the AIHI MD Supervision Excellence Award and achieved first place in the poster presentation at the Macquarie University Early Career Researcher (ECR) Symposium. She also received a Macquarie University ECR Enabling Scheme grant.
- The team collaborated on *BMJ* and *Nature Climate Change* publications and various conferences – exploring health system climate adaptation and mitigation strategies.
- A book chapter on digital health and climate change was published in the *Routledge Handbook of Climate Change and Health System Sustainability* edited by Professor Braithwaite, Professor Yvonne Zurynski, and Dr K-lynn Smith.

CONSUMER INFORMATICS

Associate Professor Annie Lau
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The Consumer Informatics research stream investigates the science, design, and impact of digital technologies for patients and consumers, seeking the consumer perspective when navigating an increasingly digitised healthcare system. We also co-design solutions to improve patient experience and health outcomes.

With strong industry connections leveraged to apply rigorous scientific methods to real-world problems,

the team endeavours to innovatively utilise digital health to consider the best outcomes for patients and consumers.

Highlights for 2024 include:

- Associate Professor Lau and Professor Reema Harrison completed a consultancy for NSW Health and were invited to present findings and recommendations to Deputy Secretaries and Executives across NSW Health agencies involved in state-wide virtual care programs.
- Team members performed exceptionally in Macquarie University ECR events.
- Saranjit Singh secured a Research Training Program and Macquarie University Research scholarship to commence a PhD with Associate Professor Lau and Dr Rezwanul Rana.

INTERACTIVE CLINICAL AI

Professor Shlomo Berkovsky
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The Interactive Clinical AI research stream focusses on the use of AI methods for developing accurate and usable decision-support tools for clinicians. The research of the stream covers three broad directions:

- Clinical AI addresses emerging approaches for personalised disease treatment and prevention, considering individual variability in genes, environment, or lifestyle.

- Human-technology interaction focusses on improving human (clinicians and patients alike) interactions with medical technologies and AI solutions.
- Clinical documentation processing aims to ascertain the applicability of Large Language Models for processing textual clinical documents, to ease the clinicians' burden and improve patient care.

Highlights for 2024 include:

- The team leads the work of the Fujitsu-Macquarie AI Research Lab, the first joint academia-industry lab of Fujitsu International in Australia.
- Professor Berkovsky is a chief investigator on an MRFF Genomics Futures grant: A National Platform for Evaluation and Integration of Advanced Analytics in the Diagnosis of Genetic Disease
- Publication: Gordon, E.H., Ward, D.D., Xiong, H., Berkovsky, S. and Hubbard, R.E., 2024. Delirium and incident dementia in hospital patients in New South Wales, Australia: retrospective cohort study. *BMJ*, 384.

TRANSLATIONAL AI FOR HEALTHCARE

Dr Sidong Liu

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The Translational AI for Healthcare research stream focusses on integrating AI into everyday healthcare practices to improve patient care. We aim to address the challenges in clinical decision making through AI, and tackle the practical difficulties of implementing AI, such as improving AI's performance across different settings.

By working closely with clinicians and healthcare experts, we co-design AI solutions that are not only innovative but also practical and aligned with the needs of the healthcare system.

Our research stream is committed to making AI a seamless part of healthcare, enhancing care quality,

efficiency, and accessibility for patients.

During 2024, the team made significant strides in addressing the critical need for improved cancer therapies.

With our clinical collaborators, we developed the first whole-slide multiplex immunofluorescence image analysis framework to predict immunotherapy responses in melanoma patients. We also pioneered the use of foundation models and novel prompt engineering techniques to predict disease-specific survival and treatment responses in rare, incurable tumours.

Supported by the MQ BioInnovation Scheme, we are advancing patient-derived 3D oncology models and AI-driven image analysis to facilitate real-time, personalised treatment decisions.



Professor Shlomo Berkovksy (second from right) and Honorary Associate Professor Shun Takeuchi (fourth from left) from AIHI with members of the Fujitsu-Macquarie AI Research Lab team, April 2024.

Centre for Health Systems and Safety Research

The Centre for Health Systems and Safety Research (CHSSR) undertakes research that delves into the human, organisational and technological systems required to produce safe and effective care in settings spanning hospitals to aged care and community care services. Our research designs and applies novel methods and tools to identify how these systems can be optimised to support health professionals and consumers.

Under the leadership of Professor Johanna Westbrook, CHSSR is addressing pivotal research questions concerning patient safety as it relates

to: the design, use, and outcomes of health information technologies; the development of tools and processes for engaging the full range of health consumers in their care; and the experience of health professionals and the systems and technologies required to support their work and wellbeing.

Our research, facilitated by the application of sophisticated multi-method evaluation models, furnishes high-quality evidence to guide decision making and drive transformative changes in healthcare policy and practice.

“Ever-increasing investment in technology and infrastructure is reaping benefits, providing safer and more effective care for patients. However, we must continue to be vigilant in the identification of gaps and errors that cause harm in hospitals and residential aged care facilities. The work of our passionate researchers is crucial to optimising the design of these technological systems to integrate effectively into clinical workflows that both enhance the experience of clinicians and safeguard our most vulnerable patients.”

— PROFESSOR JOHANNA WESTBROOK



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Further information on our research follows in the research stream highlights and is featured throughout this Annual Report.



Professor Johanna Westbrook

OUR WORK CONTINUES TO INFORM POLICY AND PRACTICE, INCLUDING:

- An NHMRC Investigator Grant to optimise and leverage technology to improve medication safety in hospitals and aged care.
- An MRFF Project to conduct an equity-focussed prospective evaluation of patient registration in Australia.
- An MRFF Project to pioneer co-created patient-reported experience measures for people with intellectual disability to improve health outcomes.
- An ARC Discovery Project to investigate consumer experiences and preferences for aged care through citizen science.
- An NHMRC Partnership Project to co-design, implement, and evaluate a National Aged Care Medication Roundtable underpinned by a learning health systems model.
- An NHMRC Partnership Project to establish a digital health foundation for outcomes-based diagnostic excellence, safety, and value.
- A Cancer Institute NSW Career Development Fellowship project to co-design quality end-of-life care for culturally and linguistically diverse people with cancer.
- An MRFF Project that leverages informatics to optimise pharmacist-led medication reviews in residential aged care settings.
- An NHMRC Partnership Project to explore virtual care integration in Australian health systems with a focus on achieving equitable health outcomes for diverse communities.
- An NHMRC Partnership Project to design and evaluate a predictive analytics dashboard to improve care monitoring and outcomes in residential aged care.

CHSSR Streams of Research

AGED CARE EVALUATION AND RESEARCH

Dr Nasir Wabe

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The goal of the Aged Care Evaluation and Research (ACER) team is to generate research evidence, and to develop and trial interventions that are translated to improve health and service delivery outcomes for people receiving residential or community aged care. There are four themes within ACER:

- Consumer-driven health services and informatics
- Geriatric pharmacoepidemiology and pharmacy informatics
- Predictive and prescriptive analytics
- Chronic disease care and healthy ageing

During 2024, we successfully piloted and launched a trial of MQ-Dash, a predictive analytics dashboard, across 20 facilities. This trial is generating evidence about implementation of digital interventions and their effects at scale in the aged care sector.

Twenty-six journal articles were published and 26 presentations delivered, including well-received MQ-Dash workshops at the Australian Association of Gerontology conference in Hobart, and at ISQua in Türkiye.

In other highlights, Dr Meulenbroeks' allied health policy brief was

published by the Deeble Institute of Health Policy Research, as part of her Fellowship. Dr Amy Nguyen secured innovation funding from Northern Sydney Local Health District and is an associate investigator on an AIHI led grant from the NHMRC European Union Collaborative Research Grants scheme.

DIAGNOSTIC INFORMATICS

Professor Andrew Georgiou

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Diagnostic informatics encompasses research across the diagnostic analytical process. This ranges from the clinical choice of a diagnostic request, the quality and efficiency of the analytical process, to the interpretation and follow-up of test results and their impact on patient care outcomes. The Diagnostic Informatics team is committed to generating quality evidence to enhance clinical excellence, patient safety and the value of care.

This involves an outcomes-based approach to diagnostic research; optimised clinical workflows, engagement, governance and accountability; shared decision-making and patient-centred care; and IT-enhanced decision support, data analytics and knowledge management systems.

We were invited to publish research on long COVID, funded by a DHCRC grant, in an *MJA* special issue. Our research was also featured in an *MJA Insight+* article and by SBS news.

We undertook a review for the ACSQHC to inform revision of national best practice requirements for performing point of care testing. Findings were also disseminated at the Health Services Research Association of Australia and New Zealand Conference.

We also commenced work on a large NHMRC Partnership Grant linking emergency, inpatient, laboratory and medications data from two local health districts.

HEALTH ANALYTICS AND PATIENT SAFETY

Professor Ling Li

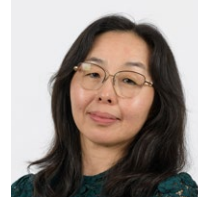
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Information and communication technologies play a significant role in improving the efficiency, effectiveness, and safety of the health system. These technologies continue to make inroads into healthcare at all levels, generating huge volumes of dynamic data from electronic health record systems. Health data analytics provides insights into these rich data.

The Health Analytics and Patient Safety research stream focusses on:

- Developing and applying rigorous research methods to evaluate the impact of eHealth interventions on patient safety and outcomes.
- Utilising rich dynamic electronic health record data to improve patient care delivery.

L-R Professor Johanna Westbrook, Professor Andrew Georgiou, Professor Reema Harrison, Professor Ling Li, Associate Professor Magda Raban, Dr Nasir Wabe



- Providing real-time information to support decisions and deliver actionable insights.

We published in high-impact journals throughout the year, highlighting the team's analytical contributions to medication safety research: 1) drug-drug interactions and actual harm, *Drug Safety*, 2) paediatric medication incident reporting, *BMJ Quality and Safety*, 3) age and medication error, *Journal of Paediatrics*. The first two papers were featured by the US Agency for Healthcare Research and Quality in their Patient Safety Network newsletter. The third was reported in US healthcare media.

The team continues to contribute to sepsis research, education, and awareness. Our media piece in Research Australia's *Inspire* magazine drew attention to paediatric sepsis.

HEALTHCARE ENGAGEMENT AND EQUITY RESEARCH

Professor Reema Harrison
reema.harrison@mq.edu.au

The Healthcare Engagement and Equity Research stream seeks to ensure healthcare staff and consumers are involved in decision making and care processes to improve quality of care and outcomes. Our inclusive participatory research methods seek to make sure every consumer voice is heard, particularly those who are seldom involved by health services.

During 2024, four resources have been co-produced with consumers and clinicians and are being tested throughout NSW and Victoria to improve care. These are:

- iCanPlan: An interprofessional education program to improve collaboration between cancer clinicians and interpreters in advance care planning.
- Listen to Me: A digital, patient reported experience measure (PREM) for people with intellectual disability.
- EngageEMR: An animated informational video about electronic medical records for multicultural consumers.
- Smarter Hospitals: Change Scorecard for NSW Health infrastructure.

MEDICATION SAFETY AND ELECTRONIC DECISION SUPPORT

Associate Professor Magda Raban
magda.raban@mq.edu.au

Medication errors and inappropriate medication therapy are a continuing challenge to the health system. The Medication Safety and Electronic Decision Support stream evaluates whether and how digital technology can reduce medication errors, support medication therapy decision making and improve patient outcomes.

We conduct our research across multiple care settings, including hospitals and residential aged

care. We apply mixed methods to understand technology impact, how it is used, and identify well-designed and poorly designed system features.

As a result of a collaborative project with BESTMED, a digital portal to support consumer engagement in medication management in aged care is now available to >1000 facilities nationally.

In another highlight, the Health Innovation Series, with 25 bulletins on e-medication safety, has been downloaded over 11,000 times across more than 80 countries.

Our work on medication errors due to the configuration and design of digital systems in hospital, attracted 12 news articles and a piece in *The Conversation* by Associate Professor Raban and Professor Westbrook titled 'Our study finds how often IT flaws lead to the wrong drug or dose'. An invited perspective article 'Using AI to improve medication safety' was published in *Nature Medicine*.

Professor Westbrook was awarded an NHMRC Leadership Fellowship to expand research on optimising and leveraging technology to improve medication safety.



Professor Johanna Westbrook (centre) is the Co-Director of the Safety, Quality and Informatics Leadership Program at Harvard Medical School.

This program trains over 100 senior healthcare professionals from around the world each year in quality, safety and informatics.

Professor Jeffrey Braithwaite also teaches into this international program.



Centre for Healthcare Resilience and Implementation Science

“Every year we sit down and think, what are the key questions we need answered? And then collectively, as a team, we work out ways to fund, research and respond to those key questions. In 2024, amongst other questions, we focussed our attention on climate change and human health, AI and its implications for healthcare and clinical practice, and how we provide better care, especially to children and ageing patients.”

— PROFESSOR JEFFREY BRAITHWAITE

At the Centre for Healthcare Resilience and Implementation Science (CHRIS), we take a multi-disciplinary approach to our work. We have people from over 30 countries researching a wide range of topics including climate change, cancer, aged care, mental health, resilience, genomics, emergency care, head injuries, hearing, patient safety and systems improvement.

Clinically trained research staff — doctors, nurses and allied health professionals such as physiotherapists, optometrists, and pharmacists — work shoulder-to-shoulder with social science and science trained staff including psychologists, sociologists, statisticians, data scientists, and engineers. Consumers, leaders and managers, policymakers, and

politicians are all engaged in studies with us, as are many partners across Australia’s jurisdictions and many international bodies including the UN, WHO, OECD, ISQua, and the Society for Organisational Behaviour in Health Care. All are contributing to our efforts to support global healthcare reform by generating research evidence to support better care.

We need this multidisciplinary focus because our work is multi-faceted. Our studies range across acute care settings, general practices, residential aged care, emergency departments and outpatient clinics. Our research is going on across the healthcare hierarchy — at the micro-level, on the front lines of care, but also at the meso- and macro-levels.



Scan the QR code to
visit our webpage

Further information on our research follows in the research stream highlights and is featured throughout this Annual Report.



Professor Jeffrey Braithwaite

CHRIS Streams of Research

COMPLEX SYSTEMS AND IMPLEMENTATION SCIENCE

Professor Jeffrey Braithwaite,
Associate Professor Louise Ellis,
Associate Professor Janet Long,
Dr Kate Churruca

jeffrey.braithwaite@mq.edu.au

The Complex Systems and Implementation Science research stream delivers new insights on the dynamic and complex nature of healthcare. It focusses on how different people (like patients, doctors, and governments) interact with each other and their environment (e.g., medical processes and technology). To improve care, we take a big-picture approach, considering the influence of organisational culture and context. We also look at how to implement best-practices and new treatments, in areas like genetic medicine and mental health.

Key projects include the MRFF grant on the implementation of genomic testing in primary health; an NHMRC-EU collaboration grant on building resilience in aged care staff; and N-PARTI, which is testing a rapid translational process to implement best-practice across several paediatric conditions in primary care. We also commenced evaluation of a new model of care in general practice in partnership with Medibank Private and Amplar Health. Work continued with the HCF grant on consensus-based pathways for patients undergoing common

surgeries (with Macquarie University Hospital); and data collection kicked off on the NHMRC-funded organisational culture in aged care project. In addition, research was undertaken in the fields of addiction medicine, implementation of liquid biopsy in cancer, resilience in hospital teams, and preventive care for people with intellectual disability.

Our research was well represented at numerous important conferences around the world, including the annual ISQua conference in Türkiye.

An additional cause for celebration was the awarding of doctorates to our candidates, Mary Simon and Olga Beliak.

HEALTH AND SOCIETAL OUTCOMES

Professor Rebecca Mitchell
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In the Health and Societal Outcomes research stream, we examine the incidence and burden of chronic disease and traumatic injury on the health system to determine priorities for preventive efforts. We conduct research in the health system and in the general population aimed at identifying where population health and societal outcomes could be enhanced.

During 2024, we examined:

- Potentially burdensome care at the end-of-life for cancer decedents, publishing our findings in *BMC Palliative Care* and delivering

a webinar in April on the study findings for Palliative Care Australia.

- The impact of COVID-19 public health restrictions on fall-related hip fracture hospitalisations in NSW, using an interrupted time series analysis and published our findings in *Bone*.
- The survival of patients who had cancer diagnosed through an emergency hospital admission using a retrospective matched case-comparison study in Australia and published our findings in *Cancer Epidemiology* and presented results at the World Congress of Epidemiology in South Africa.

HEALTH SYSTEM SUSTAINABILITY

Professor Yvonne Zurynski
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The Health System Sustainability research stream emerged after the conclusion of our large NHMRC Partnership Centre for Health System Sustainability. Building a health system to last is our continuing priority.

Our stream's research informed models of integrated care for Type-1 diabetes, liver cancer, and children living with medical complexity. Funded by the MRFF, the National Paediatric Applied Research Translation Initiative and other projects (HeartConnect and Strengthening Care for Children) built capacity for care integration.

L-R Professor Jeffrey Braithwaite, Professor Robyn Clay-Williams, Professor Peter Hibbert, Professor Rebecca Mitchell, Professor Yvonne Zurynski



Through the RuralKidsGPS project we bolstered paediatric care coordination services in rural NSW.

A focus on health workforce policy and planning and learning health systems is featured in a book *Organising the Health Care Workforce* (Palgrave Macmillan, 2025 in-press). Our collaboration with Kings College London is focussed on better embedding non-traditional health worker roles such as care coordinators, navigators and link workers.

Through the MRFF funded RAREST project – in partnership with Rare Voices Australia – we built capacity for better rare disease care and advocacy. We held three national interdisciplinary workshops and produced the *Taking Action Together Toolkit*.

Our work with the Australian Social Prescribing Institute for Research and Education (ASPIRE) continues to promote social prescribing in Australia.

Our research was showcased at four international conferences and in 24 peer-reviewed papers.

HUMAN FACTORS AND RESILIENCE

Professor Robyn Clay-Williams
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The Human Factors and Resilience stream focusses on creating health systems that are safe and meet the needs of patients and clinicians who treat them. Our team provides a vital contribution, nationally and internationally, to understanding how healthcare systems function, and how to make them safer for patients.

We continued to advance MyED, a large 5-year MRFF funded project working with consumers and clinicians to understand their needs and co-design new models of care that improve their outcomes and experience. The research is being conducted in NSW at Westmead, Blacktown, and Mount Druitt emergency departments where we completed Stage 1 data collection and analysis, including interviews with clinicians and epistemic experts, and interviews/focus groups with consumers with a disability or mental health condition. We also commenced Stage 2, completing four co-design workshops with consumers from culturally and linguistically diverse backgrounds, addressing communication and health system literacy needs. In a further milestone, we received ethics approval to establish the Aboriginal Reference Group.

INTERNATIONAL HEALTHCARE REFORM

Professor Jeffrey Braithwaite
jeffrey.braithwaite@mq.edu.au

Looking at how different countries execute their health reforms is the work of the International Healthcare Reform research stream. We have been studying reform efforts across the world—in low-, middle- and high-income health systems—for more than two decades. The question at the heart of our research is critical for countries and international agencies such as the WHO, UN and OECD: how can we contribute top-tier research evidence that countries, regardless of income levels, can use in their efforts to reform their own care system?

At the centre of this work are multiple articles in the international literature, and a widely used edited book series. Three books explore the reform activities of 152 diverse countries; another focusses on implementation science, and yet another on how countries are solving problems on a climate-pressurised planet.

Over 40 abstracts, posters, and talks were accepted from AIHI at ISQua's 40th annual conference. The event this year was held in Istanbul, Türkiye, on various aspects of systems improvement and healthcare reform. Of all international research groups, AIHI is consistently the largest contributor to this prestigious international conference.

LEARNING HEALTH SYSTEMS

**Professor Jeffrey Braithwaite,
Professor Yvonne Zurynski,
Associate Professor Louise Ellis**
jeffrey.braithwaite@mq.edu.au

Healthcare produces a lot of data. Bringing all this timely and relevant information together is the goal of our Learning Health Systems (LHS) research stream. The aim is to integrate data, clinical information, test results, genomics profiles, and patient histories with patient-reported outcomes, preferences, and experiences, placing these diverse datasets at the disposal of key healthcare decision makers — patients, clinicians, and policymakers, for example.

Our seminal white paper presented the case for building the “Learning Health System 2.0” — a learning health system that is increasingly better prepared for, and adaptive to, the pressures of future pandemics and climate change.

The team conducted several rapid reviews on key themes to understand how healthcare organisations can be strategically enabled to become next generation LHSs.

Working with international colleagues, our stream played an important role in the development of the International Network for Activating Learning Health Systems (INACT-LHS) Toolkit and accompanying website. We participated in the Toolkit launch and LHS workshops at the low-, middle-, and high-income country targeted ISQua conference in Türkiye. Stemming from our ongoing collaboration with Macquarie University General Practice, two additional papers on reinvigorating general practice as a LHS were published in the *British Journal of General Practice* and *BMC Primary Care*.

OBSERVATORY ON THE FUTURE OF HEALTHCARE

**Professor Jeffrey Braithwaite,
Professor Yvonne Zurynski,
Dr K-lynn Smith**
yvonne.zurynski@mq.edu.au

The effects of climate change through, for example, weather sequela, vector borne diseases, rising temperatures and increasing wildfires are undeniably impacting the health of populations and creating additional demands on already stretched healthcare systems and the workforce. At the same time, healthcare systems significantly contribute to greenhouse gas (GHG) emissions, accounting for 5-8% of all GHG emissions. We have published multiple papers analysing this complex bi-directional challenge where health systems must both adapt to, and mitigate, climate-related harm.

The Observatory on the Future of Healthcare (OFOH) works with partners nationally and internationally, including the OECD and ISQua to bolster system capacity to respond to this bi-directional challenge. Our work covers preparedness of health systems for climate change, effects on and resilience of the health workforce, and applying learning health systems approaches and health informatics solutions to inform mitigation strategies.

In a major effort at the intersection of climate, health system change and policy, we published *The Routledge Handbook of Climate Change and Health System Sustainability* (Routledge, 2024). In 2024, the OFOH published eight influential papers in high impact journals including *Nature Climate Change* and *The BMJ*.

We also put climate and health “front-and-centre” internationally by convening a Keynote Panel at the ISQua 2024 conference.

PATIENT SAFETY AND APPROPRIATENESS OF CARE

**Professor Peter Hibbert,
Professor Jeffrey Braithwaite**
peter.hibbert@mq.edu.au

The aim of the Patient Safety and Appropriateness of Care research stream is to research the level of evidence-based or best-practice healthcare that Australians receive. The team commenced data collection on a NHMRC Partnership Grant working together with our partners, the Clinical Excellence Commission NSW, Clinical Excellence Queensland, Safer Care Victoria, ACT Health, and the ACSQHC to develop and test evidence-based methods for healthcare organisations to improve and measure their response, analysis and learning from incidents, thereby reducing harm to patients. Data collection has included focus groups and interviews with staff, consumers, and international patient safety experts; and reviewing 300 serious patient safety investigation reports.

Professors Hibbert and Braithwaite taught for Harvard University, in the International Safety, Quality, Informatics and Leadership Program. Additionally, Professor Hibbert delivered 21 workshops and nine conference presentations across the year, including to the peak clinical safety and quality networks in NSW, Queensland, and Victoria.

The team worked with the Regional European Office of the WHO to inform healthcare performance frameworks and indicators for implementation in Greece.



Graduate research program

EMPOWERING OUR STUDENTS TO THRIVE

2024 HIGHLIGHTS



PhD

52 Candidates



MRes

13 Candidates

REAL WORLD LEARNING WITH PACE

The multi-award-winning Professional and Community Engagement (PACE) program at Macquarie University supports undergraduate students with authentic workplace experiences. Each year, AIHI hosts PACE students, placing them alongside academics and professional staff to participate in projects ranging from medical informatics to medication safety.

AIHI proudly offers two premier graduate research programs tailored for ambitious students. These programs provide a dynamic collaborative learning experience alongside world-renowned researchers. Our Institute stands at the forefront of health systems innovation, equipping students with exceptional supervision and responsive guidance. High calibre students are strongly encouraged to explore our scholarship opportunities. Every individual is fully supported by at least two dedicated supervisors throughout their program. Potential students are invited to explore detailed program information and discover inspiring profiles of our accomplished PhD and Masters graduates on our website.

MASTER OF RESEARCH (MRES)

The MRes program empowers candidates to explore their areas of interest deeply, establishing a robust foundation for future doctoral studies.

DOCTOR OF PHILOSOPHY (PHD)

The PhD program is a prestigious degree that recognises significant research accomplishments and showcases the student's ability to conduct independent research. The degree demands a unique contribution to the field of research, illustrating coherence and originality through the discovery of new facts or through independent critical thinking.

We are extremely proud of the outstanding candidates in our Graduate Research program and offer a special congratulations to the following who were awarded during 2024.



PhD

Olga Beliak
Qunfei Chen
Isabelle Meulenbroeks
Natália Ransolin
Mariam Safi

Brenton Sanderson
Tanja Schroeder
Mary Simons
Anindya Susanto
Maryam Vizheh



MRes

Shuk Tong



Maryam Vizheh was one of 10 AIHI students to graduate with a PhD from Macquarie University during 2024.



Doctor of Medicine research program

EQUIPPING THE CLINICIANS OF TOMORROW

LEADS

Professor Robyn Clay-Williams
Professor Veronica Preda

In an increasingly interconnected world, the need for medical professionals who are patient-centred, safety-focussed, culturally responsive, and skilled in digital health systems has never been greater. Macquarie University's Doctor of Medicine (MD) program addresses this demand by encouraging students

to expand their clinical knowledge and research skills. The program includes an 18 month research project, overseen by AIHI, during which students create a publication-ready manuscript and present their findings at a symposium-style forum. AIHI supported 63 MD students to successfully complete the MD Research Program in 2024.





Our staff

CELEBRATING OUR INDIVIDUAL AND COLLECTIVE EFFORT

AIHI wishes to express its gratitude to our outstanding staff for their steadfast dedication and significant contributions to the progression of healthcare research. This year has been incredibly fruitful, with each team member playing a pivotal role in developing innovative studies, nurturing partnerships, and making substantial progress in providing the research evidence to improve health systems around the world. The dedication, expertise, and collaborative spirit displayed by our team positions AIHI well for the future. AIHI consistently attracts highly skilled professionals from diverse fields, including clinicians, pharmacists, scientists, engineers, epidemiologists, statisticians, psychologists, economists, and analysts. Together, we form expert communities of practice, multidisciplinary research teams, and promote synergistic networking and co-authorship.

As a reflection of our culture of empowerment, we are very proud to report that in 2024, we have more females than males in senior academic positions at the Institute. Every promotion is a reason to celebrate, and we congratulate everyone who was promoted during 2024.

While nurturing our internal culture, we are also outward looking and each year come together to hold events raising awareness for UN International Women's Day, WHO World Patient Safety Day, and World Sepsis Day.





Professor Johanna Westbrook (centre) celebrates the academic promotions of (L-R) Professor Reema Harrison, Professor Robyn Clay-Williams, Associate Professor Annie Lau, and Associate Professor Bonny Parkinson.

Awards and recognition

HONOURING OUR TEAM FOR EXCELLENCE

IN NEW FELLOWSHIPS

Dr Anam Bilgrami was awarded the Macquarie University Research Fellowship for her project understanding high school mental health initiatives.

IN NEW APPOINTMENTS

Professor Jeffrey Braithwaite was appointed to the Board of the Australian Commission on Quality and Safety in Health Care.

Professor Henry Cutler was appointed a Visiting Fellow of the Nuffield Department of Population Health, Oxford University.

Associate Professor Bonny Parkinson was appointed Deputy Director of the Macquarie University Centre for the Health Economy.

Professor Peter Hibbert was invited to join the DoHAC's National Aged Care Mandatory Quality Indicator Program Technical Advisory Group.

IN PRIZES

Dr Ashfaq Chauhan received the 2024 NSW Premier's Award for Outstanding Cancer Research, Early Career Research Award. He also received the 2024 Health Services Research Association Australia and New Zealand New Investigator Award.

Dr Georgia Fisher and co-authors received the *BMJ Health and Care Informatics* Editor's Choice Award for the paper 'Barriers and facilitators to learning health systems in primary care: a framework analysis'.

Julie Li received the Branko Cesnik Award for Best Student Academic / Scientific Paper at the Health Innovation Community conference.

IN RECOGNITION

Corey Adams and Professor Reema Harrison were recognised by *Health Expectations* for their article 'The ultimate question? Evaluating the use of Net Promoter Score in healthcare: A systematic review' which was ranked by the journal in the top 10% of their papers downloaded in 2024.

Professors Enrico Coiera and Farah Magrabi were invited experts at the Senate Select Committee on Adopting AI.

Associate Professor Jonas Fookien was recognised by *The Australian's* 2025 Research Magazine as the top researcher in Game Theory and Decision Science.

Dr Rajendra Gyawali received the Brian Kirby Prize for Research Excellence in Optometry awarded from the University of New South Wales for the 'Doctoral student in optometry with the best thesis'.

Dr Natália Ransolin was awarded the Australia-Brazil Alumni Grant from the Australian Embassy in Brazil.

IN MACQUARIE UNIVERSITY AWARDS

Associate Professor Yuanyuan Gu was awarded the Faculty of Arts Research Engagement Award for his role in the Early Childhood Education and Care Pay and Conditions Research project

where he led the Discrete Choice Experiment study.

Kanesha Ward won the Macquarie round of the International Visualise Your Thesis competition; and achieved first place in the AIHI round of the University 3 Minute Thesis competition.

Dr Anindya Susanto won the People's Choice Award at the Macquarie round of the Visualise Your Thesis competition.

Julie Li won the People's Choice Award in the AIHI round of the 3 Minute Thesis competition.

AIHI performed strongly at the Faculty of Medicine, Health and Human Sciences EnCouRage Network Early Career Researcher symposium, with the following results:

Outstanding Publication Award – Dr Emilie Francis-Auton, for a paper published in *The Milbank Quarterly*

Poster Presentation Award – Dr Hania Rahimi Ardabili

Image Competition Award – Hoday Danaei Mehr

5-minute Oral Presentation winner (ECR) – Dr Tim Jackson

5-minute Oral Presentation winner (professional staff) – Shalini Wijekulasuriya

Spirit of EnCouRage, Faculty Citizen Award – Dr Samantha Spanos

Spirit of EnCouRage Unsung Hero Award – Dr Georgia Fisher



CONGRATULATIONS TO ALL THE WINNERS AND FINALISTS OF THE 5TH ANNUAL MACQUARIE UNIVERSITY WIDE EARLY CAREER RESEARCHER SHOWCASE (PICTURED HERE). THE QUALITY OF ALL PRESENTATIONS, ARTWORKS AND VIDEOS WAS EXCEPTIONAL AND HIGHLIGHTS THE EXEMPLARY STANDARD OF MACQUARIE'S RISING STARS. AIHI'S DR TIM JACKSON WON THE RESEARCH GALLERY AWARD AND THE IMPACT AWARD, WHILE DR FEI YANG WON THE RESEARCH REELS AWARD.

AIHI awards 2024



RESEARCHER OF THE YEAR

CHRIS

Professor Rebecca Mitchell

CHI

Dr Sidong Liu

CHSSR

Professor Reema Harrison

MUCHE

Associate Professor

Bonny Parkinson



PUBLICATION PRIZE

CHRIS

Associate Professor Janet Long

CHI

Dr Hao Xiong

Professor Shlomo Berkovsky

CHSSR

Dr Nasir Wabe

MUCHE

Dr Anam Bilgrami



RISING STAR

CHRIS

Dr Georgia Fisher

CHI

Dr Cong (Thomas) Cong

CHSSR

Dr Ashfaq Chauhan

MUCHE

Dr Rajan Sharma



STUDENT PRIZE

CHRIS

Sagda Osman

CHI

Kanesha Ward

Dr Anindya Susanto

CHSSR

Dr Isabelle Meulenbroeks

MUCHE

Qunfei Chen



PROFESSIONAL EXCELLENCE

CHRIS

Charli Molloy

CHI

Anastasia Chan

CHSSR

Ash Mathai

MUCHE

Kermeez Kiash

PROFESSIONAL EXCELLENCE IN MD RESEARCH PROJECT SUPERVISION

Dr Hania Rahimi Ardabili

INSTITUTE DIRECTORS' AWARD FOR CONTRIBUTIONS TO THE INSTITUTE

Kelly Smith

INSTITUTE DIRECTORS' AWARD FOR SERVICES TO THE INSTITUTE

Mary-Elizabeth Denmark

SPECIAL COMMENDATION – CELEBRATING 10 YEARS AT MACQUARIE UNIVERSITY

**Faculty of Medicine, Health and
Human Sciences**

SPECIAL COMMENDATION – CELEBRATING 10 YEARS AT MACQUARIE UNIVERSITY

Macquarie Business School

Symposia

SUPPORTING KNOWLEDGE EXCHANGE



Associate Professor Paige McDonald with Professor Jeffrey Braithwaite at AIHI Conversations.

AIHI recognises the importance of exchanging ideas, promoting innovative research, and endorsing calls to action that spark debate and contribute to the enhancement of health systems both in Australia and around the world. AIHI runs in-person seminars, known as AIHI Conversations, as well as the AIHI Webinar Series which have garnered international audiences, showcasing popular presentations by esteemed researchers and clinicians, and fostering a platform for valuable insights and discussion.



Scan the QR code
to visit our AIHI
YouTube channel

FROM THEORY TO POLICY IN RESILIENT HEALTHCARE

Professor Siri Wiig, Centre Director, SHARE, Centre for Resilience in Healthcare, University of Stavanger, Norway, discussed the importance of resilience in healthcare, including in aged care settings. The seminar covered findings from the Resilience in Healthcare research program and introduced the Support4Resilience project, funded by €6 million EU Horizon Grant, involving AIHI as the only participant outside of the EU.

TRANSLATION, IMPLEMENTATION, AND LEARNING IN HEALTH SYSTEMS: WHAT'S NEXT?

Associate Professor Paige McDonald, Vice Chair for the Department of Clinical Research and Leadership at George Washington University, USA, presented the University's PhD program in Translational Health Science, which emphasises translation to clinical practice and population health. Associate Professor McDonald highlighted the inspiration the program had drawn from AIHI's leadership in complexity science.

Associate Professor McDonald discussed how systems science, implementation science, and collaboration science had informed their interdisciplinary curriculum which is designed to promote knowledge translation and implementation in complex health systems.

EMPLOYER QUALITY, RESIDENTIAL AMENITIES AND SKILLED WORKER MOBILITY: EVIDENCE FROM HOSPITAL DOCTORS' LOCATION CHOICES

Dr Giuseppe Moscelli from the University of Surrey, UK, presented on how hospital doctors' job choices are influenced by employer quality and residential amenities. His study revealed that doctors prioritise better patient care and clinical excellence, along with good schools and lower crime rates, when relocating. Significant differences were found among age and gender subgroups.

SELECTED OTHER HIGHLIGHTS FROM 2024:

- Professor Helen Reddel, The Woolcock Institute of Medical Research: The challenges in changing 50-year-old assumptions about asthma treatment
- Professor Jill Maben OBE, University of Surrey, UK: Addressing unprofessional behaviour between healthcare staff: Evidence, recommendations, and next steps
- Dr Jonas Schreyögg, University of Hamburg, Germany: Country-level effects of diagnosis-related groups: Evidence from Germany's comprehensive reform of hospital payments
- Professor Anthony Scott, Monash Business School: The responses of doctors to a fall in demand for voluntary private health insurance

Publications

1 JANUARY TO 31 DECEMBER 2024

PUBLISHING IN THE HIGHEST-RANKING JOURNALS IN OUR FIELD

2	23	325	10	30	25	99
Edited books	Book chapters	Peer reviewed journal articles	Letters to the editor and editorials	Full conference papers	Commissioned reports	Other peer-reviewed outputs

EDITED BOOKS

1. Braithwaite, J, Zurynski, Y & Smith, CK (eds) 2024, Routledge Handbook of climate change and health system sustainability. Routledge, Taylor and Francis Group, Abingdon. <https://doi.org/10.4324/9781032701196>
2. Liu, S, Castillo-Olea, C & Berkovsky, S (eds) 2024, Advances in AI for health and medical applications. MDPI, Switzerland. <https://doi.org/10.3390/books978-3-7258-0368-2>

BOOK CHAPTERS

1. Austin, E 2024, Good work in the Emergency Department: a journey through discovery, design, and realisation. in S Pazell & J Boylan (eds), *Healthcare insights: the voice of the consumer, the provider, and the work design strategist*. Workplace Insights: Real-world Health, Safety, Wellbeing and Human Performance Cases, CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 196-208. <https://doi.org/10.1201/9781032711195-21>
2. Braithwaite, J 2024, Can we have a sustainable health system? in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 10-19. <https://doi.org/10.4324/9781032701196-3>
3. Braithwaite, J 2024, Creating sustainable healthcare systems to cope with a changing climate: the time is now. in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 432-435. <https://doi.org/10.4324/9781032701196-48>
4. Braithwaite, J 2024, The healthcare regulatory ecosystem. in J-C Le Coze & B Journé (eds), *The regulator-regulatee relationship in high-hazard industry sectors: new actors and new viewpoints in a conservative landscape*. SpringerBriefs in Applied Sciences and Technology, Springer Nature Switzerland AG, Switzerland, pp. 33-43. https://doi.org/10.1007/978-3-031-49570-0_4
5. Braithwaite, J, Churrua, K, Clay-Williams, R, Cutler, H, Ellis, LA, Long, JC, Mitchell, R, Mumford, V, Rapport, F, Simons, M & Zurynski, Y 2024, Health policy in Australia. in M Powell, TI Agartan & D Béland (eds), *Research Handbook on Health Care Policy*. Edward Elgar Publishing Ltd., Cheltenham, UK, pp. 347-373.
6. Braithwaite, J, Ellis, LA, Fisher, G, Smith, CK & Zurynski, Y 2024, Is the Learning Health System 2.0 (LHS 2.0) a solution to healthcare's climate challenges? in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 260-270. <https://doi.org/10.4324/9781032701196-31>
7. Braithwaite, J, Zurynski, Y & Smith, CK 2024, Bringing it together. in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 409-431. <https://doi.org/10.4324/9781032701196-47>
8. Braithwaite, J, Zurynski, Y & Smith, CK 2024, Creating climate-resilient, sustainable health systems: perspectives from health ministers. in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 20-23. <https://doi.org/10.4324/9781032701196-4>
9. Braithwaite, J, Zurynski, Y & Smith, CK 2024, How we got to here. in J Braithwaite, Y Zurynski & CK Smith (eds), *Routledge Handbook of climate change and health system sustainability*. Routledge, Taylor and Francis Group, Abingdon, pp. 3-9. <https://doi.org/10.4324/9781032701196-2>
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- improved family well-being and healthcare experience', National Rural Health Conference, Perth, Australia, 16/09/24 - 18/09/24.
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AIHI grants awarded or under management in 2024

NHMRC and MRFF Grants

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
The National Paediatric Applied Research Translation Initiative (N-PARTI)	Medical Research Future Fund	Braithwaite J Harrison R Mumford V Davis E de Wet C Homaira N Mitchell R Jaffe A Fisher G Willcock S	\$4,981,095
Working together: innovation to improve Emergency Department (ED) performance, and patient outcomes and experience for five complex consumer cohorts	Medical Research Future Fund	Clay-Williams R Braithwaite J Harrison R Zurynski Y Hibbert P Mitchell R Cutler H Vukasovic M Ali R Holt L	\$2,836,551
Delivering safe and effective medication management technology now and for the future	NHMRC Investigator Grant	Westbrook J	\$2,500,000
Improving the health system's response when patients are harmed: a mixed-methods study (Partners: CEC NSW, CE Qld, Safer Care Victoria, ACT Health, ACSQHC)	NHMRC Partnership Projects	Hibbert P Braithwaite J Westbrook J Magrabi F Mumford V Clay-Williams R Salmon P Middleton S Roberts CM	\$2,116,179
Optimising and leveraging technology to improve medication safety	NHMRC Investigator Grant	Westbrook J	\$2,000,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Embedding genomics in primary care: Using implementation science to design a robust national approach	Medical Research Future Fund	Braithwaite J Long J Best S Willcock S Archibald AD Cutler H Ferrie M Dive L Freeman L Trainer A	\$1,974,063
Smarter hospitals: Unlocking the promise of virtual models of care through infrastructure innovation in Australian healthcare facilities (Partners: Health Infrastructure, Western Health, Northern Health, Western NSW LHD, South Western Sydney LHD, Townsville)	NHMRC Partnership Projects	Harrison R Clay-Williams R Braithwaite J Westbrook J Taylor N Manias E Mitchell R Lawton R	\$1,876,987
A dashboard of predictive analytics and decision support to drive care quality and person-centred outcomes in aged care (Partners: Anglicare, Sydney North PHN, Deeble Institute for Health Policy Research, Northern Sydney LHD, Aged Care Quality and Safety)	NHMRC Partnership Projects	Westbrook J Georgiou A Lord S Gray L Day R Ratcliffe J Baysari M Braithwaite J	\$1,836,150
A National Aged Care Medication Roundtable - Translating aged care data into action to improve quality of care through collaboration and co-design (Partners: BaptistCare, Scalabrini, Anglicare, Australian Commission on Safety and Quality in Health Care)	NHMRC Partnership Projects	Westbrook J Gray L Bucknall T Etherton-Beer C Newell B Raban M Caughey G Beattie E Makeham M Braithwaite J	\$1,769,499
Bringing artificial intelligence into the real world of healthcare: the implementation challenge	NHMRC Investigator Grant	Coiera E	\$1,500,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Leveraging informatics to optimise pharmacist-led medication reviews in residential aged care to improve outcomes and cost-effectiveness: a pragmatic cluster randomised controlled trial	Medical Research Future Fund	Raban M Seaman K Cutler H Wabe N Westbrook J Saunders R Silva S Canale A Nguyen A Urwin R	\$1,479,329
Establishing a digital health foundation for outcomes-based diagnostic excellence, safety and value (Partners: Abbott Diagnostics, South Eastern Sydney Local Health District, NSW Health Pathology, Australian Commission on Safety and Quality in Health Care)	NHMRC Partnership Projects	Georgiou A Center J Westbrook J Rawlinson W Curtis K Post J Horvath A Hillman K Amin J Endre Z	\$1,377,501
Designing and implementing a real-world learning healthcare system: operational knowledge, data and practice for clinical microsystems of the 21st Century	NHMRC Investigator Grant	Braithwaite J	\$1,350,000
Transforming residential aged care through evidence-based informatics (Partners: BESTMED, Aged Care Industry Information Technology Council, Aged Care Quality and Safety Commission, Consumers Health Forum, Southern Cross Care, Bupa Aged Care)	Medical Research Future Fund	Westbrook J Raban M Manias E Cameron I Coiera E Bucknall T Etherton-Beer C Seaman K Zwar N Braithwaite J	\$1,052,386
Using AI to create smarter, personalised, and scalable interventions for psychological distress	NHMRC Synergy Grant	Christensen H Venkatesh S Cutler H Newby J Gupta S Whitton A Mitchell B O'Dea B	\$1,000,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
An equity-focus prospective evaluation of patient registration in Australia	Medical Research Future Fund	Harrison R Vagholkar S Mahadeva J Braithwaite J Westbrook J Mitchell R Manias E Cutler H Chauhan A Newman B	\$998,386
Pioneering co-created patient-reported experience measures for people with intellectual disability (Partners: Monash University)	Medical Research Future Fund	Harrison R	\$996,820
The Australian Consortium for Aged Care - Quality Measurement Toolbox (ACAC-QMET): Improving Quality of Care through Better Measurement and Evaluation	Medical Research Future Fund	Inacio M Gray L Westbrook J Caughey G Braithwaite J Hibbert P Comans T Crotty M Wesselingh S Sluggett J	\$655,400
Building a culture of safety in Australian residential aged care facilities	NHMRC Investigator Grant	Churruca K	\$650,740
A national platform for evaluation and integration of advanced analytics in the diagnosis of genetic disease	Medical Research Future Fund	MacArthur D Stark Z Coiera E Simons S Berkovsky S Sadedin S Vears D Wander J Lunke S Kassahn K	\$628,782
Strengthening resilience and mental wellbeing through the Support4Resilience toolbox for leaders in elderly care	NHMRC-EU Collaborative Research Grant Scheme	Ellis L Braithwaite J Clay-Williams R Gray L Bryant R Batterham P Wuthrich V Westbrook J Shand F Hibbert P	\$499,225

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
NINA: National Infrastructure for federated learNing in DigitAl health	Medical Research Future Fund	Sullivan C Thomas R de Jersey S Hocking J Luhovy M Jesuadian S Zhou R Turner M Lawley M Coiera E	\$278,786
Developing a Comprehensive Care Pathway for those at Risk of Suicide But Not in Care: The Under the Radar Project	Medical Research Future Fund	Christensen H Harvey S Carter G Venkatesh S Boydell K Cutler H Kneebone I Newton-John T Han J Huckvale K	\$275,000
P-OMICs-flow: Integrating precision oncology into clinical programs	Medical Research Future Fund	Taylor N Thomas D Tucker K Mallinger M Zaheed M Lin F Goldstein D Morrow A Leaney K Gough M Parkinson B Butow P Young J Middleton S Jeet V	\$266,033
Giving patients an EPIC-START: An evidence based, data driven model of care to improve patient care and efficiency in emergency departments	Medical Research Future Fund	Curtis K Dinh M Shetty A Fry M Shaw T Lung T Murphy M Li L Alkhouri H Considine J	\$263,998

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Targeted, Adaptive Genomics for ethical, evidence-based expansion of newborn screening: a type II hybrid effectiveness-implementation trial	Medical Research Future Fund	Taylor N Ungerer J Bauer D Parkinson B Jeet V Mazariego C Watts G Pang J Downie L Bennett G	\$262,221
Computational analysis and Artificial Intelligence in brain tumour imaging: towards the augmented diagnostics of the future	NHMRC Ideas Grant	Di Ieva A Song Y Liu S Magnussen J Liquet-Weiland B Sughrue M Rodriguez M Savage G	\$239,268
SENSECog aged care: Hearing and vision support to improve quality of life for people living with dementia in residential aged care	Medical Research Future Fund	Dawes P Westbrook J Martins R Martini A Keay L Leroi I Browning C Heine C Sohrabi H Gu Y	\$239,080
Scaling and piloting a genomic platform for population newborn screening	Medical Research Future Fund	Taylor N Ungerer J Parkinson B Mazariego C McGill B Jeet V Bauer D Wakefield C Shum B Watts G Peterson A Dobbins T Pang J	\$230,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Building on newborn hearing screening success: towards national standards and data management	NHMRC Targeted Call for Research	Sung V Beswick R Kelvin K Wake M Leigh G Ching T Kluk K Parkinson B King A Shepherd D	\$156,199
A Pragmatic Randomized Controlled Trial to Digitally Support Self-Management for Inhaler Device Technique and Medication Adherence among People with Chronic Obstructive Pulmonary Disease (COPD) and Comorbidities - The PRISIMA-PECO Trial	Medical Research Future Fund	Ansari S Hurst J Reddel H Zwar N Dennis S Halcomb E Sawan M Rhee J Joshi R Hosseinzadeh H Batterham M Jeet V	\$155,734
Centre for Research Excellence in Depression Treatment Precision (CORE-DEP)	NHMRC Centre for Research Excellence	Newby J Gupta S Whitton A Christensen H Ventakesh S Werner-Seidler A Mitchell B Cutler H Mouzakis K Birrell L	\$150,000
POPSTEM: Patient-specific cardiac stem cell villages for personalised therapeutic design	Medical Research Future Fund	Powell J Figtree G Neavin D Vandenberg J Hill A Inglis J Pebay A Contreras O Kolanowski J Hewitt A Jeet V Whan R	\$146,001

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Adherence in the air: CPAP adherence support programs dispensed in pharmacies providing sleep apnea services	Medical Research Future Fund	Saini B Bartlett D Wong K Nanayakkara B Ainge-Allen H Nissen L Sim T George J Gordon C Marshall N Sharma R Fookan J	\$136,268
Randomised controlled trial of screening patients with Schizophrenia for obstructive sleep apnea using in-laboratory polysomnography or 3-nights of home oximetry.	Medical Research Future Fund	Grunstein R Ellender C Marshall N Siskind D Sharma R Yee B Lappin J Fookan J Kairatis K Harris A Phillips C Lawn S Lambert T	\$126,535
Integrated Multimodal Precision Liquid biopsy to Enhance MELanoma and NSCLC Treatment (IMPLEMENT)	Medical Research Future Fund	Rizos H Gray E Lee J Long G Millard M Ellis L Coiera E Kao S	\$126,466
Optimising treatments in mental health using AI	Medical Research Future Fund	Christensen H Kummerfield S Kaplan W Venkatesh S Mouzakis K Vasa R Gupta S Rana S Tran T Quinn T Cutler H Knight R Lavery M	\$120,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
CRE in Interactive Digital Technology to Transform Australia's Chronic Disease Outcomes	NHMRC Centre for Research Excellence	Oldenburg B Maddison R Kostakos V Boyle D Borland R Lau A Furler J Scuffham P Abraham C Taylor C	\$115,000
The impact of COVID-19 and associated health policies on care quality and health outcomes in Australian residential aged care facilities	NHMRC PhD Scholarship	Meulenbroeks I	\$101,542
Understanding intergenerational change in the health and well-being of older adults and its effects: The Sydney Memory and Ageing Study 2.	NHMRC Clinical Trial Centre	Brodaty H Sachdev P Masters C Singh M Dobson A Schutte A Cutler H Brayne C Kochan N Numbers K	\$100,000
Delivering precision diagnosis to patients with mitochondrial disease: Using digital technologies to enhance the delivery pathway to provide an accurate genetic diagnosis for patients with mitochondrial disease	NHMRC Partnership Projects	Sue C Kummerfeld S Barlow-Stewart K Schofield D Coiera E Berkovsky S Davis R	\$99,386
When sporadic disease is not sporadic - exploiting cryptic relatedness to unravel MND genetics	NHMRC Ideas Grant	Williams K Henden L Berkovsky S Blair I Iacoangeli A Smith B Dobson-Stone C Kwok J Halliday G Nicholson G	\$96,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
A comparative effectiveness trial of digital mental health care models for adults with epilepsy	Medical Research Future Fund	Gandy M Dear B Titov N Kwan P Parratt K Payner G Karin E Cutler H Winton-Brown T Coleman H Jones M Nikpour A Todd L	\$85,000
Home hearing and vision care to improve quality of life for people with dementia and carers	Medical Research Future Fund	Dawes P Pachana N Leroi I Keay L Sohrabi H Gu Y Martini A Coleman M Meyer C Heine C Kumaran S Newall J Gannon B Lenzen S Lowthian J	\$85,000
BUBs Quit Study: clinical Midwife Specialist to assist pregnant women to quit smoking using counselling and embedded technology	NHMRC Partnership Projects	Richmond R Lingam R Henry A Kumar S Catling C Hartz D Thornton L Flenady V Dobbins T Sinha K Cutler H	\$83,609
Implementation and scale-up of a consumer co-designed physical activity promotion program for people with moderate-to-profound disabilities	Medical Research Future Fund	Trost S Tweedy S Hill J Clanchy K Beckman EM Gomersall S Fleming JM Cairney J Fookien J Dutia I	\$71,000

PROJECT TITLE	SCHEME	INVESTIGATORS	TOTAL FUNDING
Improving Mental Health and Social Participation Outcomes in Older Adults with Depression and Anxiety	NHMRC Investigator Grant	Rapee R Wuthrich V Draper B Brodaty H Cutler H Low L Georgio A Johnco C Jones M	\$59,000
Translating Evidence-Based Psychological Interventions for Older Adults with Depression and Anxiety into Public and Private Mental Health Settings Using a Stepped Care Framework	NHMRC Investigator Grant	Wuthrich V Rapee R Draper B Brodaty H Cuijpers P Cutler H Hobbs M Johnco C Jones M	\$57,000
Total funding from NHMRC and MRFF Grants			\$38,194,219

Non-NHMRC/MRFF Grants

Project Title	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Pharmaceutical Benefits Advisory Committee	Department of Health and Aged Care (Commonwealth)	Cutler H Parkinson B Rana R Sharma R Norman A Song R Stathis S Raichand S Islam R	\$4,244,588
Australian Type 1 Diabetes Clinical Research Network "Improving clinical outcomes in young people with T1D - getting evidence and treatments into practice"	Juvenile Diabetes Research Foundation	Jones T Davis E Bloom D Braithwaite J Zurynski Y	\$1,002,532

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Enhancing Human Reasoning with Generative AI: Personalized Digital Coach for Effective Feedback	Fujitsu Ltd	Berkovsky S Beheshti A Coiera E Suzuki G Takeuchi S Itani T Kurihara H Nakazato K Honda T Jiang S	\$947,367
Phase 2 - COVID-19: utilising near real-time electronic general practice data to establish effective care and best-practice policy	Digital Health CRC	Georgiou A Prgomet M Sezgin G Thomas J Hardie R Amin J McLeod A Proposch A Wilson J	\$843,817
APRICA - Accelerated Program of translational research in primary liver cancer	Cancer Institute NSW	George J McCaughan G Reddel R R Chant K Clarke SJ Liauw W Nagrial AM Agar M Zekry A Zurynski Y	\$800,000
Co-designing quality end of life care to culturally and linguistically diverse consumers in cancer services	Cancer Institute NSW	Harrison R	\$599,755
Proactive primary care project: Independent evaluation	Myhealth Management	Braithwaite J Ellis L Long J Pagano L Spanos S Fisher G	\$545,340
Consumer experiences and preferences for aged care through citizen science	Australian Research Council Discovery Project	Raban M Westbrook J Lau A Nguyen A	\$534,527

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Closing the vaccination gap: Achieving vaccination equity for vulnerable populations in regional primary care	Western Victoria Primary Health Network	Fisher G Braithwaite J Ellis L Churruca K Pagano L Spanos S	\$525,000
Luminesce Alliance Implementation and Economic Evaluation Platform providing enhanced access to child health services evaluation – PEACH-E	Sydney Children's Hospitals Network	Cutler H Rana R	\$362,614
MQ DVC(R) Co-funding: Building a culture of safety in Australian residential aged care facilities	Macquarie University	Churruca K	\$351,969
MQ DVC(R) Co-funding: Embedding genomics in primary care: Using implementation science to design a robust national approach	Macquarie University	Braithwaite J Long J Best S Willcock S Archibald AD Cutler H Ferrie M Dive L Freeman L Trainer A	\$350,599
Socioeconomic disadvantage, COVID symptom persistence and health-related quality of life EQ-5D: An analysis for India	EuroQol	Sinha K Gutacker N Gu Y Haagsma J	\$342,007
Evaluating the performance of a vision-based food intake logging app	NuviLab Inc	Berkovsky S Ong M	\$333,119
MQ DVC(R) Co-funding: Improving the health system's response when patients are harmed: a mixed-methods study	Macquarie University	Hibbert P Braithwaite J Westbrook J Magrabi F Mumford V Clay-Williams R Salmon P Middleton S Roberts CM	\$299,236

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
EQ-5D with the hearing "bolt-on" items: developing a new quality of life measure for hearing impairment	Cochlear Research Partnership	Gu Y Cutler H Parkinson B Sinha K Dawes P Sharma R Brinson M Gonzalo F Quadri H	\$299,030
A novel neuro-cardiac self-regulation therapy to improve autonomic and neural function after SCI: Clinical trials and translation to implementation	NSW Health	Craig A Middleton J Gopinath B Cameron I Davis G Tran Y Krassioukov A Braithwaite J Mitchell R Gustin S Stark Z de Jersey S	\$273,622
Predicting self-harm and suicide risk within Australian local government areas	Partner Funded Research	Cutler H Woodward A Bilgrami A Kalay AF	\$269,269
Evaluating Artificial Intelligence for chest radiograph interpretation in emergency medicine	Digital Health CRC	Magrabi F Coiera E	\$255,120
Longitudinal outcomes of hearing-impaired children: early vs later intervention	National Institutes of Health	Ching T Cupples L Leigh G Dillon H Parkinson B Wong C Sharma R	\$254,478
Codesign for better care of Australian adults living with Mito: The Mito-Plan Project	The Mito Foundation	Long J Pagano L Ellis L Zurynski Y Christodoulou J Braithwaite J	\$249,835
Economic evaluation of the LifeSpan project launched by the Black Dog Institute	Black Dog Institute	Cutler H Abiona O	\$243,660

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Towards new models of integrated primary care for Long COVID and other complex chronic health conditions	Department of Health and Aged Care (Commonwealth)	Clay-Williams R Hibbert P	\$225,600
Development of a novel digital clinical safety climate survey and improvement cycle for use in complex digital health settings	Digital Health CRC	Magrabi F Coiera E Irving V Ling J Blakely B	\$213,886
Rural Kids Guided Personalised Service (RuralKidsGPS): Care coordination for medically complex children in rural areas	HCF Research Foundation	Zurynski Y	\$200,632
MQ DVC(R) Co-funding: Transforming residential aged care through evidence-based informatics	Macquarie University	Westbrook J Raban M Manias E Cameron I Coiera E Bucknall T Etherton-Beer C Seaman K Zwar N Braithwaite J	\$198,477
Safe and responsible AI in health services	Digital Health CRC	Magrabi F Coiera E Win Yee Tan Harrer S McKimm A Potts E	\$191,286
MQ DVC(R) Co-funding: Establishing a digital health foundation for outcomes-based diagnostic excellence, safety and value	Macquarie University	Georgiou A Center J Westbrook J Rawlinson W Curtis K Post J Horvath A Hillman K Amin J Endre Z	\$187,564
Value based care in mental health	National Mental Health Commission	Cutler H Abiona O Bilgrami A Aghdaee M	\$187,357

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Communicating to promote engagement in using electronic medical records (AIHI Managed Funds)	Australian Research Council Discovery Project	Manias E Gray K Wickramasinghe N Harrison R	\$174,424
ARCHS: Adult Recipients of Cochlear implants: Health and Social long-term outcomes	Cochlear Ltd	Mitchell R Lystad R Boisvert I McMaugh A Moore R	\$174,300
ARCHS: Adult Recipients of Cochlear implants: Health and Social long-term outcomes	Macquarie University	Mitchell R Lystad R Boisvert I McMaugh A Moore R	\$174,300
Investigating the relationship between out-of-pocket costs, healthcare quality, experience and outcomes	Medibank Private Limited	Harrison R Mitchell R Braithwaite J Mumford V Hibbert P Westbrook J	\$173,000
MQ DVC(R) Co-funding: Optimising and leveraging technology to improve medication safety	Macquarie University	Westbrook J	\$160,000
Enhancing Human Reasoning with Generative AI: Personalized Digital Coach for Effective Feedback	Macquarie University	Berkovsky S Beheshti A Coiera E Suzuki G Takeuchi S Itani T Kurihara H Honda T Jiang S Sekiguchi M	\$156,734
Next Generation Artificial Intelligence-AI - Enabled Medical Technologies: From Diagnostics to Therapeutics	CSIRO	Vafae F Wilkins M Alinejad-Rokny H Berkovsky S Beydoun G Saber M Dinger M Coiera E Water S Razzak I	\$149,793

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Evaluating Artificial Intelligence-enabled clinical decision support (CDS) for a telephone helpline service and a consumer symptom checker	Healthdirect	Magrabi F Coiera E	\$122,960
MQ DVC(R) Co-funding: Bringing artificial intelligence into the real world of healthcare- the implementation challenge	Macquarie University	Coiera E	\$120,000
Data mapping in hospital databases	Evidentli	Berkovsky S Coiera E	\$115,000
Primary care screening tool to detect, prevent and treat health issues for older Australians	Ian Potter Foundation	Wuthrich V Johnco C Cutler H Willcock S Jones M	\$100,000
Medibank Private: Work. Reinvented. Project	Medibank Private Limited	Mitchell R Wood R Gu J Lin N Sinha K Wilden R Webster C Garcia P Trau R Lu C Yang M Gu Y Cheng Z	\$100,000
Usability and effectiveness of the NICU/ PICU version of the electronic Record for Intensive Care (eRIC)	eHealth NSW/Kids Critical Cancer Research	Raban M Westbrook J Wiggins M Harrison R Clay-Williams R	\$98,230
Single and Safe Intervention for MEDication administration (SaSI-MEDs): The development and evaluation of an intervention to de-implement unnecessary double-checking of medicines in hospital - Collaboration Agreement (AIHI funding)	National Institute for Health Research	Lawton R Fylan B Alldred D Bojke C Sheard L Pattison N Westbrook J Hewitt C Thompson H Foy R	\$97,453

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
MQ DVC(R) Co-funding: Smarter hospitals: Unlocking the promise of virtual models of care through infrastructure innovation in Australian healthcare facilities	Macquarie University	Harrison R Clay-Williams R Braithwaite J Westbrook J Taylor N Manias E Mitchell R Lawton R	\$94,571
Dynamics and inequality in mental health care use and expenditures after income shocks	Macquarie Business School and e61 Institute Research Partnership Scheme	Bilgrami A Best R Gu Y Bertoni M Tran M Saba N	\$94,517
Literature review and environmental scan for Artificial Intelligence in health care	Australian Commission on Safety and Quality in Health Care	Magrabi F	\$93,903
Evaluating the early initiation of Advanced Hybrid Closed Loop therapy in children and adolescents with a new diagnosis of Type 1 Diabetes	The Kids Research Institute Australia	Davis E Jones T Abraham M Taplin C Lomax K Zomer E Zurynski Y Carrigan A Zoungas S Cromb L	\$90,992
Cough Sound Assessment Using Deep Learning Techniques	Google Asia Pacific Pty Ltd	Sharan R	\$84,173
Bespoke Quantum Magnetoencephalography (MEG) Scanner Design and Development	Department of Industry, Science, Energy and Resources	Newport R Liu S Li E Di Ieva A	\$83,300
Updated list of validated patient-reported outcome measures	Australian Commission on Safety and Quality in Health Care	Ellis L Churrua K Fisher G	\$78,439
Research to measure variation in copayments for common medicines used to treat mental ill health across Australia	Partner Funded Research	Cutler H Fookien J Bilgrami A Saba N Gu Y	\$75,708

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
BCAL Diagnostics Limited	BCal Diagnostics Ltd	Berkovsky S Asbe N	\$66,529
Evaluation of Easycare Assisted-Living Technology	Easy Care Technology Pty Ltd	Lau A	\$65,000
Supporting dynamic multidimensional entrepreneurial resilience in Australia	Australian Research Council Discovery Project	Sinha K Magnani L Chirico F Gu Y Zhu R Green R	\$64,000
AUSMURI: Cohesive and Robust Human-Bot Cybersecurity Teams	Australian Defence Science and Technology	Rubenstein B Kaafar D Berkovsky S Brown S Eidels A Kostakos V Murray T Ohrimenko O	\$64,000
Harnessing Artificial Intelligence in the Australian health and aged care sector	Department of Health and Aged Care (Commonwealth)	Magrabi F Coiera E	\$63,241
Multimodal Precision Liquid Biopsy to Predict Risk of Melanoma Recurrence	U.S. Department of Defense	Rizos H Diefenbach R Coiera E Berkovsky S Long G Scolyer R Gray E Millard M	\$62,209
Ethical Artificial Intelligence in healthcare: frameworks and facilitators	Digital Health CRC	Magrabi F Lyell D	\$60,000
An overview of Australian Healthcare System and Regulatory Frameworks in the Biomedical Industry	Partner Funded Research	Yang M Gu Y Yu D Stathis S Lu C	\$58,640

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
MQ DVC(R) Co-funding: Improving the health system's response when patients are harmed : a mixed method funding	Macquarie University	Hibbert P Braithwaite J Westbrook J Magrabi F Mumford V Clay-Williams R Salmon P Middleton S Roberts CM	\$56,800
National Electronic Medication Chart Framework (NEMCF) Project	Australian Commission on Safety and Quality in Health Care	Raban M	\$56,092
The Australian Climate and Health Survey: Capturing the perceptions and experiences of the Australian public	Macquarie University	Braithwaite J Benson I Ellis L Churruca K Fisher G Pagano L Patel R Smith K-L Spanos S Tran Y	\$50,000
Constructing a systems perspective on alcohol and other drug addiction	Monash University	Long J Churruca K Ellis L Pagano L Sheriff S Schroeder T Braithwaite J Lubman D	\$50,000
Novel Informatics Approach for Automated Reporting of Aged Care Quality Measures: Towards A Unified Intelligent System	Macquarie University	Wabe N	\$49,988
Mitochondrial Disease Triage Tool	Kolling Institute	Berkovsky S	\$49,409
Survey on Safety Culture for Southern Adelaide Local Health Network	Southern Adelaide Local Health Network	Ellis L Hibbert P Falkland E Clark R Schultz T	\$49,230

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
How do aged care systems learn from quality indicators? The role of quality indicators in quality improvement	Macquarie University	Churruca K Nguyen A Ludlow K Sarkies M Ellis L Braithwaite J Westbrook J Wuthrich W	\$48,798
Advancing Melanoma Treatment: AI Predictive Model for Personalised Immunotherapy	Macquarie University	Rana P Liu S	\$48,612
MQ DVC(R) Co-funding: Computational analysis and Artificial Intelligence in brain tumour imaging: towards the augmented diagnostics of the future	Macquarie University	Di Ieva A Song Y Liu S Magnussen J Liquet-Weiland B Sughrue M Rodriguez M Savage G	\$47,854
Development of Audit Tools based on the Optimal Care Pathways for Multiple Myeloma and Chronic Lymphocytic Leukemia	Janssen-Cilag Pty Ltd	Chauhan A Harrison R Mitchell R Arnolda G Hibbert P Braithwaite J	\$46,500
Healthy ageing in Europe: Intrinsic Capacity Norms, Disparities and Digital Assessments	Partner Funded Research	Hanewald K Gu Y Beard J	\$45,843
Environmental scan of acute care safety and quality measurement frameworks.	Australian Commission on Safety and Quality in Health Care	Clay-Williams R Long J Cheek C Ellis L Austin E Richardson L	\$44,717
Safety assessment of an AI-based clinical decision support system	Healthdirect	Magrabi F	\$41,313
Primary Health Care Patient Safety Measurement	Australian Commission on Safety and Quality in Health Care	Ellis L Clay-Williams R Georgiou A Foo D Fisher G Saba M	\$39,134

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Rapid Literature Review: Point of Care Testing in Health Care	Australian Commission on Safety and Quality in Health Care	Prgomet M Thomas J Georgiou A Dimeski G Li J	\$38,518
MQ DVC(R) Co-funding: Enhancing Human Reasoning with Generative AI: Personalized Digital Coach for Effective Feedback	Macquarie University	Berkovsky S	\$36,000
Supporting materials for patient safety culture measurement: Parts A and B	Australian Commission on Safety and Quality in Health Care	Ellis L Tran Y Pomare C	\$35,800
Rapid review of the literature on paediatric end-of-life care	Australian Commission on Safety and Quality in Health Care	Lystad R Mitchell R Harrison R Arnolda G Cheek C Chauhan A Mears S Wijekulasuriya S Chitkara U	\$35,498
Evidence check: The anticipated impacts of climate change related factors on the NSW Health workforce	Sax Institute	Smith K Fisher G Ellis L Haywood P Abiona O Rana R Zuryski Y	\$35,000
Predicting Freezing of Gait in Parkinson's Disease Using Brainwaves	University of Sydney	Berkovsky S Sharan R	\$35,000
Preliminary technical process evaluation for Remote Patient Monitoring (RPM)	NSW Health	Lau A Jackson T Harrison R	\$34,668
Clinician Experience of Care for Leading Better Value Care Initiatives: Musculoskeletal (Osteoporosis re-fracture prevention (ORP) and Osteoarthritis chronic care program (OACCP))	Health System Support Group	Harrison R	\$28,500
Clinician Experience of Leading Better Value Care Cohorts: Musculoskeletal HRF, RSP, FiH	Health System Support Group	Harrison R Sina M Mitchell R Walsan R Ellis L	\$28,500

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Clinician Experience of Leading Better Value Care Initiatives: Muscular Skeletal (Osteo)	Health System Support Group	Harrison R Sina M Walsan R Ellis L Mitchell R	\$28,500
Co-creating safe spaces: Translational research on innovative alternatives to the emergency department for people experiencing emotional distress and/or suicidal crisis	Suicide Prevention Australia Ltd	Ellis L	\$27,623
Preliminary clinical process evaluation for Remote Patient Monitoring (RPM)	Health System Support Group	Harrison R	\$27,004
Telstra Health Consultancy	Telstra Health	Magrabi F	\$26,985
Psychometric properties and clinical usability of the SAS Mat: A novel assessment and treatment tool for tandem stance.	Macquarie University	Fisher G Scrivenor K	\$25,000
Establishing Safety and Quality Standards for Direct-To-Consumer Digital Clinics in Australia (EQUAL-DTC)	The Royal Australian College of General Practitioners Foundation Grant	Foo D Braithwaite J Ellis L Willcock S Hansra A	\$20,000
Applying Electronic Health Record Based Algorithm to Identify Sepsis Cases	Macquarie University	Li L	\$19,985
Clinician Experience of Care for the Southern NSW Virtual Rural Generalist Service (VRGS)	Health System Support Group	Harrison R	\$19,490
Work in heat and health - a toolbox for occupational studies in manual workers in LMIC countries	Partner Funded Research	Jakobsson K Adhikari S Koirala S Neupane D Sharma R Subedi M Wesseling C	\$17,200
Research plan for the validity and reliability testing of two patient safety culture surveys	Australian Commission on Safety and Quality in Health Care	Tran Y Ellis L	\$16,495
Cost effectiveness of Cochlear implants in Finland	Cochlear Research Partnership	Cutler H	\$15,000

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Early childhood education and care pay and conditions research	Partner Funded Research	Degotardi S Cumming T Brand N Thornwaite L Mitchell R Sinha K Gu J Gu Y	\$15,000
Strategies to address unprofessional behaviours among staff in acute healthcare settings: a realist review	National Institute for Health Research	Maben J Mannion R Jones A Westbrook J Pearson M Abrams R	\$11,120
2024 NSW Premier's Awards for Outstanding Cancer Research – Outstanding Early Career Researcher	Cancer Institute NSW	Chauhan A	\$10,000
NSW Premier's Awards for Outstanding Cancer Research – Improving Equitable Outcomes through Cancer Research Award	Cancer Institute NSW	Harrison R	\$10,000
Clinical Safety Management System (CSMS)	Australian Digital Health Agency	Magrabi F	\$9,515
Cost effectiveness of unilateral Cochlear implants in the US	Cochlear Research Partnership	Cutler H	\$9,000
An evaluation of full scope of practice physiotherapy-led assessment and management of paediatric orthopaedic variants	Department of Health QLD	Pendlebury E Thompson B Schultz C George J Fulton T Van Der Werff J Fookien J	\$9,000
Hide and seek with hereditary cancer: Improving detection of colorectal cancer patients with a high risk of Lynch syndrome	Cancer Council NSW	Taylor N Tucker K Macrae F Gill A Canfell K Pachter N Parkinson B Solomon M Shaw T Kench J	\$8,822

PROJECT TITLE	FUNDING BODY	INVESTIGATORS	TOTAL FUNDING
Forensic medical examination (FME) spaces for domestic, family and sexual violence (DFSV) victim survivors: Design principles to address social inequities	Department of Foreign Affairs and Trade	Ransolin N Clay-Williams R Cheek C Austin E Saurin T Richardson L Cossul D	\$7,273
MQ Postgraduate Research Funding	Macquarie University	Dominello A	\$6,000
MQ Postgraduate Research Fund	Macquarie University	Danaei Mehr H	\$6,000
Language Inclusion: Supporting people with intellectual disability and their carers from culturally and linguistically diverse backgrounds	NSW Council for Intellectual Disability	Chik A Orlando M Castle C Gu Y Ollerhead S Gorfinkel L Burridge A	\$5,411
Identification of built environment implications in emergency care responses through Human Factors and Ergonomics methods	Macquarie University Enterprise Partnership Scheme	Ransolin N Cheek C Clay-Williams R Wooler M	\$3,690
MQ ECR Enabling Scheme	Macquarie University	Rana P	\$3,000
MQ ECR Enabling Scheme	Macquarie University	Rahimi Ardabili H	\$3,000
Validation of a foundational model of the Emergency Department system	Macquarie University	Austin E	\$3,000
MQ ERC Enabling Scheme	Macquarie University	Jackson T	\$2,940
Shared Decision Making and Social Prescribing in GP Consultations: An observational Study	Macquarie University	Jackson T	\$2,000
2023 ECR Showcase	Macquarie University	Rana P	\$1,000
Total funding from Non-NHMRC/MRFF Grants			\$19,848,527

\$58,042,746

Total enterprise value of grants under AIHI management during 2024

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Glossary

FREQUENTLY USED TERMS

ACSQHC Australian Commission on Safety and Quality in Health Care

AI Artificial intelligence

AIHI Australian Institute of Health Innovation

CALD Culturally and linguistically diverse

CHI Centre for Health Informatics, AIHI

CHRIS Centre for Healthcare Resilience and Implementation Science, AIHI

CHSSR Centre for Health Systems and Safety Research, AIHI

DHCRC Digital Health Cooperative Research Centre

DoHAC Commonwealth Department of Health and Aged Care

ED Emergency department

EHR Electronic health records

EU European Union

FMHHS Faculty of Medicine, Health and Human Sciences

IHACPA Independent Health and Aged Care Pricing Authority

ISQua International Society for Quality in Health Care

JAMIA Journal of the American Medical Informatics Association

MD Medical Doctor

MPhil Master of Philosophy

MQ Macquarie University

MRes Master of Research

MRFF Medical Research Future Fund

MSAC Medical Services Advisory Committee

MUCHE Macquarie University Centre for the Health Economy, AIHI

NHMRC National Health and Medical Research Council

NSW New South Wales, Australia

OECD Organisation for Economic Co-operation and Development

PACE Professional and community engagement student placement program

PBAC Pharmaceutical Benefits Advisory Committee

PBS Pharmaceutical Benefits Scheme

PhD Doctor of Philosophy

RACGP Royal Australian College of General Practitioners

RACP Royal Australasian College of Physicians

WHO World Health Organisation



A strong delegation of researchers from AIHI attended the International Society for Quality in Health Care conference in Türkiye in 2024 contributing keynotes, workshops and other presentations.

ACKNOWLEDGEMENT OF COUNTRY

The Australian Institute of Health Innovation acknowledges the traditional custodians of the country on which we work and recognise that their cultures and customs have nurtured and continue to nurture this land. We pay our respects to Elders past, present and emerging.

PHOTOS

Adobe Stock, Jesse Taylor, Charlie Clay



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