AEA
Australasian
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Association

Annual Scientific Meeting 2025

Embracing change: epidemiological methods for the future

Wednesday 16 to Friday 18 July 2025

Hotel Grand Chancellor Hobart, TAS

#AEA2025

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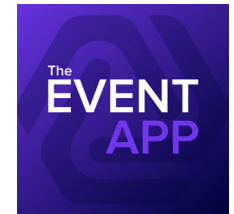**Australian Government**
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CONFERENCE APP

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WELCOME

Dear Colleagues,

On behalf of the Local and Scientific Organising Committees, we welcome you to the 2025 Annual Scientific Meeting of the Australasian Epidemiological Association.

We pay our respects to the original custodians of the land where we are meeting, the Muwinina and Mumirimina people, who did not survive British colonialisation. We acknowledge the Tasmanian Aboriginal community as the continuing custodians of Lutruwita (Tasmania) and honour Aboriginal Elders past and present.

The theme of the 2025 Annual Scientific Meeting is "Embracing change: epidemiological methods for the future". Epidemiology is evolving rapidly with technological advancements. Artificial intelligence is revolutionising disease prediction, outbreak detection, and pattern analysis. The Internet of Things is enhancing cohort studies by collecting real-time health data through wearable devices, improving research precision and scope. Real-time surveillance systems now enable swift monitoring of disease spread and environmental health risks, enabling earlier intervention.

With these advancements come new and emerging ethical considerations, including privacy, consent and equitable access to healthcare advancements. The epidemiological community must ensure that we are training future epidemiologists with the skills necessary to navigate the digital transformation of public health.

We have an exciting programme featuring internationally renowned keynote speakers, three pre-conference workshops, 16 concurrent sessions reflecting the breadth of epidemiological research and practice, two poster sessions, an early career breakfast session and an early career workshop.

We hope that you enjoy the programme, and the hospitality that Hobart is famous for.

With best wishes,

Assoc. Prof. Brigid Lynch and Dr Brooklyn Fraser
Co-convenors of the 2025 AEA Annual Scientific Meeting

Assoc. Prof. Brigid Lynch
Cancer Epidemiology Division
Cancer Council Victoria

Dr Brooklyn Fraser
Menzies Institute for Medical Research
University of Tasmania

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POSTERA CRESCAM LAUDE

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CONFERENCE ORGANISATION

CONFERENCE ORGANISING COMMITTEE

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ABSTRACT REVIEWERS

The Australasian Epidemiological Association (AEA) would like to acknowledge and thank the abstract reviewers who volunteered their time for the conference:

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ABOUT THE CONFERENCE

The AEA Scientific Meeting will explore the intersection of traditional epidemiology with the opportunities and challenges presented by digital transformation. Key themes will address the following:

- Artificial Intelligence in epidemiology
- The internet of things and cohort studies
- Realtime surveillance and monitoring
- Data privacy and ethics
- Capacity building and training for the future

The conference will feature expert national and international speakers presenting under this theme. It will also highlight epidemiological investigations undertaken across a range of settings including academic, government and non-government organisations.

GENERAL INFORMATION

REGISTRATION DESK

If you require help, please see the staff at the registration desk, or email the events secretariat at events@phaa.net.au and we will do everything we can to assist you with your enquiry.

HOTEL GRAND CHANCELLOR, HOBART

Conference venue
A: 1 Davey Street, Hobart
T: 03 6235 4535

ACCOMMODATION CONTACT DETAILS

Hotel Grand Chancellor (conference venue)
A: 1 Davey Street, Hobart
T: 03 6235 4535

The Old Woolstore Appartment Hotel
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If you book the Hotel Grand Chancellor Hobart using a third party website like booking.com, you will not have access to the discounted rate. The discount is only available using the link on the conference website. Alternatively, delegates can call the hotel directly on (03) 6235 4535 and quote the conference name and the staff will book you in directly.

CONFERENCE WIFI

The Grand Chancellor has complimentary WiFi available. No password is requried to access. Access details will be provided at the registration desk.

CONFERENCE CATERING

Morning/afternoon teas and lunch will be served in the exhibition area in the Mezzanine Foyer during the Conference. Dietaries will be available on a separate table during the breaks.

PRESENTATIONS

Please be aware that while session chairs will do their best to keep speakers to time to allow delegates to move between sessions, we cannot guarantee the exact timing of each talk. Please be mindful when entering sessions to minimise disturbance to presenters.

POSTERS

Note that there will be 2 Poster Sessions. Poster Session 1 will be held during the Welcome Reception from 6pm-7pm, Tuesday 16 July. Poster Session 2 will be held during the lunch break (12pm - 1.00pm) on Thursday 17 July.

ABSTRACT BOOK

The 2025 Abstract Book is available to view and download from the AEA Annual Scientific Meeting 2025 website: https://www.aea2025.com/program or view abstracts via the Conference App.

SOCIAL MEDIA

We highly encourage you to share your thoughts and experiences while at the Conference, so if you're on BlueSky or LinkedIn, join the conversation using **#AEA2025**. Please feel free to tag AEA using @AustralasianEpi

EVALUATIONS

A Conference evaluation form will be sent to all delegates by email following the conclusion of the Conference.

IAN PRIOR ORATION

DR IAN PRIOR

ABOUT THE ORATION

Dr Ian Prior, born in Masterson, New Zealand, graduated from the Otago University Medical School in 1945 and pursued post-graduate training in cardiology at the National Heart Hospital in London and as a Fulbright scholar at Peter Brigham Hospital in Boston.

Dr Prior's epidemiological research focused on social and environmental factors affecting population and individual risk for cardiovascular disease, primarily within European and Polynesian populations in the South Pacific.

Returning to New Zealand in 1959, Dr Prior became the Director of the Medical Unit at Wellington Hospital and established the Epidemiology Unit in the early 1960s. For the next three decades, he launched ambitious population studies in New Zealand, the Cook Islands, and Tokelau Island, focusing particularly on the effects of migration and environmental changes on chronic diseases in Polynesian populations.

Dr Prior's interest in global health and policy found an outlet as a founding member of the New Zealand branch of International Physicians for the Prevention of Nuclear War, the same organization that received the Nobel Peace Prize in 1985. Dr Prior was an Honorary Fellow of the Department of Health within Wellington Hospital and an avid supporter of the Wellington Sculpture Trust, which he and his late wife Elespie helped establish in 1982.

2025 ORATION

Oration: 'Modern epidemiology - the science of public health and beyond'

Modern epidemiology retains a central role in the modern world, not only as the science of public health but a discipline that can advance our understanding of molecular disease causation and how at the population level, we can best defect, evaluate and contribute to global threat solutions.

I review some of the experiences and insight gained over my career highlighting work in a primary and secondary disease prevention, particularly work originating in Tasmania on sudden infant death syndrome and multiple sclerosis. I also outline my more recent work including casual disease pathways and the assessment of pollution health impacts in early life.

2025 IAN PRIOR ORATOR

Presenter: Prof. Anne-Louise Ponsonby (B Med Sci, MBBS, PhD, FAFPHM, FAFHMS, RACP)

Professor Anne-Louise Ponsonby (B Med Sci, MBBS, PhD, FAFPHM, FAFHMS, RACP) is an NHMRC Senior Leadership Fellow and is the Division Head for the Early Brain Division and Research Group Head of the Neuroepidemiology Group at the Florey Institute for Neuroscience and Mental Health. Ponsonby is also an Honorary Professor in the Molecular Epidemiology group at the Murdoch Children's Research Institute, Royal Children's Hospital, University of Melbourne. As an epidemiologist and public health physician, Ponsonby has extensive experience in the design, conduct, and analysis of birth cohorts, trials, and other studies. She is a co PI of a large birth cohort of over 10,000 infants that generated knowledge leading to a decline in sudden infant death syndrome (SIDS) incidence. In Australia, SIDS deaths declined by 80%; from 1.9 per 1,000 live births in 1990 to 0.2 live births in 2012 (Australian Bureau of Statistics 2013). More recently, Ponsonby's work has led to expertise in combining population epidemiologic and biostatistical approaches with system biology, with publications on the content and process of that important interface. Ponsonby also works across a range of diseases including multiple sclerosis and food allergy.

KEYNOTE SPEAKERS

Dr Matthew Fox
Professor, Departments of Epidemiology and
Global Health, Boston University

Matthew Fox, DSc, MPH, is a Professor in the Departments of Epidemiology and Global Health at Boston University. Dr. Fox joined Boston University in 1999. His research interests include treatment outcomes in HIV-treatment programs, infectious disease epidemiology (with specific interests in HIV and pneumonia), and epidemiologic methods. Dr. Fox works on ways to improve retention in HIV-care programs in South Africa from the time of testing HIV-positive through long-term treatment. As part of this work, he is involved in analyses to assess the impact of changes in South Africa's National Treatment Guidelines for HIV. Dr. Fox also does research on quantitative bias analysis and co-authored a book on these methods, Applying Quantitative Bias Analysis to Epidemiologic Data (http://www.springer.com/public+health/book/978-0-387-87960-4). He is also the host of a public health journal club podcast called Free Associations designed to help people stay current in the public health literature and think critically about the quality of research studies (https://bit.ly/30fPApj) and a podcast on Epidemiologic Methods called SERious Epi (https://seriousepi.blubrry.net/). He currently teaches a third-level epidemiologic methods class, Advanced Epidemiology as well as two other doctoral level epidemiologic methods courses. Dr. Fox is a graduate of the Boston University School of Public Health with a master's degree in epidemiology and biostatistics and a doctorate in epidemiology.Boston University School of Public Health with a master's degree in epidemiology and biostatistics and a doctorate in epidemiology.

Prof. Angela Ballantyne
Professor of Bioethics
University of Otago

Angela Ballantyne teaches medical ethics at the University of Otago, Wellington. Her research interests include research with human subjects, justice, vulnerability, reproductive technologies, and data ethics. She has served on national expert committees for covid immunisation policy and research ethics review and is currently on the National AI and Algorithm Expert Advisory Group and the Ethics Committee on Assisted Reproductive Technologies in Aotearoa New Zealand. She has been President of the International Association of Bioethics; has worked in global health policy and ethics at the World Health Organization in Geneva, and is a regular Visiting Scholar at Yale University and the National University of Singapore.

Prof. Paul Kelly
Former Chief Medical Officer and Head of
Interim Australian Centre for Disease Control

Professor Paul Kelly is currently the Chief Medical Officer and Head of Interim Australian Centre for Disease Control at the Australian Government Department of Health and Aged Care. A public health physician and epidemiologist by training, Professor Kelly was the principal medical advisor to the Australian Government during the COVID-19 pandemic. Professor Kelly has previously worked in research, health systems development, post-graduate teaching and as a health service executive at local, state and national level in Australia, Malawi, Indonesia, East Timor and the UK. Professor Kelly has over 30 years research experience and has published over 200 journal articles, book chapters and public health guidelines. He has supervised or mentored many trainees and post-graduate students and delivered lectures, workshops, seminars and conference talks in Australia and internationally on a range of health-related topics.

Prof. Tony Blakely

Director, Population Interventions (PI) Unit, Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health

Tony is an epidemiologist and public health medicine specialist. He is committed to answering questions about which public health interventions will achieve the greatest improvements in health and social outcomes, reduce inequalities in health, and do so cost-effectively. His research covers a range of topic areas, intersected with methodological advancements. Whilst principally an epidemiologist, he uses and combines methods from multiple disciplines: biostatistics, economics, econometrics, and computer and data science. Tony is Director of the Population Interventions (PI) Unit within the Centre for Epidemiology and Biostatistics at the Melbourne School of Population and Global Health. PI aims to: "provide robust evidence on the health and cost impacts of population interventions, through causal inference and simulation approaches from epidemiology, economics and data science." As part of the PI Unit, Tony is leading the Scalable Health Intervention Evaluation program - SHINE - which is a data science and simulation platform to rapidly estimate health, health inequality, cost and productivity impacts of virtually any preventive intervention, in any country. Tony moved to Australia, and the University of Melbourne, in 2019. From 1998 to 2018 he was based at the University of Otago, Wellington New Zealand. From 2023 to 2024 Tony is Chair of the New Zealand Royal Commission on COVID-19 Lessons Learned.

Dr Alpa Patel

Senior Vice President, Population Science, American Cancer Society

Dr. Alpa V. Patel earned her Bachelor of Science from the University of Florida, her Master of Public Health in Epidemiology from the Rollins School of Public Health at Emory University, and her Doctoral degree in Preventive Medicine with a concentration in Epidemiology from the Keck School of Medicine at the University of Southern California. She has been with the American Cancer Society for more than 25 years and is the Senior Vice President of Population Science at the American Cancer Society where she oversees a team of approximately 55 research and study operations staff. She serves as the principal investigator of the Cancer Prevention Studies (CPS) II and 3 that are long-term, large-scale, epidemiologic cohort studies established by the American Cancer Society. Combined, these two cohorts include over 1.5 million participants with a variety of over 400,000 biologic samples (such as blood, buccal cells, saliva, stool, and tumor tissue). Recently, as the co-Principal Investigator, Dr. Patel and team launched the largest ever cancer cohort of Black women in the U.S. aimed to enroll at least 100,000 Black women to understand the multi-level drivers of cancer risk and outcomes in this population. Dr. Patel is a recognized leader in cancer epidemiology with particular emphases on the role of physical inactivity, obesity, sedentary behavior and cancer as well as blood-based markers of cancer detection. She serves on the National Cancer Institute's Board of Scientific Counselors along with several other national and international scientific advisory committees. She has published over 250 scientific articles and book chapters, and her research has contributed significantly to national and international cancer prevention guidelines, such as the US Physical Activity Guidelines for Health and the American Cancer Society's Nutrition and Physical Activity Guidelines for both cancer prevention and cancer survivorship.

KEYNOTE SPEAKERS

Dr Stacey Rowe
Infectious Diseases Epidemiologist, Kaiser Permanente Southern California, Monash University

Dr Stacey Rowe is an infectious diseases epidemiologist, a Managerial Consultant at Kaiser Permanente Southern California Department of Research and Evaluation (United States), and a Consultant Epidemiologist at Monash University (Australia).

Dr Rowe is a recognised subject matter expert relating to public health surveillance, systems strengthening for public health intelligence generation, and advanced epidemiological analyses using real-world data. She has more than 15 years' experience in overseeing population-wide communicable disease surveillance and epidemiology programs in Victoria, Australia. Between 2020 and 2023, Dr Rowe was Director, COVID-19 Data and Intelligence at the Victorian State Government Department of Health where she oversaw the development and implementation of several specialised surveillance systems, epidemiological reporting products, and data modernization projects. She completed her PhD with Monash University in 2023, which focused on the use of linked data to support communicable surveillance and control.

Dr Rowe is currently a lead contributor to a research program examining the uptake, safety and effectiveness of COVID-19 vaccines during pregnancy; and providing epidemiological and biostatistical services for a cluster randomised control trial assessing innovative water-sensitive public health interventions in informal settlements of Fiji and Indonesia.

Assoc. Prof. David Muscatello
Associate Professor in Infectious Diseases Epidemiology, University of New South Wales

David Muscatello is an Associate Professor in infectious diseases epidemiology. He has a PhD in the epidemiology of pandemic and seasonal influenza. He also has many years' experience in government as an epidemiologist specialising in acute disease surveillance using administrative databases and linked data, public health intelligence and biostatistics including time series analysis. He served in the New South Wales government response to both the COVID-19 and 2009 influenza pandemics and has served on the Australian National Influenza Surveillance Committee. David is also a graduate of the New South Wales Public Health Officer Training Program and has supervised and trained numerous Public Health Officer and Biostatistical trainees. He is particularly interested in the use of time series analysis for estimating mortality and morbidity from infectious and other diseases and for assessing the impact of health policies on populations. He contributes to the World Health Organization's (WHO) activities for pandemic severity assessment and estimating the global burden of deaths and hospitalisations attributable to influenza.

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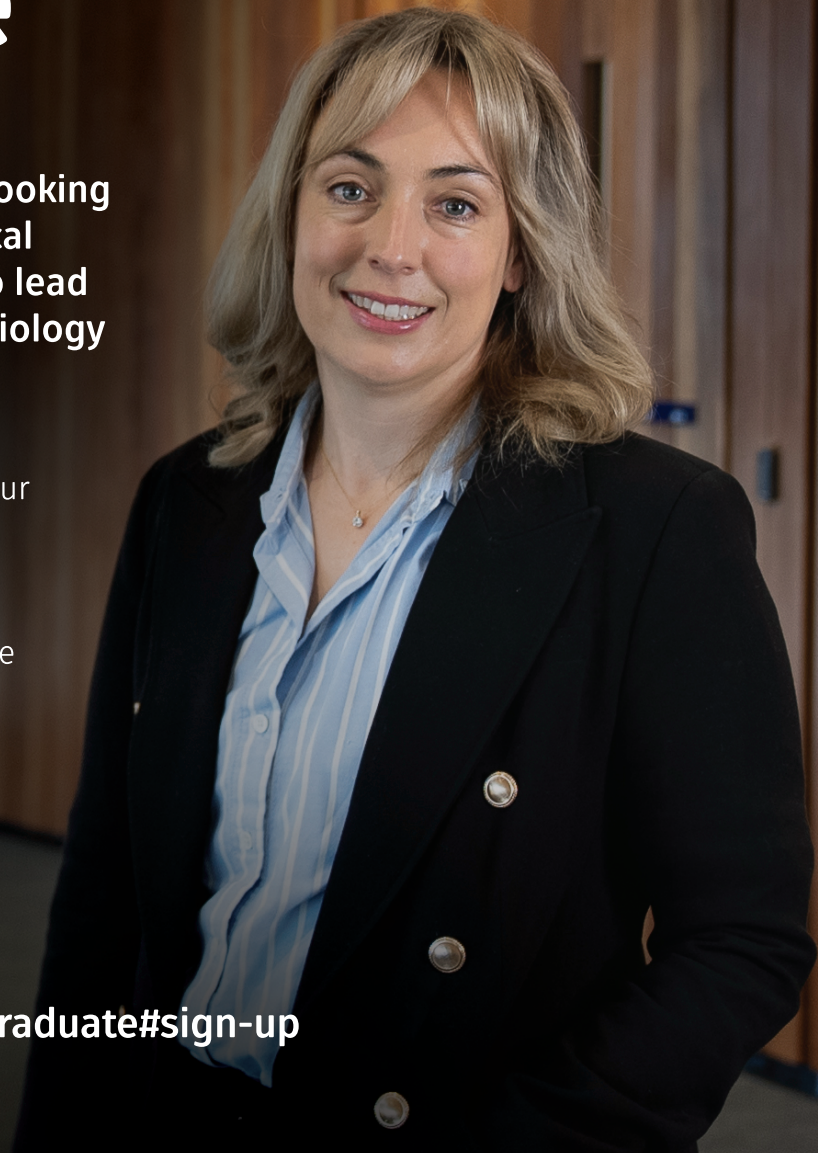
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The Centre for Epidemiology and Biostatistics is one of four Centres and an Institute that comprise the Melbourne School of Population and Global Health. The Centre for Epidemiology and Biostatistics is at the forefront of a preventive health revolution. Big data, changing infectious diseases patterns and multi-disciplinary collaborations are transforming the ways public health disciplines are researched and taught. Our Centre aims to be a leader in this evolving environment.

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W: www.worksafe.tas.gov.au
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EXHIBITOR | Standard Bio Tools

W: https://www.standardbio.com/

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W: https://www.health.tas.gov.au/

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This is what we will focus on between 2024 and 2028. This work is underpinned by the Department's CARE values (Compassion, Accountability, Respect and Excellence) which are shared across the Department.

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WEDNESDAY 16 JULY

TIME	SESSION	ROOM
7:30am - 5:30pm	Pre-Conference Workshop Registration Open	Mezzanine Foyer
Pre-Conference Workshops - Wednesday 16 July		
8:00am - 12:00pm	**Workshop 1 – Analysis planning for handling missing data in epidemiological studies: a new roadmap** **Facilitator:** Dr Jing Tian, Senior Research Fellow, Menzies Institute for Medical Research, University of Tasmania **Presenters:** • Professor Margarita Moreno-Betancur, Clinical Epidemiology & Biostatistics Unit, Murdoch Children's Research Institute and University of Melbourne • Dr Ghazaleh Dashti, Clinical Epidemiology & Biostatistics Unit, Murdoch Children's Research Institute and University of Melbourne Missing data are a common problem in epidemiological studies that can lead to bias if there is a violation in the assumptions about the causes of missing data that underlie (implicitly or explicitly) the analysis. Yet, the traditional forms of missing data assumptions (e.g. "missing at random") are difficult to assess in practice where it is common for multiple variables to have missing data. This workshop will take participants through the steps of a new roadmap for handling missing data that is grounded in the use of causal diagrams to facilitate the specification and assessment of missingness assumptions, and thereby decide on the most appropriate approach to handle missing data.	Grand Room 2
9:00am - 11:00am	**Workshop 2 – Meet the Editors** **Facilitator:** Dr Brooklyn Fraser, Heart Foundation Postdoctoral Research Fellow, Menzies Institute for Medical Research, University of Tasmania **Presented By:** • Assoc. Prof. Freddy Sitas, Editor-in-Chief of Cancer Epidemiology • Prof. Alistair Woodward, Co-Editor-in-Chief, International Journal of Epidemiology • Prof. Kota Katanoda, Co-Editor-in-Chief, Journal of Epidemiology This workshop will feature short presentations from the Editor-in-Chiefs about their respective journals (Cancer Epidemiology, International Journal of Epidemiology and Journal of Epidemiology), followed by a facilitated question and answer session. The second half of the workshop will open to the floor; participants are encouraged to come prepared with all their pressing questions about how to get their research published. ELSEVIER OXFORD UNIVERSITY PRESS Journal of Epidemiology	Grand Room 1
10:00am - 10:30am	Morning Tea	Mezzanine Foyer

PRE-CONFERENCE WORKSHOPS

TIME	SESSION	ROOM
Pre-Conference Workshops - Wednesday 16 July - *continued*		
3.00pm - 3.30pm	Afternoon Tea	Mezzanine Foyer
1:00pm - 5:00pm	**Workshop 3 – Quantitative Bias Analysis with application to issues of misclassification** **Facilitator:** Dr Ingrid Cox, Postdoctoral Research Fellow, Menzies Institute for Medical Research, University of Tasmania **Presenter:** Dr Matthew Fox, Professor, Departments of Epidemiology and Global Health, Boston University Random error is nearly always quantified in biomedical / epidemiologic research results, while systematic error is rarely quantified. This disparate treatment exists despite the fact that systematic error often dominates the uncertainty about an estimate, and the fact that methods for quantitative bias analysis have been described for decades. Shifting point estimates to account for bias, as well as widening study intervals to account for the uncertainty due to systematic error, provides a more complete assessment of total study error and reduces the chances of inferential errors. The course will give an introduction to the available methods for the case of bias due to misclassification.	Grand Room 3
5:30pm - 7.00pm	**Welcome Reception**	
5:30pm – 6:00pm	**Welcome to Country:** Uncle Dougie Mansell **Co-Convenors Welcome:** Assoc. Prof. Brigid Lynch, Cancer Epidemiology Division, Cancer Council Victoria & Dr Brooklyn Fraser, Menzies Institute for Medical Research, University of Tasmania **AEA President Welcome:** Dr Abbey Diaz, School of Public Health, Australian National University **Exhibitor introductions:** 2025 AEA Scientific Meeting Exhibitors	Mezzanine Foyer
6:00pm – 7:00pm	**Cocktail Reception**	
6:00pm – 7:00pm	**Poster Session 1** **Mr Zegeye Abebe Abitew:** Burden of diet-related colorectal cancer in OECD countries from 1990 to 2021 **Miss Varnika Aggarwal:** Exploring methods of de-identifying unstructured health data **Mr Yoseph Alamneh:** Implementing Good Life with OsteoArthritis from Denmark (GLA:D®) in Tasmania, Australia **Mr Moges Assemie:** Cardiovascular health trajectories from childhood to mid-adulthood and its childhood sociodemographic determinants **Dr Terry Boyle:** Confounder selection in physical activity epidemiology: a meta-epidemiological review	

Wednesday 16 July

TIME	SESSION	ROOM
Poster Session 1 - *continued*		
6:00pm – 7:00pm	**Dr Claudia Bruno:** Transforming Australian data to a common data model to streamline pharmacoepidemiologic research **Dr Berihun Dachew:** Cognitive outcomes in children of mothers with pregnancy hypertension: The ALSPAC Study **Dr Berihun Dachew:** Paternal smoking and the risk of ADHD in children: A meta-analysis **Dr Joanna Diong:** The causal effect of face-to-face learning on student performance in anatomy **Dr Malcolm Gillies:** Applying the Waiting Time Distribution for pharmacoepidemiology research with Australian data **Dr Ibinabo Ibiebele:** Have outcomes improved for women with diabetes in pregnancy in NSW? **Dr Ibinabo Ibiebele:** Is Perinatal Mortality risk increased with Gestational Diabetes with or without obesity? **Mr Shariq Ali Khan:** Oral health literacy and associated factors among adolescents attending Islamic boarding schools **Mr Shariq Ali Khan**: Oral health status, OHRQoL and oral health seeking behaviour among adolescents **Mr Shariq Ali Khan**: The association of tobacco use with oral health determinants among school-aged children. **Dr Iain Koolhof:** An Adaptable Modelling Framework For Infection Risk And Control **Dr Iain Koolhof:** Preventing Pathogen Transmission From Surfaces: A Novel Persistent Antimicrobial **Dr. Wei-Cheng Lo:** Disease burden of 30 cancer groups in Taiwan from 2000 to 2021 **Dr. Wei-Cheng Lo:** Lifetime Productivity Decline Attributable to Cigarette Smoking in Taiwan **Mr Mehari Merid:** A systematic review of sun and vitamin D GxE in multiple sclerosis **Mr Yigizie Yeshaw Mihiretie:** Do risk factors of imaging markers affect Alzheimer disease risk **Mr Belayneh Miteku:** Effect of ultra-processed food on late-life depression: a preventive target trial emulation **Ms Tu Nguyen:** Understanding respiratory viral activity in Victoria with SnotWatch—a descriptive space-time analyses **Mr Darren Ong:** Impact of universal nirsevimab programs on respiratory syncytial virus epidemiology in Australia **Mr Sophanit Pen:** Problems in Accessing Healthcare and Associated Factors Among Cambodian Reproductive Aged Women **Dr Farnaz Pourzand:** Machine Learning Analysis of Environmental Risk Factors for Campylobacteriosis in New Zealand **Mrs Philippa Scanlon:** Collecting patient-reported outcomes through a prostate cancer clinical quality registry **Ms Sommer Sherwood:** Comparison of the IPND and listed mobile numbers: ACT General Health Survey **Mr Biruk Shalmeno Tusa:** Associations of maternal perinatal depressive disorders with autism spectrum disorder in offspring **Assoc. Prof. Claire Von Mollendorf:** Pneumococcal Carriage and Disease in Adults Hospitalised with Community-Acquired Pneumonia, Mongolia, 2019-2022 **Dr Adrian Walker:** Medically assisted reproduction and cancer: A bias analysis of real world evidence **Lu Ye:** Incorporating lived experience into secondary data analysis to improve health equity research **Mr Siwei Zhai:** Childhood Risk and Resilience Factors for Pasifika Youth Respiratory Health	Mezzanine Foyer

Thursday 17 July

TIME	SESSION	ROOM
7:20am - 5:00pm	Conference Registration Open	Mezzanine Foyer
8:30am - 4:00pm	Exhibition Open	Mezzanine Foyer
ECR Continental breakfast with invited speakers		
7:30am - 8:30am	This breakfast session offers a unique opportunity for early career researchers to connect with peers, share experiences, and gain insights into navigating the early stages of a research career. Enjoy a light breakfast while networking with fellow researchers and engaging with guest speakers on topics such as career development, funding opportunities, and building collaborative networks.	Harbour View Room 1
Opening Plenary		
Chair:	Prof. Margarita Moreno-Betancur, Clinical Epidemiology & Biostatistics Unit, Murdoch Children's Research Institute & University of Melbourne	
9:00am - 10:00am	**The Role of Intuition in Epidemiology** **Keynote Speaker:** Dr Matthew Fox, Professor, Departments of Epidemiology and Global Health, Boston University Intuition is a necessary part of everyday life, without which we could not make it through a day. Epidemiologists are taught to rely on science, reason, and facts in their work and yet, it is likely that we use intuition all the time. We use it when we make decisions about interpreting the results of studies, about the impact of sources of bias, in the decisions we make in our own research, in our teaching and in our communication with other scientists and the general public. Yet it isn't clear when this approach is useful and when it causes harm. This talk will focus on the role of intuition in epidemiology with examples of cases where we rely on it too much and cases where we don't use it enough.	Grand Ballroom
10:00am – 10:30am	Morning Tea and Exhibtion	Mezzanine Foyer

Thursday 17 July

TIME	SESSION		
10:30am – 12:00pm - Concurrent Session 1			
Time	**1A – Big Data** **Room:** Grand Room 1 **Chair:** Assoc. Prof. David Muscatello	**1B –Social Epi** **Room:** Grand Room 2 **Chair:** Prof. Anne Kavanagh	**1C – Health Behaviours** **Room:** Grand Room 3 **Chair:** Dr Jack Evans
10:30am – 12:00pm	A Lifelong Journey to Combat Non-Communicable Diseases **Speaker: Miss Xuemei Zhang**	Trends in suicide inequalities for Australians with disability from 2011 to 2021 **Speaker: Dr Zoe Aitken**	Handgrip strength and bone health in childhood: a population-based prospective study **Speaker: Mr Pantalius Nji Che**
	Propensity score estimation: assessing machine learning methods for an observational prison cohort **Speaker: Ms Aimée Altermatt**	The Health After Release From Prison (HARP-4) cohort consortium **Speaker: Dr Craig Cumming**	Unhealthy Lifestyle Patterns in Adolescents: A Multilevel Analysis from 73 Countries **Speaker: Mr Yohannes Tekalegn Efa**
	External Validation of Dementia Risk Models in an Italian Community Cohort Study **Speaker: Dr Jennifer Dunne**	Linking for Life: Enhancing Cross-Sectoral Data Integration for Improved Community Wellbeing **Speaker: Dr Craig Cumming**	Maternal smoking and alcohol consumption on infant outcomes in the NT 1996-2022 **Speaker: Dr Lin (Lilly) Li**
	Large-scale evidence: novel epidemiological approach to assess antibiotic risk of aortic events **Speaker: Dr Jack Janetzki**	Burden of disease and injury in Australia in 2024 **Speaker: Ms Julianne Garcia**	Chemicals and Biomarker Mediators of Ultra-Processed Food - Chronic Respiratory Disease Mortality **Speaker: Mr Tefera Mekonnen**
	Case crossover design in data linkage studies: A practical approach in epidemiology **Speaker: Dr Serah Kalpakavadi**	Emergency department occupational injury presentations by country of birth: Victoria, Australia **Speaker: Dr Stella Gwini**	Observations of smoking product retailers before a licensing intervention in Queensland, Australia. **Speaker: Mr Dean Pousini-Hilton**
	Dynamic Time Warping and the spatiotemporal variation of COVID-19 case time series **Speaker: Dr Khai Lin Kong**	Disability epidemiology: the new frontier **Speaker: Prof. Anne Kavanagh**	Association between ultra-processed food intake and chronic kidney disease in Chinese adults **Speaker: Dr Zumin Shi**
	Choosing Surveillance Systems that Best Support Machine Learning for Short-term Influenza Forecasting **Speaker: Mrs Negin Maroufi**	Progress and inequality in NCD management in Vietnam: A Bayesian spatio-temporal analysis **Speaker: Dr The Phuong Nguyen**	Impaired doctors: A ten-year cohort study of health impairment reports in Australia **Speaker: Dr Yamna Taouk**

TIME	SESSION
10:30am – 12:00pm - Concurrent Session 1 - *continued*	

Time	**1A – Big Data** **Room:** Grand Room 1 **Chair:** Assoc. Prof. David Muscatello	**1B –Social Epi** **Room:** Grand Room 2 **Chair:** Prof. Anne Kavanagh	**1C – Health Behaviours** **Room:** Grand Room 3 **Chair:** Dr Jack Evans
10:30am – 12:00pm	SnotWatch: spatiotemporal ecological platform for understanding viral contribution to important health outcomes **Speaker: Ms Tu Nguyen**	Health, Environmental, and Lifestyle Intersectional Observatory (HELIO): quantitative intersectional analysis in Australia **Speaker: Dr Thiago M. Santos**	Stroke Riskometer™ mHealth Application increases Stroke Awareness in A Randomised Controlled Trial **Speaker: Mr Addisu Dabi Wake**
		Natural environment and risk of gestational diabetes mellitus–Intersection of social environment **Speaker: Mr Wubet Takele**	

Time	**1D – Rapid Fire - Emerging Concerns** **Room:** Harbour View Room 1 **Chair:** Prof Seana Gall	
10:30am – 12:00pm	Sleep treatments in MS: using inverse probability weighting to address indication bias **Speaker: Mr Tadeg Amare** Occupational exposure to welding fume in Australia **Speaker: Prof. Tim Driscoll** Integrating causal inference into epidemiology education: Evidence from a review and survey **Speaker: Ms Yukiko Ezure** Influenza vaccination for previously unvaccinated children. Are two doses better than one? **Speaker: Ms Jessie Goldsmith** A cluster RCT evaluation of a blue-collar male-oriented workplace suicide prevention program **Speaker: Prof. Anthony D. LaMontagne** The Net Zero Partnership to decarbonise NSW Health public hospitals **Speaker: Dr Erin Mathieu** Heat exposure on the risks of negative pregnancy outcomes in India **Speaker: Assoc. Prof. Nicholas Osborne**	Building the applied epidemiology workforce capacity through industry partnership **Speaker: Dr Davoud Pourmarzi** Hysterectomy, oophorectomy, and bone health: a systematic review and meta-analysis **Speaker: Mr Md Shariful Islam** Association between socio-environmental factors and gestational diabetes mellitus risk in Australia **Speaker: Mr Wubet Takele** Exploring limitations of sibling comparisons through two perinatal exposures and childhood infections **Speaker: Ms Isobel Todd** Maternal perinatal depressive disorders and risk of offspring attention deficit hyperactivity disorder **Speaker: Mr Biruk Shalmeno Tusa** Genome-wide analysis identifies novel DNA methylation patterns associated with age at menarche **Speaker: Dr Zhoufeng Ye** Disability and mental health among young people: effect modification by social connection **Speaker: Ms Lu Ye**

Thursday 17 July

TIME	SESSION	ROOM
12:00pm - 1:00pm	Lunch, Poster Session 2 and Exhibition	Mezzanine Foyer
12:00pm - 1:00pm	**Mr Biruk Abate:** Prenatal depression with comorbid diabetes/hypertension increases the risk of adverse postnatal outcomes **Mr Moges Assemie:** Modifiable factors from childhood to adulthood and mid-adulthood cardiometabolic outcomes **Dr Julie Bassett:** Formalising best-practice processes in research: development of a Stata eLearning tool **Mr Adam Wondmieneh Belay:** Pharmacological and dietary interventions to mitigate cardiovascular adverse effects of air pollution **Mr Daniel Gashaneh Belay:** Mapping traditional birth attendance in sub-Saharan Africa between 2012 and 2023 **Dr Michael Bentley:** The epidemiology of general practice training **Dr Bibha Dhungel:** Health system expenditure in OECD countries: Implications of achieving SDG target 3.4 **Dr Jack Evans:** Interventions to improve non-communicable disease screening: a systematic review **Prof. Daniel Exeter:** Does area deprivation affect the lived experience of long COVID in Aotearoa? **Prof. Daniel Exeter:** Embracing AI for teaching undergraduate population health courses **Dr Amanuel Gebremedhin:** A Shiny App for Assessing Sufficiency and Stability in Meta-Analyses **Ms Kelly Hall:** Validating an emerging pharmacoepidemiologic method: The Prevalent New User Design **Dr Laura Laslett:** Using latent profile analysis to identify distinct symptom profiles in MS **Dr Andrew Lau:** Adoption and Attitudes Toward AI in Epidemiology: Insights from Industry and Graduates **Miss Danmeng Li:** Validity of methylation-based C-reactive protein markers and implications for disease risk assessment **Miss Haley Li:** DAGknife: A DAG-Based Simulation Tool for Quantitative Bias Analysis in Epidemiology **Mr Richard Martino:** Investigating the link between particulate matter exposure in early childhood and ADHD **Dr Kate Mason:** Rent increases and mental health among low-income renters in Australia **Dr Yonatan Moges Mesfin:** Pneumococcal carriage in the PCV10/13 vaccine-era: an individual-level data meta-analysis **Mr. Tewodros Yosef Mohammed:** Trends and Risk Factors of Falls: Insights from the Geelong Osteoporosis Study **Prof. Natasha Nassar:** Long-term outcomes of children born to mothers with hyperemesis gravidarum **Prof. Natasha Nassar:** Stimulant treatment for attention-deficit/hyperactivity disorder and risk of criminal offending **Dr Bruna Ragaini:** The shifting landscape of cancer registration and research in Tasmania **Dr Nicole Satherley:** Gastric cancer incidence and mortality variation among Pacific peoples in New Zealand **Assoc. Prof. Claire Von Mollendorf:** Risk factors for severe community acquired pneumonia in hospitalised adults in Mongolia **Miss Ziyu Wang:** Consumption of fruit and vegetables and risk of bladder cancer: A pooled analysis of 30 cohort studies	Mezzanine Foyer

TIME	SESSION	ROOM
Plenary Session 2		
Chair:	Prof. James Stanley, Biostatistician, University Of Otago, Wellington	
1:00pm - 2:00pm	**Consent, trust and privacy in the age of digital data research** **Keynote Speaker:** Prof. Angela Ballantyne, University of Otago, Wellington Risks and benefits related to big data, artificial intelligence and public health.- Trade-offs - speed of research, equity and inclusion, public trust- Governance and social license - Consent for data research - when is it necessary and what normative and legal work is consent doing?	Grand Ballroom

Thursday 17 July

TIME	SESSION

2:10pm – 3:30pm - Concurrent Session 2

Time	2A - AIHW Sponsored Session: Leveraging Linked Data Room: Grand Room 1	
2:10pm – 3:30pm	**Presenters:** General introduction/background to national data linkage landscape **Dr Zoran Bolevich**, CEO, Australian Institute of Health and Welfare National Health Data Hub: opportunities for research **Ms Caitlin Szigetvari,** Director, Integrated Data Access and Release Unit & National Health Data Hub Data Custodian, Data Governance and Integration Group, Australian Institute of Health and Welfare Scoping rapid linkage of communicable disease data **Ms Miriam Lum On**, Director, Integration Development Unit, Data Governance and Integration Group, Australian Institute of Health and Welfare	Australian Government **Australian Institute of Health and Welfare**

Time	2B - Mental Health Room: Grand Room 2 Chair: Assoc Prof Zoe Aitken	2C – Women's and Children's Health Room: Grand Room 3 Chair: Dr Erin Mathieu
2:10pm – 3:30pm	Young Australian's mental health trajectories: Before, during and after the COVID-19 pandemic **Speaker: Ms Ebony Biden**	Risk factors' contributions to under-five mortality in Low- and Lower-Middle-Income Countries (1997-2022) **Speaker: Mrs Bereket Kefale Abitew**
	Suicide risk among young carers and non-carers: a national data linkage study **Speaker: Dr Ludmila Fleitas Alfonzo**	Women's empowerment effect on the uptake of maternal health services in LMICs **Speaker: Mr Daniel Gashaneh Belay**
	Mental health impacts of damp housing: a longitudinal analysis **Speaker: Ms Maria Gatto**	Association between early-life exposure to extreme particulate matter and childhood blood pressure **Speaker: Mr Adam Belay**
	Assessing the burden of mental health disorders associated with heat among children **Speaker: Prof. Natasha Nassar**	Protein-bound skin ceramides are associated with "atopic dermatitis without food allergy" **Speaker: Miss Natalie Chang**
	Influence of Psychiatric Comorbidities on Seasonality and Hospital Admissions for Schizophrenia **Speaker: Dr Shafkat Jahan**	Association Between Perinatal Artificially Sweetened Beverage Consumption and Adverse Pregnancy Outcomes **Speaker: Mr Bereket Gebremichael**
	Self-rated health, epigenetic ageing, and long-term mortality in older Australians **Speaker: Miss Danmeng Li**	Genetic and environmental contributions to childhood height in developing countries **Speaker: Mr Reta Yimer**

TIME	SESSION	
1:00pm – 2:30pm - Concurrent Session 2 - *continued*		
Time	**2D - Rapid Fire - Chronic Conditions** **Room:** Harbour View Room 1 **Chair:** Dr Lieke Scheepers	
2:10pm – 3:30pm	Geographical Disparities in Colorectal Cancer Screening Participation: A Systematic Review and Meta-analysis **Speaker: Mr Melkalem Azanaw** Spatial variation of testicular cancer incidence in Australia, 2010-2019 **Speaker: Dr Charlotte Bainomugisa** One in 10 cancer-related deaths could be avoided by reducing spatial disparities **Speaker: Dr Jessica Cameron** A polygenic risk score predicts atrial fibrillation in initially healthy older individuals **Speaker: Dr Peter Fransquet** Celebrating 40 years of the Childhood Determinants of Adult Health (CDAH) study **Speaker: Prof. Seana Gall** Tooth loss and Mortality in Adults Aged 45 and Over with Diabetes **Speaker: Miss Katherine Meikle** Falls and Quality of Life in Older Adults: Does Fall Frequency Matter? **Speaker: Mr Tewodros Yosef Mohammed**	International Pooled Analysis of Recreational Physical Activity, Obesity and Endometrial Cancer Risk **Speaker: Dr Nina Na** Understanding intersectionality to support planning for diabetes prevention and control among migrants **Speaker: Dr Davoud Pourmarzi** Long-acting, progestin-based contraceptives and risk of breast, gynaecological and other cancers **Speaker: Dr Karen Tuesley** Predicting colorectal neoplasia risk in people undergoing colonoscopy surveillance: A systematic review **Speaker: Dr Molla Wassie** Genomic Risk Prediction for Type 2 Diabetes in Australians Aged ≥70 Years **Speaker: Dr Chenglong Yu**
3.30pm - 4.00pm	Afternoon Tea and Exhibition	Mezzanine Foyer
Q&A Session		
Facilitator:	Assoc. Prof. Melissa Russell, Epidemiologist, University of Melbourne	
4:00pm - 4.45pm	**Future needs for the epidemiological workforce** **Panellists:** • Prof. Paul Kelly, Former Chief Medical Officer and Head of Interim Australian Centre for Disease Control • Prof. Tony Blakely, Director, Population Interventions (PI) Unit, Centre for Epidemiology and Biostatistics, Melbourne	Grand Ballroom

Thursday 17 July

TIME	SESSION	ROOM
Ian Prior Oration		
Chair:	Prof. Graham Giles, Distinguished Research Fellow, Cancer Council Victoria	
4:45pm - 5.30pm	**Modern epidemiology - the science of public health and beyond** **Orator:** Prof. Anne-Louise Ponsonby (B Med Sci, MBBS, PhD, FAFPHM, FAFHMS, RACP), NHMRC Senior Leadership Fellow, Division Head, Early Brain Division and Research Group, Head of the Neuroepidemiology Group, Florey Institute for Neuroscience and Mental Health Modern epidemiology retains a central role in the modern world, not only as the science of public health but a discipline that can advance our understanding of molecular disease causation and how at the population level, we can best defect, evaluate and contribute to global threat solutions. I review some of the experiences and insight gained over my career highlighting work in a primary and secondary disease prevention, particularly work originating in Tasmania on sudden infant death syndrome and multiple sclerosis. I also outline my more recent work including casual disease pathways and the assessment of pollution health impacts in early life.	
End of Conference Day 1		

Check out the latest on the interim Australian Centre for Disease Control (CDC).

Visit our website at www.cdc.gov.au

Interim Australian Centre for Disease Control

Friday 18 July

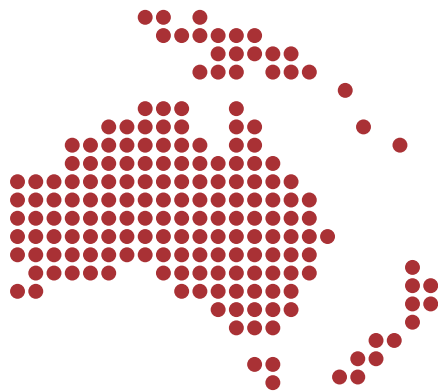| TIME	SESSION	
8.30am-4.00pm	Registration Desk Open	Mezzanine Foyer
8.30am-4.00pm	Exhibition Open	Mezzanine Foyer
ECR Workshop		
Chair:	Prof. Leigh Blizzard, Menzies Institute for Medical Research, University of Tasmania	
9:00am-10:00am	**ECR presentation #1** **ECR Presenter:** Dr Karen Tuesley, Lecturer, University of Queensland Do fertility medicines increase risk of pregnancy-associated cancer, or is the higher rate related to the separate associations with cancer and pregnancy? **Expert Discussant presentation #1:** Prof. Tony Blakely, Director, Population Interventions (PI) Unit, Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health **Group Q & A** **ECR presentation #2** **ECR Presenter:** Mr Mehari Merid, PhD Student, University of Melbourne Methodological Issue: Lack of consistency in the interaction findings between low sun and/or vitamin D and HLA-DRB1*15 in multiple sclerosis risk? **Expert Discussant presentation #2:** Dr Valery Fuh Ngwa, Menzies Institute of Medical Research, University of Tasmania **Group Q & A**	Grand Ballroom
10.00am - 10:30am	Morning Tea	Mezzanine Foyer
10.10am - 10:30am	**Update on the establishment of the Australian CDC** **Presenter:** Ms Emma Denehy, Assistant Secretary, Public Health & Surveillance Branch, Interim CDC The Australian Government has committed to establish an independent Australian Centre for Disease Control (CDC), with an expected launch date of 1 January 2026 (pending passage of legislation). Join Ms Emma Denehy, Assistant Secretary, Public Health & Surveillance Branch from the interim CDC for an update on the establishment of the Australian CDC.	Harbour View Room 1

Friday 18 July

TIME	SESSION	
10:30am - 12:00pm - Concurrent Session 3		

Time	3A – Methods **Room:** Grand Room 1 **Chair:** Prof. James Stanley	3B – Populations and place **Room:** Grand Room 2 **Chair:** Prof. Daniel Exeter	3C - Cancer **Room:** Grand Room 3 **Chair:** Dr Ingrid Cox
10.30am - 12:00pm	Spatial estimates of cancer-specific mortality and survival provide different interpretations **Speaker: Dr Jessica Cameron**	Heatwave and humidity impacts on Northern Territory emergency department presentations **Speaker: Dr Nicolas Borchers Arriagada**	Alcohol consumption and bladder cancer risk:a pooled analysis of 30 prospective studies **Speaker: Dr Nina Afshar**
	Robust real-world evidence for Australian medicines use: A blinded, multi-centre replication experiment **Speaker: Dr Benjamin Daniels**	Breast Cancer Incidence, Mortality, and Survival Among Indigenous Women: A Systematic Review **Speaker: Mrs Halijah Brewster**	Physical activity and liver cancer in the NIH-AARP Diet and Health Study **Speaker: Miss Frances Albers**
	Transparent Reporting of Observational Studies Emulating a Target Trial: The TARGET Guideline **Speaker: Mr Harrison Hansford**	Linked Data Applications: Adding longitudinal capability to a survey of Māori wellbeing **Speaker: Miss Tori Diamond**	Assessment of cardiovascular disease risk in breast cancer patients: A scoping review **Speaker: Mr Mulugeta Melku Gobezie**
	Using multiple estimands to understand treatment effects with competing risks **Speaker: Dr Madeleine Hinwood**	The Harti paediatric randomised trial 5-years on; building for the future **Speaker: Dr Polly Atatoa Carr**	Assessment of cardiovascular disease risk in breast cancer patients: A scoping review **Speaker: Ms Mi Hye Jeon**
	Modelling the health and economic impacts of a tobacco-free-generation policy in Australia **Speaker: Ms Samantha Howe**	Air pollution exposure and bone health: critical windows of susceptibility **Speaker: Dr Lieke Scheepers**	Integrating Genomic Information in Prostate Cancer Risk Prediction: Insights From International Cohorts **Speaker: Mr Philip Ly**
	Becoming Bayesian: From innovative technique to business as usual, building staff capacity **Speaker: Dr Kerry Staples**		Protein Markers of Ovarian Cancer and Subtypes: A Proteome-wide Mendelian Randomisation study **Speaker: Dr Anwar Mulugeta**
	Novel methods to investigate trends in Australian dementia risk profiles over time **Speaker: Dr Heidi Welberry**		Meat, seafood and egg consumption and oesophageal cancer risk: a pooled analysis **Speaker: Dr Yang Peng**

Friday 18 July

TIME	SESSION

10:30am - 12:00pm - Concurrent Session 3 - *continued*

Time	3A – Methods **Room:** Grand Room 1 **Chair:** Prof. James Stanley	3B – Populations and place **Room:** Grand Room 2 **Chair:** Prof. Daniel Exeter	3C - Cancer **Room:** Grand Room 3 **Chair:** Dr Ingrid Cox
10.30am - 12:00pm	Simultaneous assessment of multiple biases in causal inference **Speaker: Dr Rushani Wijesuriya**		Genetic screening for colorectal cancer could facilitate early identification of high-risk individuals **Speaker: Dr Mathias Seviiri** Obesity and risk of stomach cancer in a pooled consortium study **Speaker: Dr Howard Ho-Fung Tang**

Time	3D - Rapid Fire - Descriptive Epi **Room:** Harbour View Room 1 **Chair:** Dr Jing Tian	
10.30am - 12:00pm	Gender differences in hepatitis C elimination outcomes: A multinational study **Speaker: Ms Aimée Altermatt** New methods show how patterns of multimorbidity vary with age **Speaker: Miss Steph Gordon** Housing transitions of young people with disability in Australia: a descriptive analysis **Speaker: Dr Tess Bright** Time trends in post-school outcomes for young Australians with intellectual disability **Speaker: Ms Stefanie Dimov** Contribution of risk factors to disease burden in Australia in 2024 **Speaker: Miss Steph Gordon** Silicosis prevalence among migrant workers in the Victorian artificial stone benchtop industry **Speaker: Dr Stella Gwini** Time trends in the geographic distribution of the dental workforce 2019-2023 **Speaker: Assoc. Prof. Matt Hopcraft**	Squeezing tobacco outlet density in Tasmania, a trend analysis 2002-2019 **Speaker: Ms Veronica Martin-Gall** Did the two-child welfare limit cause England's rise in abortions after 2016? **Speaker: Dr Kate Mason** Exploring mental health disparities by disability and remoteness in Australia **Speaker: Dr Marissa Shields** A Descriptive Study of Mortality Trends in the Northern Territory, 1967-2020 **Speaker: Mr Dzulfikaar Sutandar** Gendered associations between work-family conflict and mental health amongst employed Australian parents **Speaker: Dr Yamna Taouk** Patterns and characteristics of retention in opioid agonist therapy during pregnancy **Speaker: Ms Bianca Varney**

Friday 18 July

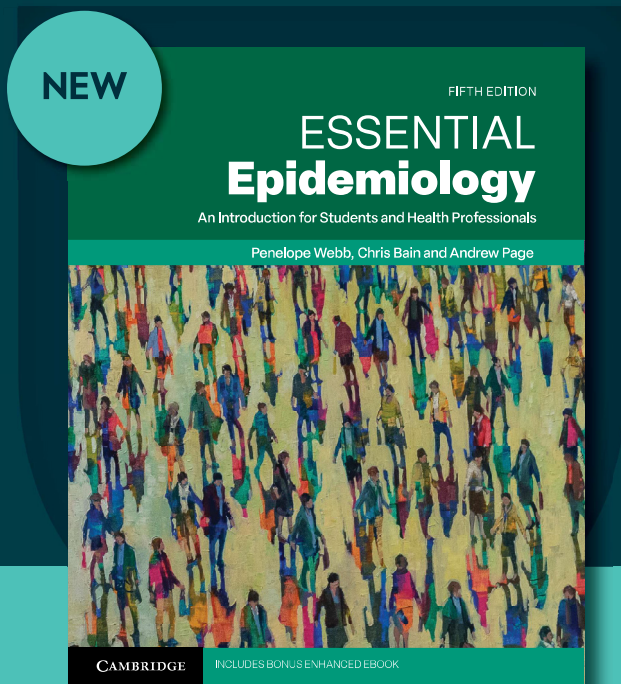| TIME	SESSION	ROOM
12:00pm - 1:00pm	Lunch and Exhibition	Mezzanine Foyer
12:05pm - 1:00pm	AEA Annual General Meeting	Harbour View Room 1
Plenary Session 3		
Chair:	Dr Mathias Seviiri, Senior Research Officer, QIMR Berghofer	
1:00pm - 2:00pm	**Accelerating Discovery: Modernizing Epidemiologic Cohorts for Impact** **Keynote Speaker:** Dr Alpa Patel, Senior Vice President, Population Science, American Cancer Society The Cancer Prevention Study-3 is a large nationwide prospective cohort study conducted by the American Cancer Society. Enrollment of approximately 300,000 cancer-free participants between the ages of 30 and 65 years took place between 2006 and 2013 across the United States at various community sites. Participants signed an informed consent, completed a lifestyle and health history survey, and provided a small blood sample. While participants are minimally followed with triennial surveys and routine linkages for cancer and mortality outcomes, several innovative enhancements have taken place in this study. This presentation will highlight strategies to advance data and study management through technology, use of AI to expand clinical data collection, collection of various biologic specimens, and novel types of data collection through remote engagement with study participants. With these new tools, prospective epidemiologic cohorts have the potential to have a broader impact in scientific discovery.	Grand Ballroom

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Friday 18 July

TIME	SESSION		
2:10pm - 3:30pm - Concurrent Session 4			
Time	**4A – Infectious Diseases** Room: Grand Room 1 Chair: Dr Stacey Rowe	**4B – Pharmecoepidemiology** Room: Grand Room 2 Chair: Dr Ghazaleh Dashti	**4C – Cardiovascular Disease** Room: Grand Room 3 Chair: Miss Tori Diamond
2:10pm - 3:30pm	Seasonality of RSV in northern Western Australia **Speaker: Miss Marette Dean**	The relationship between opioid agonist therapy and cessation of injecting drug use **Speaker: Assoc. Prof. Paul Agius**	Domain-specific activity trajectories are differentially associated with mid-adulthood cardiovascular structure and function **Speaker: Dr Jack Evans**
	Comparisons of multiple interventions in infectious diseases research: a scoping review **Speaker: Miss Rukshala Gunaratne**	The Use and Implementation of Instrumental Variables in Pharmacoepidemiology: A Scoping Review **Speaker: Dr Malcolm Gillies**	Cardiorespiratory fitness: a lifelong target for overall cardiovascular health **Speaker: Dr Brooklyn Fraser**
	Pathogen-specific exposure is associated with multisite chronic pain: a prospective cohort study **Speaker: Mr. Zemene Demelash Kifle**	Trends in prescription opioid use in Australia: perspectives from multiple data sources **Speaker: Prof. Sallie Pearson**	Ultra-Processed Food (UPF) Consumption and Sleep Apnoea Risk in Adults **Speaker: Dr Yohannes Adama Melaku**
	Measles seroprevalence in infants under nine months in low- and middle-income countries **Speaker: Mr Darren Ong**	Prenatal exposure to ADHD medicines and risk of neurodevelopmental disorders: multinational study **Speaker: Dr Claudia Bruno**	Life-course waist circumference trajectories and the risk of metabolic syndrome in adulthood **Speaker: Thai Thien Kim Nguyen**
	Equipping the next generation of applied epidemiologists with pandemic preparedness planning skills **Speaker: Dr Davoud Pourmarzi**	Is hospitalisation a risk factor for discontinuation of SGLT2i medicines? **Speaker: Assoc. Prof. Michael Falster**	The Impact of Post-Acute Sequelae of COVID-19 on Cardiac Function and Structure **Speaker: Mr Binyam Tariku Seboka**
	Private Water Supplies and Campylobacteriosis: Epidemiological Findings from Rural New Zealand **Speaker: Dr Farnaz Pourzand**	Opioid Agonist Treatment Use in Pregnancy: 16-Year Trend in New South Wales **Speaker: Dr Duong Tran**	US public attitudes towards paediatric lipid screening: An online survey **Speaker: Mr Oliver Stanesby**
	Depression as a Moderator and Mediator of Functional Status in Post-COVID-19 Patients **Speaker: Mr Binyam Tariku Seboka**	Target trial emulation on the risks of opioid analgesic use during pregnancy **Speaker: Ms Bianca Varney**	Aspirin for Primary Prevention of Cardiovascular Events in Relation to Lipoprotein(a) Genotypes **Speaker: Dr Chenglong Yu**

TIME	SESSION
2:10pm - 3:30pm - Concurrent Session 4 - *continued*	

Time	4D - Rapid Fire - Surveillance and Big Data **Room:** Harbour View Room 1 **Chair:** Dr Madeleine Hinwood	
2:10pm - 3:30pm	Utilizing Machine Learning for Early Detection of Cardiovascular Disease Risk Factors **Speaker: Dr Shreya Chauhan** Enhancing Infectious Disease Surveillance with Artificial Intelligence for Real-Time Outbreak Detection **Speaker: Dr Shreya Chauhan** The impact of front-of-pack labelling on reducing social inequality in sugar consumption **Speaker: Miss Ziyao Ge** Modelling the impact of a tobacco endgame in Australia across sociodemographic groups **Speaker: Ms Samantha Howe** Identifying medicine shortages: novel epidemiologic approaches and a case study for ADHD **Speaker: Dr Jack Janetzki** The effectiveness of Incentives on Cancer Screening Among Indigenous Populations: Systematic Review **Speaker: Dr Nafiseh Khalaj** Passenger Screening and the Prevention of Disease Translocation **Speaker: Dr Iain Koolhof**	Ultra-Processed Food consumption and obesity among children and adolescents in China **Speaker: Dr Ming Li** Greenness, overweight and obesity in Bangladesh:a cross-sectional geospatial analysis of 42081 participants **Speaker: Dr Erin Mathieu** GenV geospatial: Enabling environmental health research in Victoria's mega-cohort **Speaker: Dr Suzanne Mavoa** Differential DNA methylation mediates the associations of Mediterranean diet with MS risk **Speaker: Mr Mehari Merid** Development and application of the Australian Dietary Guidelines adherence tool (ADG-AT) **Speaker: Dr Steve Simpson-Yap** Higher Mediterranean diet adherence prospectively linked to better health in Multiple Sclerosis **Speaker: Ms Maggie Yu**

TIME	SESSION	ROOM
3:30pm - 4:00pm	Afternoon Tea and Exhibition	Mezzanine Foyer

Closing Plenary

Chair:	Prof. Nicola Stephens, University of Tasmania	
4:00pm - 5:00pm	**Real-time surveillance, taming the data beast** **Keynote Speaker:** Dr Stacey Rowe, Infectious Diseases Epidemiologist, Kaiser Permanente Southern California, Monash University **Keynotes Speaker:** Dr David Muscatello, Associate Professor, University of New South Wales Real-time surveillance can mean many things. Typically, it refers to the capture and frequent analysis of data to signal aberrations in the frequency of disease or injury in a population, which could be indicative of a disease outbreak or other public health threat emerging. It can also refer to integration of big or multiple data sources, such as mining of the 'twittersphere', for surveillance, application of machine learning or artificial intelligence to the aberration detection problem, or outbreak detection from wearable devices. For the epidemiologist, the key challenges are converting non-curated data into a form that can be epidemiologically analysed, establishing automated, frequent analyses, identifying and dealing with false alarms, and translating signals into action. Based on their real-world and academic experience, epidemiologists Dr Stacey Rowe and A/Prof David Muscatello will give a broad introduction to real-time surveillance, including benefits, challenges and key design considerations.	Grand Ballroom

Conference Close and Awards

Chair:	Assoc. Prof. Brigid Lynch and Dr Brooklyn Fraser, Co-convenors of the 2025 AEA Annual Scientific Meeting	
5:00pm - 5:30pm	Awards Presentations 2026 AEA Annual Scientific Meeting, Dr Sunia Foliaki	

Conference Close

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Australasian Epidemiological Association

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About the Australasian Epidemiology Association

The Australasian Epidemiological Association aims to develop and promote the discipline of epidemiology in Australasia through:

- promoting excellence in the practice of epidemiological methods;
- communication of issues relevant to epidemiologists;
- advocating for funding, capacity building and policy development;
- strategic alliances with related organisations to maintain high standards of public health practice, teaching and research in Australasia.

This is achieved through being an organisation committed to excellence in governance, with a strong member focus.

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Email Bulletin - A fortnightly email bulletin is distributed to all members and provides notices of official AEA business and information on relevant employment opportunities, training courses, workshops and conferences.

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The Australasian Epidemiological Association (AEA) is the professional organisation dedicated to excellence in epidemiological research, education, training and advocacy in the Australasian and Oceanic region.

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