Equity in disease prevention: vaccines for the elderly

Bayview On the Park Hotel, Melbourne

20 June 2014

Workshop Program
Workshop Organising Committee

Professor Raina MacIntyre  
CRE Chief investigator

Dr Bette Liu  
CRE Professional research person

Dr Anthony Newall  
CRE Professional research person

A/ Professor Christopher Poulos  
CRE Associate Investigator

Ms Elizabeth Kpozehouen  
CRE administrator

Workshop Sponsors

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Welcome to Workshop ‘Equity in disease prevention: vaccines for the elderly’

Australia has an ageing population, and we are increasingly looking for ways to contribute to healthy ageing and prevention of disease in the elderly.

Elderly vaccination is an expanding field, with more and more vaccines now available to prevent infections in older adults.

Unlike infants, whose immune systems mature over time and with each dose of vaccination, the elderly face waning immune systems and decreased ability to respond to vaccines.

In the field of vaccinology, we are used to high vaccine efficacy, and tend to view efficacies of less than 70-80% as sub-optimal. In older adults, vaccine efficacy is lower than in young people, and this is seen universally across all vaccines used in the elderly.

Providers often view vaccination through a paediatric lens, and so view elderly vaccination as ineffective – when in fact most vaccines have been shown to be effective, just less effective than in younger people.

Yet in other accepted areas of prevention, such as statins for prevention of coronary disease, the efficacy is far lower than for elderly vaccines.

Why is it, then, that providers dismiss vaccines in the elderly as ineffective? Value judgements about prevention of disease in older people may also be a factor which has not been well addressed. As our population ages, it is important to take advantage of all opportunities for prevention. This workshop will cover the latest scientific updates in elderly vaccination, but will also address these important ethical and value based issues which can impact on the success of immunisation programs.

The NHMRC CRE is pleased to be able to host this workshop and put elderly vaccination on the national agenda, and to learn from the participants and their diverse perspectives.

Professor Raina MacIntyre

Director NHMRC CRE
This NHMRC CRE in Population Health Research commenced in 2012 and is focused on immunisation for vulnerable or marginalised population subgroups at increased disease risk. Research to inform immunisation policy and practice in these groups usually remains beyond the scope of funding from government or industry, and as such is the focus of our CRE.

We are committed to capacity building of future leaders, post-doctoral researchers and students in this field, as well as to conducting research to advance the understanding of immunisation in special risk populations in the four streams below. These risk groups suffer disproportionate morbidity and mortality, either because of less robust immunity or because of co-morbidities and environmental factors.

This workshop will provide an update on the latest evidence around immunisation for the elderly, and will address barriers for prevention of infection in the elderly.

**Streams of the CRE**

- Aboriginal and Torres Strait Islander vaccination needs
- Maternal and neonatal vaccination
- Frail elderly vaccination
- Vaccination in migrants, travellers and refugees

**The CRE Team**

This CRE brings together a team of international experts in quantitative and qualitative methods in vaccine research, across 7 Universities and Institutes. The CRE funds talented post-doctoral researchers and research students who will work with the team of Chief and Associate investigators to build research capacity.

Our advanced expertise in epidemiology and biostatistics, disease and economic modelling, vaccine trials and social science are applied to the cross-cutting theme of vaccination across the four risk-population streams.
Workshop program

8:15  Registration

8:45  Welcome to country – Aunty Diane Kerr, Wurundjeri Elder

8:50  Keynote address – Mr Max Walker, AM, Former Australian cricketer & VNR/AFL footballer, commentator, author, architect & marketer

9:10  Welcome – Mr Michael Moore, Former Minister of Health and Community Care & CEO, Public Health Association of Australia (PHAA)

Scientific updates part 1 – Chair, A/Professor Chris Poulos

9:20  Is the glass half empty or half full? Changing the paradigm of vaccination for the elderly – Professor Raina MacIntyre, Head, School of Public Health and Community Medicine, UNSW & Director, NHMRC Centre of Research Excellence in Population Health Research

9:40  The future of elderly pneumococcal vaccination – Professor David Goldblatt, Professor of Vaccinology and Immunology, Institute of Child Health, University College London & Director, World Health Organization (WHO) Pneumococcal Reference Laboratory

10:00  Community-Acquired Pneumonia Immunization Trial in Adults (CAPiTA) – Dr Scott Williams, Associate Medical Director, Pfizer Australia & New Zealand

10:20  Economic evaluation of elderly vaccination programs – Dr Anthony Newall, Senior Lecturer in Health Economics, The School of Public Health and Community Medicine (SPHCM), University of New South Wales

10:40  Morning Tea

Scientific updates part 2 – Chair A/Professor Michael Woodward

11:00  Risk factors for herpes zoster – results from a large Australian cohort study – Dr Bette Liu, Senior Lecturer, School of Public Health and Community Medicine UNSW & a NHMRC Career Development Fellow

11:20  Can the impact of Herpes Zoster on quality of life be improved? – Dr David Gronow, President, Australian Pain Relief Association; Director of Sydney Pain Management Centre & Director of Multidisciplinary Pain Services, Westmead Hospital

11:40  What role is there for quadrivalent influenza in the elderly? – Dr Francois Meurice, Vice-President, Global Medical Affairs, Scientific Affairs & Medical Education, GSK
### Schedule

**12:00**  
**Lunch**

**Panel discussion: How good is good enough for the elderly?**  
Chair – Professor Raina MacIntyre

**13:00**  
**Ethics perspective on value judgement in preventive health for the elderly** – Dr Michael Chapman, Geriatrician and palliative care physician, St Vincent Health

**13:10**  
**Vulnerability and risk in the elderly** – Dr Joanne Travaglia, Senior Lecturer & Head, Health Management Program, Faculty of Medicine, UNSW

**13:20**  
**Under vaccination of the elderly** – A/Professor Michael Woodward, Senior Geriatrician, Austin Health

**13:30**  
**Staying strong and growing old: A Koori case study** – Professor Lisa Jackson Pulver, Inaugural Chair of Indigenous Health & Professor of Public Health, UNSW

**13:40**  
**Challenges of positive ageing in nursing homes sector** – A/Professor Christopher Poulos, Senior Rehabilitation Physician & Foundation Hammond Chair of Positive Ageing and Care, UNSW

**13:50**  
**Panel Discussion**  
*Panellists*  
Prof Raina MacIntyre (facilitator), Dr Tim Adair, Dr Michael Chapman, Dr David Gronow, A/Prof Christopher Poulos, Prof Lisa Jackson Pulver, Ms Marie Skinner, Dr Joanne Travaglia, A/Prof Michael Woodward

**14:50**  
**Afternoon tea**

**Panel discussion – Emerging preventable diseases & the future of vaccines in the elderly, Chair – Professor Terry Nolan**

**15:10**  
**Pertussis in the elderly** – Dr David Johnson, Vice President & Global Medical Expert, Sanofi Pasteur

**15:35**  
**What’s on the horizon for vaccines for the elderly?** – Professor Terry Nolan, Head of the School of Population Health, The University of Melbourne; Head of the Vaccine & Immunisation Research Group & Chair of the ATAGI

**15:45**  
**Panel discussion**  
*Panellists*  
Prof Terry Nolan (facilitator); Prof David Goldblatt; Dr David Johnson; Dr François Meurice, Dr Scott Williams

**16.20**  
**Close**
Speakers and panellists biographies

**Aunty Diane Kerr**

Aunty Diane Kerr Wurundjeri Elder has worked tirelessly for the last 25 years on social, health and well-being issues that affect Indigenous People. Her working career has included community work at Dandenong & District Aboriginal Co-operative, Child care, Native Title, link up (part of Stolen Generations), education and cultural awareness to the wider community. All of this has led her to her current path of looking for ways to strengthen the social and emotional well-being of Aboriginal People.

**Mr Michael Moore**

Michael Moore is the CEO of the Public Health Association of Australia. He is a former Minister of Health and Community Care and was an Independent member of the Australian Capital Territory Legislative Assembly for four terms from 1989 to 2001. He was the first Australian Independent Member to be appointed as a Minister to a Government Executive. Michael holds a post-graduate diploma in education, a master’s degree in population health, is an adjunct professor with the University of Canberra and is widely published. He is also a political and social columnist who has served on a range of Boards including the ACT Local Hospital Network, Australian Health Care Reform Alliance, the National Drug Research Institute, ACT Asthma Network and the Institute of Public Administration.

**Mr Max Walker, AM**

The son of a Tasmanian Master Builder and Publican, Max Walker, AM, is internationally renowned for his sportsmanship, integrity, credibility and commercial success. Max has headed his own highly successful company for nearly 30 years, with his most prominent successes including a philanthropist noted media personality, former architect and legendary sportsman (Australian Test cricketer and VFL/AFL footballer).

Max Walker has a diverse range of business interests, extending from public relations, marketing and executive mentoring, to new technology multi-media platforms. He is always willing to share his wisdom, lateral thinking, enthusiasm for life and love of learning.

Max’s varied background and business acumen, combined with a warm, vibrant personality and a genuine interest in people, has made him a sought after professional guest speaker, MC and corporate host.

Max is also a prolific reader, author and contributor to various magazines. To date, he has penned and published 14 books, seven of which have been number one best sellers.

On a personal level, Max is a dedicated family man who enjoys leisure pursuits in the arts, photography, architecture, fine wines, collecting fountain pens and adventurous travel. The lifetime achievements of the legendary cricketer, commentator, author, architect, marketer and master communicator culminated in 2011, with his appointment as a Member of the General Division of the Order of Australia (AM) in the Queen’s Birthday Honours List.
Dr Anthony Newall

Anthony Newall is a Senior Lecturer in health economics at The School of Public Health and Community Medicine (SPHCM), UNSW Australia. He completed his Masters of Public Health (Hons) and PhD at the University of Sydney on the cost effectiveness of vaccination programs in Australia. His major research area is the epidemiology and cost effectiveness of infectious disease prevention. He has published peer-reviewed work on a range of topics, including the epidemiology and cost effectiveness of prevention strategies for influenza (seasonal and pandemic), pneumococcal disease, rotavirus, and human papillomavirus. He is a Honorary Fellow and member of the infectious disease modelling group at the National Centre for Immunisation Research and Surveillance (NCIRS) and has been invited to advise the World Health Organization (WHO) on matters relating to vaccine economics.

Dr Scott Williams

Dr Scott Williams is the Australia and New Zealand Medical Lead and Regional Director of Scientific Affairs for Pfizer Vaccines in Asia Pacific. After receiving his BSc (Hons) from the University of New South Wales Scott spent several years in medical research managing oncology clinical trials in the public and private sector before returning to university to receive his medical degree (MBBS) from the University of Sydney. He joined Wyeth in January 2009 as the Medical Manager for Vaccines and then transitioned to an Associate Medical Director role in Pfizer in early 2010. He was appointed to his most recent position in early 2014.

Professor David Goldblatt

David Goldblatt is Professor of Vaccinology and Immunology and Head of the Immunobiology Unit at the Institute of Child Health, University College London (UCL). He is a Consultant Paediatric Immunologist at the Great Ormond Street Hospital for Children NHS Foundation Trust (GOSH) where he is also Director of Clinical Research and Development and Director of the National Institute for Health Research GOSH/UCL Biomedical Research Centre. He obtained his medical degree from the University of Cape Town, South Africa, his Paediatric qualifications from the Royal College of Physicians (London) and a PhD in Immunology from the University of London, United Kingdom. He has a long-standing interest in the immune response to vaccines and infectious diseases. He has an active research programme studying bacterial conjugate vaccines in the young and the elderly, the ontogeny of the immune response to bacterial carriage and infection and evaluation of functional immunity to *S. pneumoniae* proteins. He is Director of the WHO Reference Laboratory for Pneumococcal Serology based at the UCL Institute of Child Health in London.

Professor Raina MacIntyre

Raina MacIntyre is Professor of Infectious Diseases Epidemiology, Head of the School of Public Health and Community Medicine at UNSW and Director of the CRE. She is also senior principal research fellow at the National Centre for Immunisation Research, where she has worked for 14 years. Within the CRE she leads the research stream on frail elderly vaccinology. She is an international leader in infectious diseases epidemiology, emerging infections and vaccinology, and is involved in numerous influenza and respiratory virus research studies that directly inform national and international policy and practice in communicable disease control. Her vaccinology research is focused on elderly and adult vaccination, including zoster, influenza and pneumococcal disease. She is a member of the WHO SAGE working group on VZV/HZ. She is trained in field epidemiology, and is co-director of the ARM network which provides infectious diseases emergency response surge capacity to the Asia-Pacific region. She has over 200 peer reviewed publications and is on the editorial boards of BMJ Open, Epidemiology and Infection and the Vaccine Council of 100.
Dr Bette Liu

Bette Liu is a medically trained epidemiologist. She completed her medical degree and a Masters of Public Health at the University of Sydney and her doctorate in epidemiology at the University of Oxford. She is a Senior Lecturer in the School of Public Health and Community Medicine UNSW and a NHMRC Career Development Fellow. She has extensive experience in conducting large-scale epidemiological studies involving record linkage and amalgamation of individual data. Her interests include the use of large scale prospective cohorts and data linkage studies to investigate the determinants and sequelae of infectious diseases in adults.

Dr David Gronow

David began his interest in pain medicine whilst an Anaesthetic Registrar at Sydney Hospital in 1973. After Sydney Hospital went through a restructure in the early 1980’s, he took on the challenge of committing to pain relief medicine as a full-time vocation, and left the field of anaesthesiology.

In 1980, he formed a private multidisciplinary pain clinic in the Sydney CBD, the Sydney Pain Management Centre (SPMC). He also joined the team at Westmead Hospital, as a Visiting Medical Officer to their pain clinic.

SPMC developed from the cognitive behavioural inpatient program in 1989 at the Royal Rehabilitation Hospital at Ryde. From 1996, the SPMC moved from Ryde and the Sydney CBD to Parramatta where it continues to provide multidisciplinary pain management to this date. More recently SPMC has opened a practice at the Sydney Adventist Hospital.

David accepted the position of Director of Multidisciplinary Pain Services at Westmead Hospital in 1999, to establish a training program for the Faculty of Pain Medicine.

He was Secretary/Treasurer of the Australian Pain Society from 1985 to 1994, Vice President from 1994 to 1997, and President from 1997 to 2000. From 1986 till 1995, David was Treasurer of the Australian Pain Relief Society, a charity that supports education and research in Pain Medicine, and since then he’s continued as President. He also initiated a PhD scholarship program via APRA with the significant contribution from Geoff Gourlay, which now has 10 scholars.

Dr François Maurice

François Meurice is in charge of Scientific Affairs and Medical Education within Global Medical Affairs at GlaxoSmithKline (GSK) Vaccines, a position he moved to after having been in charge of Global Medical Affairs for Paediatric Vaccines for four years.

Dr Meurice specialised in Tropical Medicine in Antwerp, Belgium. Spending the early years of his medical career practicing medicine in African countries. Subsequently he obtained his diploma in Public Health at the Catholic University of Louvain, and in 1991 joined GSK Vaccines as Clinical Project Manager. He was later appointed Director of Clinical Research & Development and Medical Affairs, North America, Anti-infectives/Biologicals. In 1996, Dr Meurice returned to Belgium to become Director of Project Management for Paediatric Vaccines and later, Group Director of Clinical Development for Adult Vaccines. In 2001, he was appointed as Regional Vice President, Clinical and Medical Affairs for Vaccines in Europe.
Dr Meurice has authored or co-authored a number of papers in peer-reviewed journals, including a large-scale efficacy trial of vaccination against Lyme disease in the US, papers on hepatitis, rotavirus and varicella vaccines, on booster formulation of a tetanus, diphtheria and pertussis (dTPa) vaccine, and comparisons of two hexavalent dTPa combination vaccines. He has also published several scientific papers related to tropical medicine and public health in Africa. Recently, he became involved in general issues around confidence in vaccines.

Dr  Michael Chapman

Michael is a geriatrician and palliative care physician working with the Centre for Palliative Care at St Vincent’s Hospital Melbourne. His current primary role is as a Research Fellow and he is engaged in studies towards a PhD entitled “The ethics of decision making at the end of life”. His other active academic interests include mindfulness as self-care, and the role of frailty in prognostication for older persons. Michael is involved in several palliative care peak-bodies in representative roles including the Australian and New Zealand Society of Palliative Medicine and Palliative Care Australia.

Dr Joanne Travaglia

Joanne Travaglia is a sociologist with a specialisation in health services research, focusing on the implications of patient and clinician vulnerability and diversity on the safety and quality of care. She is currently working on research projects relating to vulnerability and patient safety, professional collaboration and leadership, healthy workplace environments, and consumer engagement. Her interests lie in the application of critical perspectives and critical theory to the creation of patient safety knowledge and practice.

A/Professor Michael Woodward

Michael Woodward is a geriatrician with a major interest in vaccination and the quality use of medications in older people. He oversaw the Australian and New Zealand Society for Geriatric Medicine position statement on vaccination of older people, which is now in its third edition. Prof Woodward is a member of pneumococcal and herpes zoster vaccination advisory boards for several companies and is actively lobbying for an all-of-life vaccine registry.

Prof Woodward currently serves as Director of Aged Care Research at Austin Health, one of Melbourne’s large metropolitan public acute hospitals, is a Fellow of the Australian and New Zealand Society for Geriatric Medicine and of the Australian Association of Gerontology, past President and Fellow of the Australian Wound Management Association, Joint Editor of Wound Practice and Research and also edits Geriatric Therapeutics in the Journal of Pharmacy Practice and Research.

Prof Woodward has almost 100 publications in peer-review journals, many as first author, and has edited several books and chapters across the range of clinical issues in geriatric medicine. He sits on numerous government and other bodies, including advising the Department of Veterans Affairs on which medications to be listed for veterans and other DVA beneficiaries.
Professor Lisa Jackson Pulver

Professor Lisa Jackson Pulver holds the Inaugural Chair of Indigenous Health and is a Professor of Public Health at UNSW. She is also Director of Muru Marri Indigenous Health Unit, is an Adjunct Professor at UC, Group Captain in the RAAF Specialist Reserve (Public Health Epidemiologist), and in 2011 was made a Member of the Order of Australia (AM). She was honoured ‘for service to medical education, particularly through the Muru Marri Indigenous Health Unit at the University of New South Wales, and as a support of educational opportunities for Aboriginal and Torres Strait Islander people.’ Professor Jackson Pulver is the co-founder of the Shalom Gamarada Scholarship Program and has been responsible for enabling over 60 students to receive a residential scholarship on campus for the duration of their (mostly medical) degrees at UNSW.

A/Professor Chris Poulos

Chris Poulos is a senior rehabilitation physician and the Foundation Hammond Chair of Positive Ageing and Care with the University of NSW. Chris is also the current President of the Australasian Faculty of Rehabilitation Medicine and a Director of the Royal Australasian College of Physicians. He holds a Master’s Degree in health policy and management, and in 2012 was awarded his PhD for work on utilisation review and the rehabilitation patient journey. He has many years of clinical experience working with people with disabling conditions, helping them to achieve their maximum level of functioning, quality of life and independence. He is an experienced researcher and teacher in the areas of rehabilitation and aged care and is a Visiting Principal Fellow with the Australian Health Services Research Institute, University of Wollongong. In addition, he has undertaken a number of consultancies about the delivery of rehabilitation and sub-acute care services. His main clinical and research focus is on helping individuals and their carers achieve whole person wellness and developing workforce models to promote this aim.

Dr Tim Adair

Dr Tim Adair is a demographer who has worked with the National Seniors Productive Ageing Centre since 2011, and as the Centre Director since December 2012. He has extensive experience, both in Australia and internationally, working within the government, university and private sectors in the analysis of a wide range of key policy issues. In particular, his research has focused on the quantitative analysis of government programs on health outcomes and the design and implementation of surveys and other data collections. He has a PhD in Demography from the Australian National University and completed a Postdoctoral Fellowship at the MEASURE DHS Program at Macro International (now ICF Macro) in the USA.

Ms Marie Skinner

Marie Skinner is Senior Policy Adviser for National Seniors Australia, a member-based organisation advocating for the needs of the over 50s. Marie worked previously in public health policy and health and drug education with the Queensland and Northern Territory Governments. She has a keen interest in maintaining healthy and engaged communities through equity of access to public health, aged care, disability and housing services. Research conducted by National Seniors Productive Ageing Centre has provided valuable insights into seniors contributions to the economy and society generally, and their awareness, experience and attitudes towards immunisation.
**Professor Terry Nolan**

BMedSc MBBS (UWA) PhD (McGill) FRACP FAFPHM

Professor Terry Nolan is a paediatrician, clinical epidemiologist and clinical triallist. He is the Foundation Head of the School of Population and Global Health at the University of Melbourne, where he is also Associate Dean in the Faculty of Medicine, Dentistry and Health Sciences. He also has appointments to the Murdoch Childrens Research Institute and to the Royal Children’s Hospital in Melbourne. He trained at the University of Western Australia, the Royal Children’s Hospital in Melbourne, the Montréal Children’s Hospital, and completed a PhD in epidemiology and biostatistics at McGill University. His research (through the Vaccine and Immunisation Research Group, VIRGo) is in the epidemiology of vaccine-preventable disease and clinical trials of new vaccines. He chairs the Commonwealth Government’s Australian Technical Advisory Group on Immunisation (ATAGI). He is a member of the World Health Organisation SAGE (Scientific Advisory Group of Experts) immunisation advisory group.

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**Dr David Johnson**

David R. Johnson, MD, MPH, is a Vice President and Global Medical Expert at Sanofi Pasteur, currently based in Swiftwater, Pennsylvania. His responsibilities include global support for and coordination of medical affairs activities regarding pertussis vaccines. He completed in mid-2012 a multi-year expatriate assignment as senior director in the company’s Global Medical Affairs department in Lyon, France.

Prior to joining Sanofi Pasteur in 2004, Dr. Johnson served in various public health leadership positions spanning more than a dozen years at the state health department in Michigan, where he was very involved in immunization issues.

Dr. Johnson completed his medical studies at the University of Wisconsin. He became board certified in paediatrics after working four years as a resident and chief resident physician at Cook County Hospital in Chicago. He spent two years with the Centers for Disease Control and Prevention (CDC) in the Epidemic Intelligence Service, assigned to the state of Michigan. He received a Master of Public Health degree from the University of Michigan in 1993. He has an extensive bibliography of publications and presentations, mostly pertaining to public health aspects of communicable disease prevention and control. His honours include a U.S. Public Health Service citation and distinguished service awards from both the Michigan Association of Public Health Physicians and from the Michigan Public Health Association.

Dr. Johnson has participated in a number of medical and public health organizations. He chaired the infectious disease policy committee and was a member of the executive committee for the Association of State and Territorial Health Officials. He served on the CDC’s Advisory Committee on Immunization Practices (ACIP), on the Institute of Medicine Committee for the Evaluation of Vaccine Purchase Financing, and as a member of the National Vaccine Advisory Committee representing vaccine manufacturers.

Dr. Johnson has taught graduate courses in epidemiology at several institutions, including the University of Michigan’s School of Public Health. He maintains his US board certification in paediatrics. For nearly two decades after completing his clinical training, he provided direct patient care and mentored medical students / residents in various pediatric outpatient settings.

Dr. Johnson has diverse interests beyond medicine and public health. He enjoys reading, home renovation projects, various sports, back-country hiking and occasional mountain climbing.
We acknowledge that Aboriginal and Torres Strait Islander peoples have inhabited Australia for well over 50,000 years and that their unique cultures and identities are bound up with the land and sea. We acknowledge the people of the Kulin Nation (Melbourne), past and present.