

## Centre For Health Economics Seminar Series 2016

### ECONOMIC EVALUATION OF VACCINATION PROGRAMS

**Presenter:** Dr. Anthony Newall, UNSW  
**Date:** Wednesday 5 October  
**Time:** 12.00pm -1.00pm  
**Venue:** RB Scotton Room  
Centre for Health Economics



#### Abstract:

**Abstract:** The seminar will discuss the research conducted by Associate Professor Anthony Newall on the cost-effectiveness of vaccination strategies. One focus of this work has been the use of integrated (dynamic) infectious disease transmission and economic evaluation models. These models are able to incorporate herd protection through a variable force of infection (i.e. which is dynamic rather than static) which is related to the proportion of the population that is infectious at any given time point. The inclusion of herd protection effects can be highly influential in determining the cost-effectiveness of vaccination programs. The seminar will also present recent work conducted to assess the value for money achieved by vaccination programs after they are implemented. As opposed to pre-implementation economic analyses, retrospective economic evaluation offers the ability to use data collected on the impact of vaccination programs after they are funded. For example, the use of disease surveillance data can help to substantially reduce the uncertainty that often exists when trying to predict the impact and cost-effectiveness of a vaccination program before implementation.

#### Presenter:

Dr. Anthony Newall is an Associate Professor in Health Economics at The School of Public Health and Community Medicine (SPHCM), UNSW Australia. He is also an Honorary Fellow at the National Centre for Immunisation Research and Surveillance (NCIRS). He completed his Masters of Public Health (Hons) and PhD at the University of Sydney on the cost-effectiveness of vaccination programs.

His main research area is the economic evaluation of infectious disease prevention strategies, as well as the statistical and epidemiological analyses that inform these evaluations. He has over 50 peer-reviewed publications on a range of vaccine preventable diseases, including the epidemiology and cost-effectiveness of prevention strategies for influenza (seasonal and pandemic), pneumococcal disease, rotavirus, and human papillomavirus.

He has been appointed to the World Health Organization (WHO) Roster of Experts in the area of Health Economics and has been a Visiting Scholar at the US National Institutes of Health (NIH). He has received several awards, including the prestigious Aileen Plant Memorial Prize, the Dean's Rising Star Award by the Faculty of Medicine, and the Bernie J. O'Brien award from the International Society for Pharmacoeconomics and Outcomes Research (ISPOR).

#### VISITORS ARE MOST WELCOME

The Seminar Series is free of charge. For further information please phone 9905 0733 or email [che-enquiries@monash.edu](mailto:che-enquiries@monash.edu)

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