Choosing the best test for monitoring

Speaker: Andrew Hayen, Associate Professor at the School of Public Health & Community Medicine, UNSW

Venue: Room 305, Level 3, Samuels Building, UNSW upper campus, Randwick

Date: Wednesday 20 November 2013

Time: 12:1:00pm (light refreshment is provided)

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Parking: Available on L5 of the parking station; enter via Gate 11 Botany St, Randwick

Map: http://www.unsw.edu.au/maps/maps.html

ABSTRACT

Monitoring (or follow-up) is an important component of patient care in medicine. In the talk, I will outline the different phases of monitoring: pre-treatment monitoring, initial response monitoring, and on-treatment long-term monitoring. Because there may be more than one test that can be used for monitoring, it is important to establish criteria to choose among tests. I will discuss the following criteria: validity, responsiveness, detectability of long-term change, and practicality. The criteria will be illustrated with practical examples.

BIOGRAPHY

Andrew Hayen is Associate Professor of Biostatistics at the School of Public Health and Community Medicine at UNSW. Andrew is a graduate and university medallist in mathematical statistics from the University of Sydney. Andrew also holds a PhD in mathematical statistics and a Master of Biostatistics from the University of Sydney. Andrew completed the NSW Biostatistical Officer Training Program at the NSW Department of Health. Andrew's previous academic appointments were at the University of Sydney School of Public Health, the NSW Injury Risk Management Research Centre and the School of Mathematics and Statistics at the University of New South Wales.

Andrew's research interests are in the statistical methods used in diagnostic tests, screening and monitoring (or follow-up) and risk prediction in medicine. He is also interested in applications, including in cardiovascular disease, eye health, osteoporosis, and kidney disease. His interests also include applied studies, such as randomised controlled trials and meta-analyses. He is currently a chief investigator on NHMRC grants looking at the diagnosis of glaucoma and the use of biomarkers in predicting cardiovascular events in people on dialysis. He also holds an AusAID grant on health financing in Timor Leste and Fiji.

Andrew teaches introductory and advanced statistical methods to Master of Public Health students at UNSW, and supervises postgraduate research students. Andrew is currently a council member of the Australasian Epidemiological Association, and is on the editorial board of the journal Child: Health, Care and Development. He commences as MPH Director for SPHCM in January 2014.