

# Centre for Health Economics

## Seminar Series

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### **‘Performance assessment in the context of multiple objectives: A multivariate multilevel analysis’**

Presented by

**Dr Katharina Hauck**

**Date:** Wednesday 15<sup>th</sup> June 2005  
**Time:** 4:00-5:00pm  
**Venue:** RB Scotton Room  
2<sup>nd</sup> Floor, Building 75  
Monash University  
Clayton, 3800



The pursuit of multiple objectives by public sector organisations makes it difficult to assess and compare their performance. A single index of performance requires judgements to be made about the relative value of each objective. This issue should not be subsumed as part of the technical process. An alternative approach is to estimate a multivariate system of equations in which objectives are analysed individually but correlations across objectives are considered explicitly. We analyse the performance of English health authorities against thirteen objectives using hierarchical data for electoral wards that are nested within health authorities. We find evidence of correlation across objectives, suggesting that some are complementary, some redundant, and others subject to trade-off. The estimates generated when assessing performance with multivariate multilevel models as compared to ordinary least squares or multilevel models differ, with the magnitudes varying by objective.

#### **Presenter**

Dr Katharina Hauck has recently joined the Centre for Health Economics as a Senior Research Fellow. Her previous appointments were at the Centre for Health Economics, University of York (UK), and at the World Health Organization in Geneva (Switzerland). Katharina has a PhD in Economics (University of York), MSc in Health Economics (University of York), and a first degree in Economics (Technische Universität Berlin, Germany). Katharina's main research interest centres on the quantitative analysis of important issues in health policy. Her most recent contributions focused on the use of multilevel models for performance measurement of health care organizations, and of panel data models for the analysis of health inequalities. Katharina has worked on projects for a range of policy partners, such as the Department of Health (UK) and the World Bank (USA). At the CHE, she will mainly work on a project on modeling the economics of the Australian health care system (MEAHCS) funded by a NHMRC health services research grant.

**VISITORS ARE MOST WELCOME.** The Seminar Series is free of charge. For confirmation of your attendance and further information please telephone 9905 0733 or email [che@buseco.monash.edu.au](mailto:che@buseco.monash.edu.au)