

Estimating health opportunity costs: HOW?

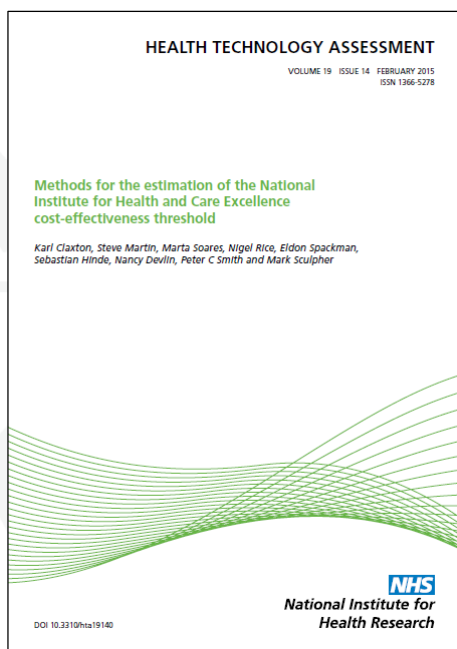
James Lomas, PhD

Research Fellow

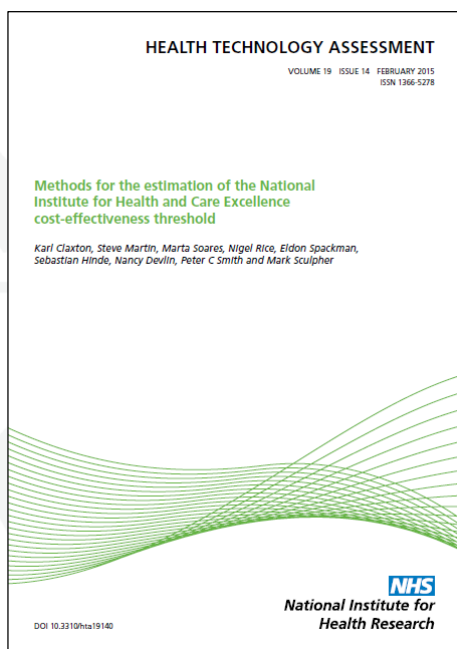
Centre for Health Economics

University of York, UK

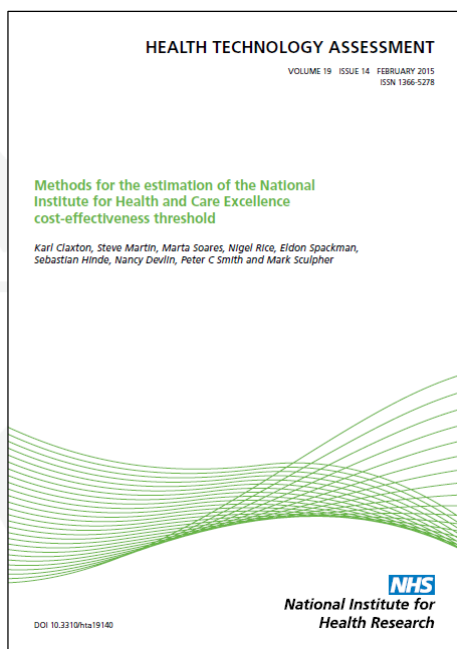
“Any student of Econ 101 knows that economists measure costs by opportunity costs, meaning everything that is given up to get something else.”
Alan Krueger



“The general approach taken is to use routinely available data to look at the relationship between overall NHS expenditure and patients’ health outcomes. By exploiting differences between PCTs in expenditure and outcomes, it is possible to infer the costs of generating health improvement from NHS services at the margin. In principle, this is what is needed as the basis of the NICE cost-effectiveness threshold as it provides an indication of the health forgone through the services displaced by the additional budget effect of the Institute’s guidance.”

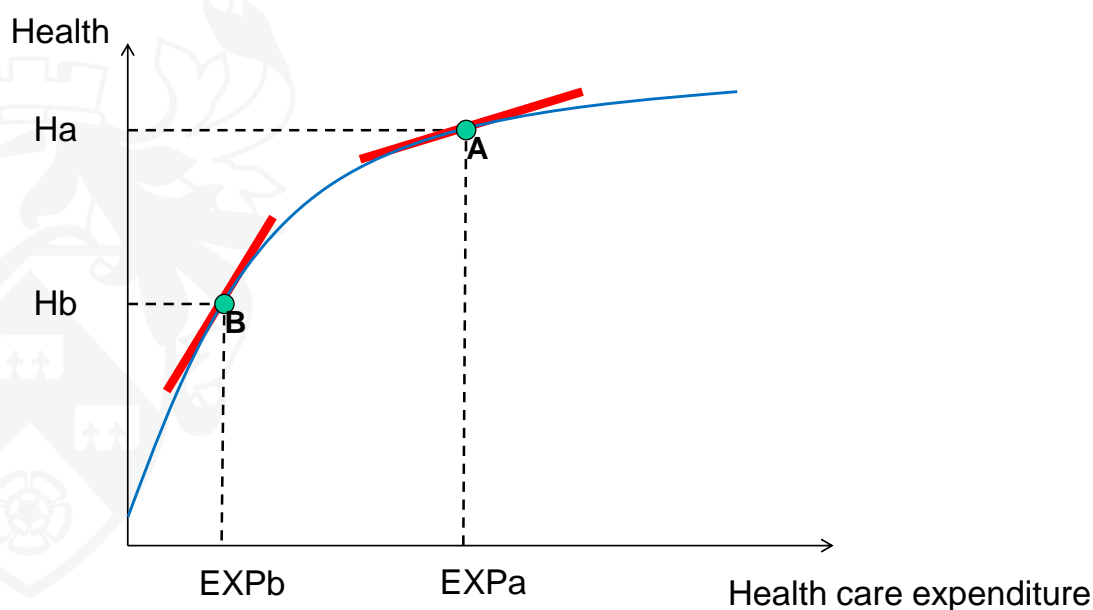


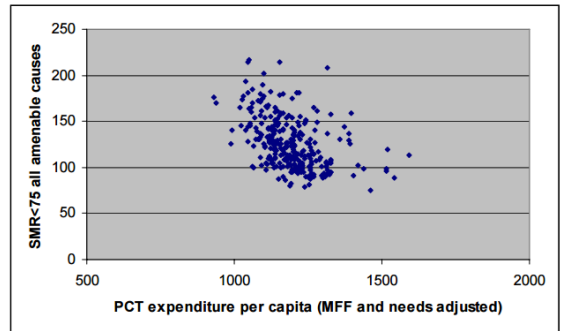
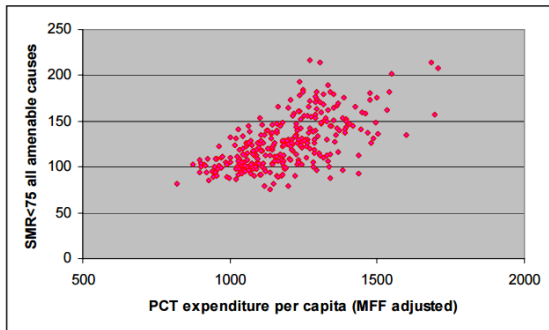
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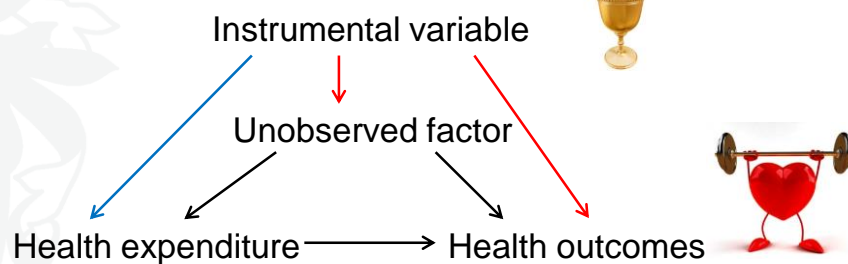
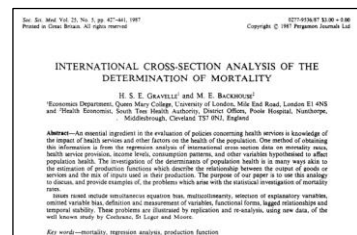
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Poll: 4. Have you got access to the kinds of administrative data required to estimate health opportunity costs in your jurisdiction?

Econometric challenges

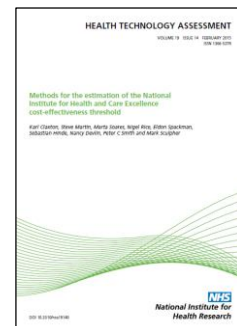
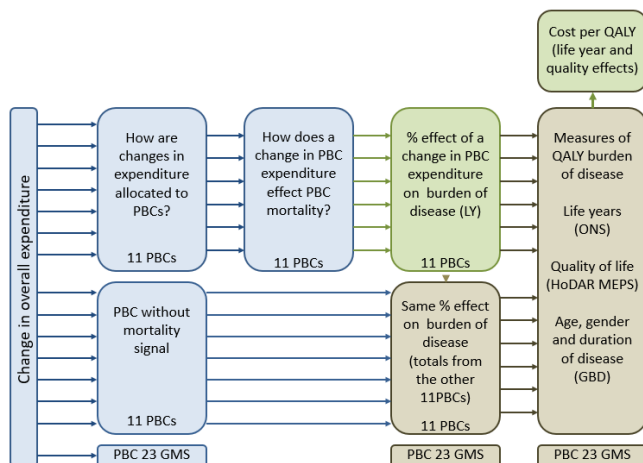
- simultaneous equation bias
- multicollinearity
- selection of explanatory variables
- omitted variable bias
- definition and measurement of variables
- functional forms
- lagged relationships



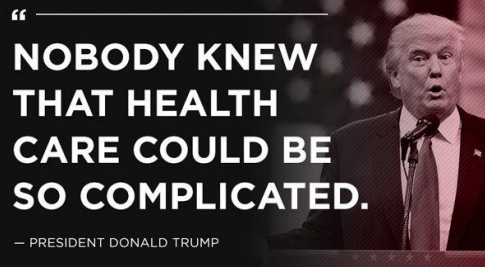
Examples of instrumental variables used

IV	Country
Proportion of households that are lone pensioners (etc)	
Proportion of population providing unpaid care	 
Number of graduating nurses	
Proportion of nurses nearing retirement age	
Public expenditure	
Institutional arrangements (funding formula rules)	

From mortality to a generic health measure



Health opportunity costs in more plural systems



New technology included in package

Increase in premium

Reduced affordability causes increase in uninsured

Losing coverage increases mortality

Roughly \$100k per QALY



STATE MEDICAID EXPANSIONS AND MORTALITY, REVISITED: A COST-BENEFIT ANALYSIS

BENJAMIN D. SOMMERS

ABSTRACT
Previous research found that Medicaid expansions in New York, Arizona, and Maine in the early 2000s reduced mortality. I revisit this question with improved data and methods, exploring distinct causes of death and presenting a cost-benefit analysis. Differences in differences analysis using a propensity score control group shows that all-cause mortality declined by 6 percent, with the most robust reductions for health-care amenable causes. HIV-related mortality (affected by the recent introduction of antiretrovirals) accounted for 20 percent of the effect. Mortality changes were closely linked to county-level coverage gains, with one life saved annually for every 239 to 316 adults gaining insurance. The results imply a cost per life saved ranging from \$327,000 to \$867,000 which compares favorably with most estimates of the value of a statistical life.

KEYWORDS: Medicaid, health insurance, mortality
JEL CLASSIFICATION: I13, I18, I36, I31

Deriving an Opportunity Cost-Based Threshold for CEA in the United States

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Department of Population Health Sciences
University of Wisconsin-Madison

International Health Economics Association
July, 2017

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Poll: 5. Are you aware of ongoing research of this kind in your jurisdiction?

Elements of Value

Challenge: Map each element into an underlying economic framework for value assessment.



Acknowledgements

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