

# Methods For The Economic Evaluation Of Health Care Programmes

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## JADA MURRAY

Methods for the economic evaluation of health care programmes

Oxford University Press

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**Developing Good Practice** SAGE Publications

"This book is an introduction to economic evaluation for those with little or no knowledge of economics or health economics. *Essentials of Economic Evaluation in Healthcare* gives an overview of economic issues specific to healthcare, and describes the main types of economic evaluation: cost effectiveness, cost utility and cost benefit analysis. The use of decision analysis to design and carry out economic evaluations is discussed. Preferred statistical methods for handling costs, current approaches to dealing with uncertainty and quantifying patient preferences using discrete choice experiments are explained. Each chapter contains worked examples and questions. With

increasing pressure on national healthcare budgets, all healthcare professionals should have a basic understanding of the finite nature of healthcare resources, and the need to make choices between treatments based on a cost-benefit comparison. This book will be invaluable to pharmacists and pharmacy students as well as to other healthcare professionals, researchers and managers." -- publisher website.

John Wiley & Sons

This book provides the reader with a comprehensive set of instructions and examples of how to perform a cost-benefit analysis (CBA) of a health intervention. Developed out of a course run by Jordan Louviere at the University of Technology, Sydney, entitled *An Introduction to Stated Preference Discrete Choice Modelling* it has a particular focus on the use of stated preference survey methods to identify consumer preference data, as well as the use of recent developments in cost-effectiveness analysis within a CBA framework. In doing so, the most up to date methodologies for CBA are compiled in a comprehensive manner with the aim of advancing the methodology of CBA in healthcare.

ABOUT THE SERIES Series editors Alastair Gray and Andrew Briggs Economic evaluation of health intervention is a growing specialist field, and this series of practical handbooks tackles, in depth, topics superficially addressed in more general economics books. Each volume includes illustrative material, case histories and worked examples to encourage the reader to apply the methods discussed, with supporting material provided online. The series is aimed at health economists in academia, the pharmaceutical industry and the health sector, those on advanced health economics courses, and health researchers in associated fields.

**Applied Methods of Cost-Benefit Analysis in Health Care** Academic Press

Economic Evaluation in Genomic Medicine introduces health economics and economic evaluation to genomic clinicians and researchers, while also introducing the topic to health economists. Each chapter includes an executive summary, questions, and case studies, along with supplementary online materials, including process guides, maps, flow charts, diagrams, and economic evaluation spreadsheets to enhance the learning process. The text can easily be used as course material for related graduate and undergraduate courses, providing a succinct overview of the existing, state-of-the-art application of economic evaluation to genomic healthcare and precision medicine. Interrelates economic evaluation and genomic medicine Instructs healthcare professionals and bioscientists about economic evaluation in genomic medicine Teaches health economists about application of economic evaluation in genomic medicine Introduces health economics and economic evaluation to clinicians and researchers involved in genomics Includes process guides, maps, flow charts and diagrams

**Prevention Effectiveness** McGraw-Hill Education (UK)

Non-communicable diseases (NCDs) are the leading cause of death worldwide, contributing to over 73% of all deaths annually. Each day NCDs cause more than 100,000 deaths, 80% of which occur in low- and middle-income countries. NCDs, however, are largely preventable, and a great deal of technical knowledge exists about how to prevent and manage them. Why, then, have we, as a global community, not been more successful at reducing this NCD burden? Does a universal problem not have a universal solution? Created by an international consortium of experts, this informative and accessible book provides practical guidelines, key learning points, and dynamic, real-world case studies to aid NCD program managers, policy officers and decision-makers in low- and middle-income countries, so that they can assess interventions for the prevention and control of NCDs. The book was commissioned by the Prince Mahidol Award Conference (PMAC), an annual international conference centred on policy of global significance related to public health. Non-Communicable Disease Prevention: Best Buys, Wasted Buys and Contestable Buys emphasises the importance of context in NCD control and prevention, arguing that the success of an intervention lies in an ability to respond to local needs and environments. The book comprises ten chapters, which collectively explore the reasons behind, and strategies for, preventing and managing the NCD burden. It spans key themes such as political economy, the transferability of economic evidence, the role of cross-sectoral policies, the importance of deliberative processes, and health technology assessment. This book is written for the benefit of the global health community, and is primarily targeted at those individuals who are involved in NCD programs. This book will also be of interest to NCD champions, policy advocates, and educators spearheading the movement for increased visibility of NCDs.

Methods for an Economic Evaluation of Soil Conservation Practices OUP Oxford

In today's world of scarce resources, determining the optimal allocation of funds to preventive health care interventions (PHIs) is a challenge. The upfront investments needed must be viewed as long term projects, the benefits of which we will experience in the future. The long term positive change to PHIs from economic investment can be seen across multiple sectors such as health care, education, employment and beyond. Applied Health Economics for Public Health Practice and Research is the fifth in the series of Handbooks in Health Economic Evaluation. It presents new research on health economics methodology and application to the evaluation of public health interventions. Looking at traditional as well as novel methods of economic evaluation, the book covers the history of economics of public health and the economic rationale for government investment in prevention. In addition, it looks at principles of health economics, evidence synthesis, key methods of economic evaluation with accompanying case studies, and much more. Looking to the future, Applied Health Economics for Public Health Practice and Research presents priorities for research in the field of public health economics. It acknowledges the role played by natural environment in promoting better health, and the place of genetics, environment and socioeconomic status in determining population health. Ideal for health economists, public health researchers, local government workers, health care professionals, and those responsible for health policy development. Applied Health Economics for Public Health Practice and Research is an important contribution to the economic discussion of public health and resource allocation.

**An Applied Approach Using SAS & STATA** Oxford University Press, USA

Preceded by: Cost-effectiveness in health and medicine / edited by Marthe R. Gold ... [et al.]. New York: Oxford University Press, 1996.

*A Value-Based Prescription for Drug Costs* Oxford University Press, USA

Methods for the Economic Evaluation of Health Care Programmes Oxford University Press, USA

Measuring and Valuing Health Benefits for Economic Evaluation Oxford University Press

This book contains a collection of works showcasing the latest research into global health economics conducted by leading experts in the field from the Centre for Health Economics (CHE) at the University of York and other partner research institutions. Each chapter focuses upon an important topic in global health economics and a number of separate research projects. The discussion delves into health care policy evaluation; economic evaluation; econometric and other analytic methods; health equity and universal health coverage; consideration of cost-effectiveness thresholds and opportunity costs in the health sector; health system challenges and possible solutions; and others. Case study examples from a variety of low- and middle-income countries (LMIC) settings are also showcased in the final part of this volume. The research presented seeks to contribute toward increasing understanding on how health policy can be enhanced to improve the welfare of LMIC populations. It is strongly recommended for public health policymakers and analysts in low- and middle-income country settings and those affiliated to international health organizations and donor organizations.

**Economic Evaluation in Health Care** Oxford University Press

The prescription drug market -- Proposed solutions for rising drug prices -- Measuring the value of prescription drugs -- Measuring drug value : whose job is it anyway? -- Institute for Clinical and Economic Review (ICER) -- Other US value assessment frameworks -- Do drugs for special populations warrant higher

prices? -- Improving value measurement -- Aligning prices with value -- The path forward.

*Economic Evaluations in Exploration* National Academies Press  
It is becoming increasingly important to examine the relationship between the outcomes of a clinical trial and the costs of the medical therapy under study. The results of such analysis can affect reimbursement decisions for new medical technologies, drugs, devices or diagnostics. It can aid companies seeking to make claims about the cost-effectiveness of their product, as well as allowing early consideration of the economic value of therapies which may be important to improving initial adoption decisions. It is also vital for addressing the requirements of regulatory bodies. *Economic Evaluation in Clinical Trials* provides practical advice on how to conduct cost-effectiveness analyses in controlled trials of medical therapies. This new edition has been extensively rewritten and revised; topics discussed range from design issues such as the types of services that should be measured and price weights, to assessment of quality-adjusted life years. Illustrative materials, case histories and worked examples are included to encourage the reader to apply the methods discussed. These exercises are supported with datasets, programmes and solutions made available online.

**Health Economics** Methods for the Economic Evaluation of Health Care Programmes

"To accompany *Methods for Economic Evaluation of Health Care Programmes 2e*', this book is a thorough and rigorous discussion of the methodological principles and recent advances in the field of theory and practice of economic evaluation in health care."-- publisher website.

*Normative and Empirical Challenges* Oxford University Press, USA  
Given the increased concern about value for money in the health care sector there is a growing literature in the economic evaluation of health care programmes. However, to date there are no texts that discuss in detail the methods used in cost-effectiveness, cost-benefit, and cost-utility studies for those who want to undertake such studies or to assess study results critically. *Methods for the economic evaluation of health care programmes* provides the reader with a well equipped methodological tool-kit in order that he or she will be better prepared to tackle aspects of economic evaluation methodology. This is accomplished by including discussions of many casestudies, clear illustrations, and a number of simple exercises.

**Global Health Economics: Shaping Health Policy In Low- And Middle-income Countries** Oxford University Press  
Defining the value in health care and elaborating appropriate value-propositions for health care beneficiaries poses numerous empirical and normative challenges. Different methods of Health Technology Assessments (HTAs) embedded in various interdisciplinary approaches of defining the value of health care have been established in recent years. Current initiatives aim to develop and combine transnational attempts to define an overall acceptable range for value-based healthcare interventions. In this book international scholars with background in medicine, philosophy, health-economics and further disciplines, who participated in an interdisciplinary conference in 2019 combine in-depth analyses with reflections informed by multidisciplinary debates on a pressing issue in healthcare.

**A Toolbox** Springer

Most economic evaluations of health care programmes at the moment are cost effectiveness and cost-utility analyses. The problem with these methods is that their theoretical foundations are unclear. This has led to confusion about how to define the costs and health effects and how to interpret the results of these studies. In the environmental and traffic safety fields it is instead common to carry out traditional cost-benefit analyses of health

improving programmes. This striking difference in how health programmes are assessed in different fields was the original motivation for writing this book. The aim of the book is to try and provide a coherent framework within cost-benefit analysis and welfare economics for the different methods of economic evaluation in the health care field. The book is written in an easily accessible manner and several examples of applications of the different methods are provided. It is my hope that it will be useful both for teaching purposes and as a guide for practitioners in the field. Glenn C. Blomquist, John D. Graham, Rich O'Connor and four anonymous referees provided helpful comments on previous versions of the manuscript. I would also like to express my gratitude to the following persons for helping me to prepare the manuscript: Carl-Magnus Berglund, Carin Blanksvard, Ann Brown, and Ziad Obeid.

*An Evidence-Based Approach* Springer Science & Business Media  
Economic evaluation has become an essential component of clinical trial design to show that new treatments and technologies offer value to payers in various healthcare systems. Although many books exist that address the theoretical or practical aspects of cost-effectiveness analysis, this book differentiates itself from the competition by detailing  
*The Right Price* CRC Press

The field's bestselling reference, updated with the latest tools, data, techniques, and the latest recommendations from the Second Panel on Cost-Effectiveness in Health and Medicine  
*Cost-Effectiveness Analysis in Health* is a practical introduction to the tools, methods, and procedures used worldwide to perform cost-effective research. Covering every aspect of a complete cost-effectiveness analysis, this book shows you how to find which data you need, where to find it, how to analyze it, and how to prepare a high-quality report for publication. Designed for the classroom or the individual learner, the material is presented in simple and accessible language for those who lack a biostatistics or epidemiology background, and each chapter includes real-world examples and "tips and tricks" that highlight key information. Exercises throughout allow you to test your understanding with practical application, and the companion website features downloadable data sets for students, as well as lecture slides and a test bank for instructors. This new third edition contains new discussion on meta-analysis and advanced modeling techniques, a long worked example using visual modeling software TreeAge Pro, and updated recommendations from the U.S. Public Health Service's Panel on Cost-Effectiveness in Health and Medicine. This is the second printing of the 3rd Edition, which has been corrected and revised for 2018 to reflect the latest standards and methods. Cost-effectiveness analysis is used to evaluate medical interventions worldwide, in both developed and developing countries. This book provides process-specific instruction in a concise, structured format to give you a robust working knowledge of common methods and techniques. Develop a thoroughly fleshed-out research project Work accurately with costs, probabilities, and models Calculate life expectancy and quality-adjusted life years Prepare your study and your data for publication Comprehensive analysis skills are essential for students seeking careers in public health, medicine, biomedical research, health economics, health policy, and more. *Cost-Effectiveness Analysis in Health* walks you through the process from a real-world perspective to help you build a skillset that's immediately applicable in the field.

**An Introduction to Economic Evaluation** Springer Science & Business Media

The third volume in the *Handbooks in Health Economic Evaluation* series, this book provides the reader with a comprehensive set of instructions and examples of how to

perform an economic evaluation of a health intervention. It focuses solely on cost-effectiveness analysis in health care. The book is developed out of the Advanced Methods of Cost-Effectiveness Analysis course taught at the University of Oxford and the four main sections mirror the four principal components of the course: Outcomes, Costs, Modelling using decision trees and Markov models, and Presenting cost-effectiveness results.

**ABOUT THE SERIES** Series editors Alastair Gray and Andrew Briggs Economic evaluation of health intervention is a growing specialist field, and this series of practical handbooks tackles, in depth, topics superficially addressed in more general economics books. Each volume includes illustrative material, case histories and worked examples to encourage the reader to apply the methods discussed, with supporting material provided online. The series is for health economists in academia, the pharmaceutical industry and the health sector, those on advanced health economics courses, and health researchers in associated fields.

*Economic Evaluation in Genomic Medicine* World Scientific

The past decade has seen increased attention to cost-effectiveness and benefit-cost analysis in education as administrators are being asked to accomplish more with the same or even fewer resources, philanthropists are keen to calculate their "return on investment" in social programs, and the general public is increasingly scrutinizing how resources are allocated to schools and colleges. *Economic Evaluation in Education: Cost-Effectiveness and Benefit-Cost Analysis* (titled *Cost-Effectiveness Analysis: Methods and Applications* in its previous editions) is the only full-length book to provide readers with the step-by-step methods they need to plan and implement a benefit-cost analysis in education. Authors Henry M. Levin, Patrick J. McEwan, Clive Belfield, Alyshia Brooks Bowden, and Robert Shand examine a range of issues, including how to identify, measure, and distribute costs; how to measure effectiveness, utility, and benefits; and how to incorporate cost

evaluations into the decision-making process. The updates to the Third Edition reflect the considerable methodological development in the evaluation literature, and the greater empiricism practiced by education researchers, to help readers learn to apply more advanced methods to their own analyses.

[Building Economics: Methods of economic evaluation](#) Oxford University Press

As public accountability has increased and resources have become scarcer, public health, like clinical medicine, has been forced to re-examine the benefits and costs of its activities. Decision and economic analysis are basic tools in carrying out that mission. These methods have become standard practice in clinical medicine and health services research. This book, now in its second edition, was written in an effort to apply and adapt that experience with public health situations. The book was originally written to introduce Centers for Disease Control and Prevention staff to the concepts of decision and economic analysis, to provide guidance on methods to maximize comparability of studies, and to provide access to frequently used reference information. It has been adapted to meet the needs of scientists and managers in state and local health departments and managed care organizations as well as students in schools of public health and clinicians for an introductory text --a text that shows how these methods can be applied in population-based practice, to facilitate better comparability of studies, and to solidify understanding of the scientific basis for use of these tools in decision making. Decision makers will learn how these studies are conducted so they can be critical consumers-- understanding the strengths and limitations- and apply findings to policy and practice. The second edition updates and expands upon the standard methodology for conducting prevention effectiveness analyses. Each chapter has been revised or re-written. The chapters on measuring effectiveness, decision analysis, and making information useful for decision makers as well as several appendices are entirely new.

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