



# Cost-Effectiveness Analysis in Health: A Practical Approach

By Peter Muennig, Mark Bounthavong

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**Cost-Effectiveness Analysis in Health: A Practical Approach** By Peter Muennig, Mark Bounthavong

**The field's bestselling reference, updated with the latest tools, data, and techniques**

*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.

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.

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### Editorial Review

From the Back Cover

#### The Bestselling Reference, Updated with the Latest Tools, Data, and Techniques

Now in its third edition, the revised and updated *Cost-Effectiveness Analysis in Health: A Practical Approach* offers a comprehensive resource for evaluating the interventions and programs that are designed to improve health. Step by step, the authors reveal how to conduct practical cost-effectiveness analyses that has worldwide applications. Without relying on abstract theory or complicated models, *Cost-Effectiveness Analysis in Health* shows how to work with the fundamentals. The authors offer the information needed to develop a research question, find and evaluate data, build a decision model, stress-test the model, interpret the results, and summarize the findings in a report using the most up-to-date techniques and software.

The text's illustrative exercises provide a guide through the process of obtaining electronic data, analyzing the medical literature, building a decision analysis tree, and conducting a sensitivity analysis.

*Cost-Effectiveness Analysis in Health* includes:

- The principles of cost-effectiveness analysis
- The eight steps to a perfect research project
- Tools for evaluating the interventions and programs meant to improve health
- A review of probabilities and decision analysis models
- A basic introduction to biostatistics and epidemiology
- Information for preparing your study for publication

The revised edition of *Cost-Effectiveness Analysis in Health* gives students a basic understanding of and the tools needed to conduct cost-effectiveness analysis.

About the Author

**PETER MUENNIG, MD, MPH**, is a professor in the Department of Health Policy and Management at Columbia University.

**MARK BOUNTHAVONG, PharmD, MPH** is a pharmacoeconomist at the Veterans Affairs San Diego Health Care System and an adjunct faculty member of the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California, San Diego.

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