

Economic Evaluation of Public Health Problems in sub-Saharan Africa

Edited by
Josef Muthuri Kirigia



University of Nairobi Press

Contents

List of Contributors	vii
Preface	ix
Acknowledgements	xiii

Introduction

Burden of Disease and Health System Financing in the African Region	1
---------------------------------------------------------------------------	---

Part 1: Place of Economic Evaluation in Health Economics 17

1. Introductory Lecture on Economic Evaluation	19
2. Health Economics: Potential Applications in HIV/AIDS Control in Africa	23

Part 2: Developing Knowledge and Skills in Costing 39

3. A Lecture on Cost Analysis	41
4. Introduction to Costing Concepts and their Measurement	47
5. A Case Study on Costing of Health Education Visits Intervention	67
6. A Case Study on Costing of Vented Improved Pit Latrines	77
7. A Case Study on Costing of Schistosomiasis Treatment Regimens	89
8. A Lecture on Costing of Fixed Health Facilities	113
9. A Case Study on Costing of Fixed Health Facilities	117
10. A Cost Analysis of Kilifi and Malindi Public Hospitals in Kenya	125
11. The Cost of Treating Paediatrics Malaria Admissions and the Potential Impact of Insecticide-treated Mosquito Nets on Hospital Expenditure	137

Part 3: Cost Maximization Analysis and Output Maximization Analysis 147

12. A Lecture on Cost Minimization Analysis and Output Maximization Analysis	149
13. A Cost Minimization Analysis Case Study on Vector Control in Bura State	153

Part 4: Cost-Effectiveness Analysis	165
14. A Lecture on Cost-Effectiveness Analysis	167
15. A Hypothetical Case Study on Cost Effectiveness Analysis of Strategies to Combat HIV/AIDS in Africa	177
16. Cost-Effectiveness Analysis of Establishing a Distance-Education Programme for Health Personnel in Swaziland	181
Part 5: Cost-Utility Analysis	199
17. A Lecture on Cost-Utility Analysis	201
18. A Case Study on Cost-Utility Analysis	211
19. Economic Evaluation in Schistosomiasis: Valuation of Health States Preferences	223
20. Health Impacts of Epidemiological Environment Change: Measurement Issues	231
21. Economic Evaluation in Schistosomiasis: Using the Delphi Technique to Assess Effectiveness	241
22. Cost-Utility Analysis of Schistosomiasis Intervention Strategies in Kenya	259
Part 6: Cost-Benefit Analysis	289
23. A Lecture on Cost-Benefit Analysis	291
24. A Case Study on Cost-Benefit Analysis	311
25. Willingness-to-pay for Schistosomiasis-related Health Outcomes in Kenya	323
26. A Cost-Benefit Analysis of Preventive Schistosomiasis Interventions in Kenya	343
Part 7: Continuing Education in Economic Evaluation	357
27. Continuing Education in Economic Evaluation	359
Index	371