

Contents

Part I Applications of Health Policy Modeling

- 1 Public Health Modeling at the Centers for Disease Control and Prevention** 3
Arielle Lasry, Michael L. Washington, Hannah K. Smalley,
Faramroze Engineer, Pinar Keskinocak, and Larry Pickering
- 2 OR in Public Health: A Little Help Can Go a Long Way** 17
Margaret L. Brandeau

Part II Health Policy and Operations

- 3 Analytical Long-Term Care Capacity Planning** 39
Yue Zhang and Martin L. Puterman
- 4 Managing Community-based Care for Chronic Diseases:
The Quantitative Approach** 71
Beste Kucukyazici and Vedat Verter
- 5 Project Management Approach to Implement
Clinical Pathways: An Example for Thyroidectomy** 91
Yasar A. Ozcan, Elena Tãnfani, and Angela Testi
- 6 EMS Planning and Management** 105
Armann Ingolfsson
- 7 Impact of Inpatient Reimbursement Systems
on Hospital Performance: The Austrian Case-Based
Payment Strategy** 129
Marion S. Rauner and Michaela M. Schaffhauser-Linzatti

Part III HIV Policy Models

8 Assessing Prevention for Positives: Cost-Utility Assessment of Behavioral Interventions for Reducing HIV Transmission 157
 Sada Soorapanth and Stephen E. Chick

9 Modeling the Impact of New HIV Prevention Technologies in Sub-Saharan Africa 179
 John Stover, Carel Pretorius, and Kyeen Andersson

10 REACH: A Practical HIV Resource Allocation Tool for Decision Makers 201
 Sabina S. Alistar, Margaret L. Brandeau, and Eduard J. Beck

11 Review of Operations Research Tools and Techniques Used for Influenza Pandemic Planning 225
 David W. Hutton

Part IV Pharmaceutical Policy

12 Active Vaccine and Drug Surveillance: Towards a 100 Million Member System 251
 Margrét V. Bjarnadóttir and David Czerwinski

13 Application of Operations Research to Funding Decisions for Treatments with Rare Disease 281
 Doug Coyle, Chaim M. Bell, Joe T.R. Clarke, Gerald Evans, Anita Gadhok, Janet Martin, Mona Sabharwal, and Eric Winquist

14 Modeling Risk Sharing Agreements and Patient Access Schemes 295
 Gregory S. Zaric, Hui Zhang, and Reza Mahjoub

Part V Building Health Policy Models

15 Considerations for Developing Applied Health Policy Models: The Example of HIV Treatment Expansion in Resource-Limited Settings 313
 April D. Kimmel and Bruce R. Schackman

16 Cost-Effectiveness Analysis Using Registry and Administrative Data 341
 Malek B. Hannouf and Gregory S. Zaric

Part VI Working with Policy Makers

**17 Evaluating Health Care Policy Decisions:
Canadian Blood Services in Atlantic Canada 365**
John Blake, Michelle Rogerson, and Dorothy Harris

**18 Improving the Efficiency of Cost-effectiveness
Analysis to Inform Policy Decisions in the Real
World: Lessons from the Pharmacoeconomics
Research Unit at Cancer Care Ontario 399**
Jeffrey S. Hoch

Index 417



<http://www.springer.com/978-1-4614-6506-5>

Operations Research and Health Care Policy

Zaric, G.S. (Ed.)

2013, XIII, 425 p., Hardcover

ISBN: 978-1-4614-6506-5