

**DISEASE CONTROL PRIORITIES
IN DEVELOPING COUNTRIES
(2nd edition)**

edited by

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In the late 1980s the World Bank initiated a process designed both to generate analytic background on priorities for control of specific diseases and to use this information as input for comparative cost-effectiveness estimates for interventions addressing the full range of conditions important in developing countries. The purpose of the comparative cost-effectiveness work was to provide one input into decision-making within the health sectors of highly resource-constrained low- and middle-income countries. This process resulted in the 1993 publication of *Disease Control Priorities in Developing Countries**. A decade after publication of the first edition, the World Bank, the World Health Organization, and the Fogarty International Center of the U.S. National Institutes of Health have initiated a “Disease Control Priorities Project” that will, among other outcomes, result in a second edition of *Disease Control Priorities in Developing Countries (DCP2)*. The Fogarty International Center is hosting the project, which is financed in part by a grant from the Bill & Melinda Gates Foundation.

DCP2 is intended both to update *DCP1* and to go beyond it in a number of important ways:

- (i) The coverage will be more comprehensive. While virtually all chapters of *DCP1* were structured around clusters of conditions, *DCP2* will, in addition, provide integrative chapters – e.g. school health systems or surgery or “Integrated Management of Childhood Illness” (IMCI) – that draw together the implementation-related responses to a number of conditions. Case studies and lessons from implementation success will be highlighted. This concern for implementation is a central additional feature of *DCP2*, although the volume will also deal with a broader range of conditions (but much more briefly) than did *DCP1*.

* The first edition was a World Bank product edited by Dean T. Jamison, W. Henry Mosley, Anthony R. Measham and Jose Luis Bobadilla and published by Oxford University Press in 1993. It totaled 746 (+ xvii) pages in 29 chapters and 4 appendices.

- (ii) There will be explicit discussion of R&D priorities as well as control priorities.
- (iii) Although *DCP1* dealt to some extent with the instruments of policy to affect behavior (or the environment), *DCP2* will attempt to do so in a more systematic way. In particular the public sector instruments for influencing behavior change that were described in *DCP1* – information, education and communication; laws and regulations; taxes and subsidies; engineering design such as speed bumps; and facility location and characteristics – will be systematically assessed in each chapter.
- (iv) Different instruments of policy (or control strategies more generally) place different levels of demand on a country's implementation and institutional capacity. Individual chapters will seek systematically to identify which interventions require relatively less implementation capacity and which require more.
- (v) Although *DCP1* briefly discussed the non-health outcomes of intervention, *DCP2* will do so in a more systematic way, including consequences of intervention (and intervention finance) for reduction of financial risk at the household level. There will, in addition, in some cases be estimates of the economic benefits of intervention (CBA) as well as the more uniformly applied CEA.
- (vi) An important element of *DCP1* was its assumption that, to inform broad policy, it was necessary to consider major changes from the status quo, not just marginal ones. A non-marginal approach to CEA needs to be informed by burden of disease assessments in a way not required for judging the attractiveness of incremental change. This is particularly true in considering R&D priorities but often applies to control priorities as well. *DCP2* will continue very much in the spirit of *DCP1* in assessing CEA of major changes, but will attempt to do so in a more standardized way.

With these objectives as background, *DCP2* will be structured into three parts:

Part I will set context, summarize results, and draw out policy implications. Part IV will also provide demographic and economic context for the volume as a whole and deal with a number of cross-cutting issues.

Part II will be organized by interventions to address major clusters of conditions and risk factors – structured closely along the lines of the World Bank/WHO burden of disease assessment. Chapters in this part will discuss the nature, consequences and experience with control measures and report CEA for interventions that are specific to the condition or risk factor in the chapter. It will place these CEAs in the context of CEAs that address multiple conditions, including the condition discussed in the chapter. (For example the circulatory system disease chapter in Part II would assess CEA of condition-specific interventions – like aspirin and beta-blockers for secondary prevention – but would only summarize results from the assessment of control of smoking, which

would be discussed in a later chapter because smoking control is also relevant for several cancers and COPD.)

Part III will deal with implementation of priorities through strengthening of health systems. It divides naturally into three parts.

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- B. Cross-Cutting Themes [12 chapters]**

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- B. Noncommunicable Disease and Injury
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chapters]**

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Editors' Preface

0. Foreword

Author: TBD

PART ONE: SUMMARY AND CROSS-CUTTING THEMES

A. Summary

1. Investing in Health

Lead author: Dean Jamison

Responsible editors: All

2. Intervention Cost-Effectiveness: Overview of Main Messages

Lead author: Ramanan Laxminarayan

Other authors: Jeffrey Chow; Pamela Maslen; Sonbol Shahid-Salles

Responsible editor: Mills

3. Strengthening Health Systems

Lead author: Anne Mills

Other authors: Fawzia Rasheed; Steve Tollman

Responsible editor: Claeson

B. Cross-Cutting Themes

4. Priorities for Global Research and Development of Interventions: Overview and Synthesis

Lead authors: Barry Bloom

Catherine Michaud

Other authors: Lone Simonsen; John La Montagne

Responsible editor: Jamison

- 5. Science and Technology for Disease Control: Past, Present, and Future**
Lead author: David Weatherall
Other authors: Heng Leng Chee; Brian Greenwood; Prawese Wasi
Responsible editor: Breman

- 6. Product Development Priorities**
Lead author: Adel Mahmoud
Other authors: Patricia Danzon; Roy Mugerwa; John Barton
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- 7. Economic Approaches to Valuing Global Health Research**
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- 8. Improving the Health of Populations: Lessons of Experience Around the World**
Lead author: Carol Medlin
Other authors: Mushtaque Chowdhury; Dean Jamison; Anthony Measham
Responsible editor: Measham

- 9. Millennium Development Goals for Health: What Will It Take to Accelerate Progress?**
Lead authors: Mariam Claeson
Adam Wagstaff
Other authors: Pablo Gottret; Qiu Fang; Robert Hecht
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- 10. Gender Differentials in Health**
Lead author: Mayra Buvinic
Other authors: Andre Medici; Elisa Fernandez; Ana Cristina Torres
Responsible editor: Measham

- 11. Fiscal Policies for Health Promotion and Disease Prevention**
Lead author: Rachel Nugent
Other author: Felicia Knaul
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- 12. Financing Health Systems in the 21st Century**
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Other authors: Cristian Baeza; Daniel Kress; Margaret Maier
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- 13. Recent Trends and Innovations in Development Assistance for Health**
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Other authors: Raj Shah
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- 14. Ethical Issues in Resource Allocation, Research, and New Product Development**
Lead authors: Dan Brock
Dan Wikler
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- 15. Economic Analysis for Priority Setting**
Lead authors: Philip Musgrove
Julia Fox-Rushby
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PART TWO: SELECTING INTERVENTIONS

A. Infectious Disease, Reproductive Health, and Undernutrition

- 16. Tuberculosis**
Lead authors: Christopher Dye
Katherine Floyd
Responsible editor: Breman
- 17. Sexually Transmitted Infections**
Lead author: Sevgi Aral
Other authors: King Holmes; Mead Over; Lisa Manhart
Responsible editor: Measham
- 18. HIV/AIDS Prevention and Treatment**
Lead author: Nancy Padian
Other authors: Helene Gayle; Stefan Bertozzi; Jeny Wegbreit;
Becca Feldman; Lisa DeMaria; Julian Gold;
Robert Grant; Michael Isbell
Responsible editor: Measham

19. Diarrheal Diseases

Lead author: Gerald Keusch
Olivier Fontaine
Other authors: Zulfiqar Bhutta; Juan Rivera; Eduardo
Gotuzzo; Alok Bhargava; Cynthia Boschi-Pinto;
Jeffrey Chow; Sonbol Shahid-Salles; Ramanan
Laxminarayan
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20. Vaccine-Preventable Diseases

Lead author: Neal Halsey
Logan Brenzel
Other authors: Lara Wolfson; Julia Fox-Rushby; Mark Miller
Responsible editor: Claeson

21. Conquering Malaria

Lead authors: Joel Breman
Anne Mills
Other authors: Robert Snow; Richard Steketee; Nicholas
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Lead author: Hans Remme
Other authors: Carlos Morel; Gabriel Schmunis; Andre Medici;
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**23. Tropical diseases lacking adequate control measures: Dengue,
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Other authors: P. Cattand; P.Desjeux; J. Jannin; M.B.Nathan;
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24. Helminthic Infections

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Lead author: Laura Caufield
Other authors: Robert Black; Stephanie Richard; Philip Musgrove; Juan Rivera
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Other authors: Sue Goldie; Gerrit Draisma; Joe Harford
Joe Lipscomb
Responsible editor: Jha

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Other authors: Ping Zhang; Giuseppina Imperatore; Desmond Williams; Alka Kanaya; Michael Engelgau; Ambady Ramachandran
Responsible editor: Jha
- 31. Mental Disorders**
Lead authors: Steven Hyman
Harvey Whiteford
Other authors: Dan Chisholm; Ronald Kessler; Vikram Patel
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- 32. Neurological Disorders**
Lead author: Vijay Chandra
Other authors: Don Silberberg; Luis Morillo; Zhen Zin Zhang; Adesola Ogunniyi; Sadanand Rajkumar; Caroline Tanner; Bala Manyam; Carol Brayne; Ramanan Laxminarayan; Susan Herman; Rajesh Pandav; Scott Kasner; Fleur Hourihan; Jeffrey Chow; William Theodore
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- 36. Diseases of the Kidney and the Urinary System**
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37. Skin Diseases

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