



Courtesy of Mark Tuschman.

# Brief Contents

## PART I Principles, Measurements, and the Health–Development Link 1

<b>Chapter 1</b>	The Principles and Goals of Global Health .....	3
<b>Chapter 2</b>	Health Determinants, Measurements, and the Status of Health Globally .....	19
<b>Chapter 3</b>	The Global Burden of Disease .....	33
<b>Chapter 4</b>	Health, Education, Equity, and the Economy .....	73

## PART II Cross-Cutting Global Health Themes 93

<b>Chapter 5</b>	Ethical and Human Rights Concerns in Global Health .....	95
<b>Chapter 6</b>	An Introduction to Health Systems .....	117
<b>Chapter 7</b>	Culture and Health .....	165

## PART III The Burden of Disease 187

<b>Chapter 8</b>	The Environment and Health ...	189
<b>Chapter 9</b>	Nutrition and Global Health ...	219

## Chapter 10 Women's Health ..... 261

## Chapter 11 The Health of Young Children .. 293

## Chapter 12 The Health of Adolescents and Young Adults ..... 331

## Chapter 13 Communicable Diseases..... 351

## Chapter 14 Noncommunicable Diseases and Mental Disorders..... 407

## Chapter 15 Injuries ..... 451

## PART IV Working Together to Improve Global Health 471

## Chapter 16 Natural Disasters and Complex Humanitarian Emergencies... 473

## Chapter 17 Working Together to Improve Global Health..... 497

## Chapter 18 Science, Technology, and Global Health..... 527

## Chapter 19 Intersectoral Approaches to Enabling Better Health ..... 547

## Glossary .....

## Index..... 567



Courtesy of Mark Tuschman.

# Contents

<b>The Essential Public Health Series .....</b>	<b>x</b>
<b>Foreword .....</b>	<b>xiii</b>
<b>Editor's Preface .....</b>	<b>xv</b>
<b>Author's Preface .....</b>	<b>xvii</b>
<b>About the Text .....</b>	<b>xix</b>
<b>Acknowledgments .....</b>	<b>xxxi</b>
<b>About the Author .....</b>	<b>xxxiii</b>
<b>Abbreviations .....</b>	<b>xxxv</b>

## PART I Principles, Measurements, and the Health–Development Link 1

<b>Chapter 1 The Principles and Goals of Global Health.....</b>	<b>3</b>
Vignettes .....	3
Why Study Global Health? .....	4
Health, Public Health, and Global Health .....	7
One Health and Planetary Health .....	9
Critical Global Health Concepts .....	9
The Organization of Data in This Text.....	10
The Sustainable Development Goals .....	12
Case Study: Smallpox Eradication— The Most Famous Success Story .....	13
Central Messages of This Text .....	15

## Chapter 2 Health Determinants, Measurements, and the Status of Health Globally ..... 19

Vignettes .....	19
The Importance of Measuring Health Status .....	20
The Determinants and Social Determinants of Health .....	20
Key Health Indicators .....	23
Vital Registration.....	30
Main Messages .....	31

## Chapter 3 The Global Burden of Disease ..... 33

Vignettes .....	33
Measuring the Burden of Disease .....	34
Burden of Disease Data .....	38
The Burden of Deaths and Disease Within Countries .....	55
Risk Factors .....	55
Demography and Health .....	56
Progress in Health Status.....	65
The Burden of Disease: Looking Forward.....	66
The Development Challenge of Improving Health.....	66
Case Study .....	68
Main Messages .....	69

<b>Chapter 4 Health, Education, Equity, and the Economy.....</b>	<b>73</b>
Vignettes .....	73
Introduction .....	74
Health, Education, Productivity, and Poverty .....	74
Health Disparities .....	76
Health Expenditure and Health Outcomes .....	81
Public and Private Expenditure on Health .....	82
The Cost-Effectiveness of Health Interventions .....	83
Cost-Benefit Analysis .....	85
Health and Development .....	85
Case Studies .....	86
Main Messages .....	89
<b>PART II Cross-Cutting Global Health Themes</b>	
<b>93</b>	
<b>Chapter 5 Ethical and Human Rights Concerns in Global Health .....</b>	<b>95</b>
Vignettes .....	95
The Importance of Ethical and Human Rights Issues in Global Health.....	96
The Foundations for Health and Human Rights.....	96
Selected Human Rights Issues .....	98
Research with Human Subjects .....	100
Research Ethics Guidelines.....	102
Evaluating the Ethics of Human Subjects Research .....	103
Ethical Issues in Making Investment Choices in Health .....	107
Case Studies.....	110
Challenges for the Future .....	112
<b>Chapter 6 An Introduction to Health Systems.....</b>	<b>117</b>
Vignettes .....	117
Introduction.....	118
What Is a Health System? .....	118
The Functions of a Health System.....	120
How Are Health Services Organized?.....	123
The Roles of the Public, Private, and NGO Sectors .....	127

Health Sector Expenditure .....	129
The Quest for Universal Health Coverage.....	131
Selected Examples of Health Systems.....	133
Key Health Sector Issues .....	137
Addressing Key Health Sector Concerns.....	141
Case Studies.....	145
Main Messages .....	157

<b>Chapter 7 Culture and Health .....</b>	<b>165</b>
Vignettes .....	165
The Importance of Culture to Health .....	166
The Concept of Culture .....	167
Other Key Concepts and Definitions .....	168
Health Beliefs and Practices.....	169
Health Behaviors and Behavior Change .....	172
Understanding and Engendering Behavior Change .....	174
Social Assessment .....	177
Case Studies.....	179
Main Messages .....	184

## **PART III The Burden of Disease**

<b>187</b>	
<b>Chapter 8 The Environment and Health ...</b>	<b>189</b>
Vignettes .....	189
The Importance of Environmental Health .....	190
Key Concepts.....	190
Key Environmental Health Burdens .....	193
The Burden of Environmentally Related Diseases.....	196
The Costs and Consequences of Key Environmental Health Problems .....	200
Reducing the Burden of Disease .....	200
Case Studies.....	208
Future Challenges .....	214
Main Messages .....	216

<b>Chapter 9 Nutrition and Global Health ....</b>	<b>219</b>
Vignettes .....	219
The Importance of Nutrition .....	220
Definitions and Key Terms .....	221
Data on Nutrition.....	222

The Determinants of Nutritional Status.....	223
Gauging Nutritional Status.....	226
Key Nutritional Needs.....	228
Overweight and Obesity.....	230
Nutritional Needs Throughout the Life Course .....	231
The Nutritional State of the World.....	232
Nutrition, Health, and Economic Development .....	238
Case Studies .....	240
Addressing Future Nutrition Challenges.....	244
Main Messages .....	251

## **Chapter 10 Women's Health ..... 261**

Vignettes.....	261
The Importance of Women's Health.....	262
Key Definitions .....	264
The Determinants of Women's Health.....	264
The Burden of Health Conditions for Females ....	266
Leading Causes of Death and DALYs, Males and Females Compared .....	269
Selected Health Burdens for Females.....	273
The Costs and Consequences of Women's Health Problems.....	279
Case Studies.....	279
Addressing Future Challenges .....	281
Further Measures to Enhance the Health of Women.....	283
Main Messages .....	286

## **Chapter 11 The Health of Young Children .. 293**

Vignettes .....	293
The Importance of Child Health.....	294
Key Terms .....	296
Note on Data .....	296
Mortality and the Burden of Disease .....	296
Risk Factors for Neonatal, Infant, and Young Child Deaths .....	307
The Costs and Consequences of Child Morbidity and Mortality .....	308
Immunization: A Best Buy in Global Health.....	309
Case Studies.....	314
Addressing Key Challenges in Child Health.....	318
Main Messages .....	324

## **Chapter 12 The Health of Adolescents and Young Adults ..... 331**

Vignettes .....	331
Key Terms and Definitions .....	332
The Importance of the Health of Adolescents and Young Adults .....	332
Data on the Health of Adolescents and Young Adults .....	333
Adolescence and Young Adulthood as Transitional and Critical Periods.....	333
Key Health Burdens of Adolescents and Young Adults.....	333
Economic and Social Consequences of Health Issues Among Adolescents and Young Adults ..	343
Case Study .....	344
Improving the Health of Adolescents and Young Adults in Low- and Middle-Income Countries..	344
Main Messages .....	348

## **Chapter 13 Communicable Diseases..... 351**

Vignettes .....	351
The Importance of Communicable Diseases .....	352
Key Terms, Definitions, and Concepts .....	353
Note on the Use of Data in This Chapter.....	354
The Burden of Communicable Diseases.....	354
The Costs and Consequences of Communicable Diseases.....	357
The Leading Burdens of Communicable Diseases.....	357
Case Studies.....	391
Additional Comments on Future Challenges to the Control of Communicable Diseases ..	397
Main Messages .....	399

## **Chapter 14 Noncommunicable Diseases and Mental Disorders..... 407**

Vignettes .....	407
Key Definitions .....	408
The Importance of Noncommunicable Diseases...	408
A Note on Data .....	409
The Burden of Noncommunicable Diseases.....	409
The Costs and Consequences of Noncommunicable Diseases, Mental Health Disorders, Tobacco Use, and Alcohol Use.....	424

Addressing the Burden of Noncommunicable Diseases .....	426	The Health Burden of Natural Disasters.....	479																																		
Additional Comments on Addressing Key Risk Factors for CVD, COPD, and Diabetes .....	427	The Health Effects of Complex Humanitarian Emergencies .....	480																																		
Additional Comments on Addressing Diabetes, Cancer, Mental Health, and Vision and Hearing Loss .....	434	Addressing the Health Effects of Natural Disasters.....	482																																		
Case Studies.....	440	Addressing the Health Effects of Complex Humanitarian Emergencies .....	483																																		
Future Challenges of Preventing and Addressing NCDs and Mental Disorders.....	445	Coordination of International Emergency Responses.....	485																																		
Main Messages .....	445	Case Studies.....	486																																		
<b>Chapter 15 Injuries .....</b>	<b>451</b>	Future Challenges in Meeting the Health Needs of Complex Humanitarian Emergencies and Natural Disasters.....	491																																		
Vignettes .....	451	Main Messages .....	491																																		
The Importance of Injuries.....	452	<b>Chapter 17 Working Together to Improve Global Health.....</b>	<b>497</b>																																		
Key Definitions .....	452	The Burden of Injuries .....	453	Vignettes .....	497	Injury in Children, Adolescents, and Young Adults .....	460	Introduction.....	498	Risk Factors for Injuries.....	460	Cooperating to Improve Global Health.....	498	The Costs and Consequences of Injuries .....	462	Key Actors in Global Health.....	499	Addressing Key Injury Issues .....	462	Trends in Global Health Efforts .....	514	Emergency Medical Services.....	466	Setting the Global Health Agenda .....	516	Case Study .....	466	Case Studies.....	517	Future Challenges .....	467	Future Challenges to Cooperation in Global Health.....	520	Main Messages .....	468	Main Messages .....	521
The Burden of Injuries .....	453	Vignettes .....	497																																		
Injury in Children, Adolescents, and Young Adults .....	460	Introduction.....	498																																		
Risk Factors for Injuries.....	460	Cooperating to Improve Global Health.....	498																																		
The Costs and Consequences of Injuries .....	462	Key Actors in Global Health.....	499																																		
Addressing Key Injury Issues .....	462	Trends in Global Health Efforts .....	514																																		
Emergency Medical Services.....	466	Setting the Global Health Agenda .....	516																																		
Case Study .....	466	Case Studies.....	517																																		
Future Challenges .....	467	Future Challenges to Cooperation in Global Health.....	520																																		
Main Messages .....	468	Main Messages .....	521																																		

## PART IV Working Together to Improve Global Health **471**

<b>Chapter 16 Natural Disasters and Complex Humanitarian Emergencies....</b>	<b>473</b>
Vignettes .....	473
The Importance of Natural Disasters and Complex Emergencies to Global Health.....	474
Key Terms .....	474
The Characteristics of Natural Disasters.....	478
The Characteristics of Complex Emergencies.....	478

The Health Burden of Natural Disasters.....	479
The Health Effects of Complex Humanitarian Emergencies .....	480
Addressing the Health Effects of Natural Disasters.....	482
Addressing the Health Effects of Complex Humanitarian Emergencies .....	483
Coordination of International Emergency Responses.....	485
Case Studies.....	486
Future Challenges in Meeting the Health Needs of Complex Humanitarian Emergencies and Natural Disasters.....	491
Main Messages .....	491
<b>Chapter 17 Working Together to Improve Global Health.....</b>	<b>497</b>
Vignettes .....	497
Introduction.....	498
Cooperating to Improve Global Health.....	498
Key Actors in Global Health.....	499
Trends in Global Health Efforts .....	514
Setting the Global Health Agenda .....	516
Case Studies.....	517
Future Challenges to Cooperation in Global Health.....	520
Main Messages .....	521
<b>Chapter 18 Science, Technology, and Global Health.....</b>	<b>527</b>
Vignettes .....	527
Introduction.....	528
The Need for New Products.....	528
The Potential of Science and Technology.....	530
Constraints to Applying Science and Technology to Global Health Problems .....	532
Enhancing New Product Development .....	534
Case Studies .....	536
Main Messages .....	543

## **Chapter 18 Science, Technology, and Global Health.....** **527**

Vignettes .....	527
Introduction.....	528
The Need for New Products.....	528
The Potential of Science and Technology.....	530
Constraints to Applying Science and Technology to Global Health Problems .....	532
Enhancing New Product Development .....	534
Case Studies .....	536
Main Messages .....	543

<b>Chapter 19 Intersectoral Approaches to Enabling Better Health .....</b>	<b>547</b>
Vignettes .....	547
Reviewing the Determinants of Health.....	548
The Role of Intersectoral Approaches in Addressing the Determinants of Health and Health Risk Factors .....	551
Policy and Program Approaches to Addressing Intersectoral Issues .....	553
Main Messages .....	555
<b>Glossary .....</b>	<b>559</b>
<b>Index.....</b>	<b>567</b>

**BONUS CHAPTERS IN THE COMPANION EBOOK****Chapter 20 Working in Global Health****Chapter 21 Profiles of Global Health Actors**

To access the eBook, simply redeem the access code found at the front of this book at [www.jblearning.com](http://www.jblearning.com)