



Brief Contents

Preface	xi
New to This Edition	xiii
About the Author	xv

CHAPTER 1	Global Health Transitions	1
CHAPTER 2	Global Health Priorities	21
CHAPTER 3	Socioeconomic Determinants of Health	55
CHAPTER 4	Environmental Determinants of Health	75
CHAPTER 5	Health and Human Rights	107
CHAPTER 6	Global Health Financing	133
CHAPTER 7	Global Health Implementation	155
CHAPTER 8	HIV/AIDS and Tuberculosis	177
CHAPTER 9	Diarrheal, Respiratory, and Other Infections	213
CHAPTER 10	Malaria and Neglected Tropical Diseases	253
CHAPTER 11	Reproductive Health	297
CHAPTER 12	Nutrition	331
CHAPTER 13	Cardiovascular Diseases	361
CHAPTER 14	Cancer	391

CHAPTER 15	Diabetes, Chronic Respiratory Diseases, and Other Noncommunicable Diseases ...	419
CHAPTER 16	Mental Health Promotion.....	457
CHAPTER 17	Injury Prevention	481
CHAPTER 18	Promoting Neonatal, Infant, Child, and Adolescent Health	507
CHAPTER 19	Promoting Healthy Adulthood and Aging	529
CHAPTER 20	Interprofessionalism in Global Health	547
	Glossary	555
	Index	591



Contents

Preface	xi
New to This Edition	xiii
About the Author	xv

CHAPTER 1 Global Health Transitions

1.1 Defining Global Health	1
1.2 Population Health	3
1.3 Prevention and Intervention Science	4
1.4 Risk Factors	8
1.5 Health Transitions	12
1.6 Global Health History and Functions	15
1.7 Global Health Achievements.....	17
References	18

CHAPTER 2 Global Health Priorities

2.1 Globalization and Health	21
2.2 Global Health Security.....	22
2.3 Prioritization Strategies	24
2.4 Millennium Development Goals ..	28
2.5 Sustainable Development Goals..	30
2.6 Vital Statistics.....	34
2.7 Mortality	36
2.8 Morbidity.....	40
2.9 Burden of Disease Metrics	41
2.10 Sources of Health Information ...	44
2.11 Country Income Level and Health	46
2.12 Featured Countries	50
References	52

CHAPTER 3 Socioeconomic Determinants of Health.....

3.1 Health Equity and the Sustainable Development Goals.....	55
3.2 Economics	56
3.3 Education	59
3.4 Gender	61
3.5 Employment.....	63
3.6 Culture, Discrimination, and Health	65
3.7 Migrant and Refugee Health.....	67
3.8 Governance and Politics	70
References	72

CHAPTER 4 Environmental Determinants of Health.....

4.1 Environmental Health and the Sustainable Development Goals... ..	75
4.2 Water, Sanitation, and Hygiene ...	79
4.3 Energy and Air Quality.....	84
4.4 Occupational and Industrial Health	88
4.5 Urbanization.....	92
4.6 Sustainability	96
4.7 Ecosystem Health	99
4.8 Climate Change and Health	100
References	103

CHAPTER 5 Health and Human Rights

5.1 Health and Human Rights.....	107
5.2 Access to Health Services.....	110

5.3 Access to Essential Medicines . . 111
5.4 People with Disabilities 114
5.5 Health in Prisons 117
5.6 Health Workforce 119
5.7 Access to Basic Human Needs . . 121
5.8 Emergency Management 123
5.9 International Health Regulations . . 126
References 129

CHAPTER 6 Global Health Financing 133

6.1 Medicine and Public Health 133
6.2 Global Health Financing 135
6.3 Health Systems 137
6.4 Paying for Personal Health 141
6.5 Health Insurance 143
6.6 Paying for Global Health Interventions 145
6.7 Official Development Assistance . . 146
6.8 Foundations and Corporate Donations 149
6.9 Personal Donations 150
References 152

CHAPTER 7 Global Health Implementation 155

7.1 Global Health Channels and Implementers 155
7.2 Global Health Interventions 157
7.3 International Cooperation 159
7.4 The United Nations 160
7.5 Development Banks 163
7.6 Global Partnerships 165
7.7 Local and National Governments . . 166
7.8 The Nonprofit Sector 168
7.9 The Corporate Sector 170
7.10 Research and the Academic Sector 171

7.11 Measuring Impact 171
References 174

CHAPTER 8 HIV/AIDS and Tuberculosis 177

8.1 HIV/AIDS, Tuberculosis, and Global Health 177
8.2 Viruses, Bacteria, and Fungi 179
8.3 HIV and AIDS 181
8.4 HIV/AIDS Epidemiology 184
8.5 HIV Interventions 189
8.6 Sexually Transmitted Infections . . 195
8.7 Tuberculosis 197
8.8 TB Epidemiology 199
8.9 TB Interventions 202
8.10 Antimicrobial Resistance 205
References 207

CHAPTER 9 Diarrheal, Respiratory, and Other Infections 213

9.1 Infectious Diseases and Global Health 213
9.2 Diarrheal Diseases 217
9.3 Diarrhea Interventions 221
9.4 Acute Respiratory Infections 224
9.5 Pneumonia Interventions 228
9.6 Influenza 230
9.7 Coronaviruses 234
9.8 Immunization 235
9.9 Vaccine-Preventable Infections . . 238
9.10 Viral Hepatitis 242
9.11 Meningitis 245
References 245

CHAPTER 10 Malaria and Neglected Tropical Diseases . . 253

10.1 Malaria, NTDs, and Global Health 253

10.2 Protozoa and Helminths	255	11.9 Infertility	322
10.3 Malaria	257	11.10 Gynecological Health	323
10.4 Malaria Epidemiology	259	11.11 Men's Reproductive Health	324
10.5 Malaria Interventions	260	11.12 Sexual Minority Health	324
10.6 Dengue	265	References	325
10.7 Other Arboviruses	266	CHAPTER 12 Nutrition 331	
10.8 Lymphatic Filariasis	269	12.1 Nutrition and Global Health	331
10.9 Onchocerciasis	270	12.2 Macronutrients	332
10.10 Schistosomiasis	272	12.3 Breastfeeding and Infant Nutrition	335
10.11 Soil-Transmitted Helminths	273	12.4 Child Growth	337
10.12 Chagas Disease and Trypanosomiasis	274	12.5 Severe Acute Malnutrition	341
10.13 Leishmaniasis	276	12.6 Food Security and Food Systems	343
10.14 Leprosy, Buruli Ulcer, and Trachoma	276	12.7 Micronutrients	345
10.15 Skin NTDs	278	12.8 Iron Deficiency Anemia	346
10.16 Foodborne NTDs	279	12.9 Iodine Deficiency Disorders	348
10.17 Rabies and Snakebite Envenoming	282	12.10 Other Mineral Deficiencies	348
10.18 Eradication	283	12.11 Vitamin A Deficiency	349
10.19 Guinea Worm Disease	285	12.12 Other Vitamin Deficiencies	350
10.20 Polio	287	12.13 Overweight and Obesity	350
10.21 Emerging Infectious Diseases	288	12.14 Obesity Interventions	353
References	291	12.15 Food Safety	355
CHAPTER 11 Reproductive Health 297		References	357
11.1 Reproductive Health and Global Health	297	CHAPTER 13 Cardiovascular Diseases 361	
11.2 The Fertility Transition	299	13.1 Cardiovascular Disease and Global Health	361
11.3 Population Planning	302	13.2 The Epidemiologic Transition	363
11.4 Family Planning	306	13.3 CVD Epidemiology	365
11.5 Contraception	308	13.4 CVD Prevention	367
11.6 Healthy Pregnancy	311	13.5 Health Behavior Change	371
11.7 Maternal Mortality	313	13.6 Physical Inactivity and Sedentariness	373
11.8 Stillbirths and Neonatal Mortality	317	13.7 Ischemic Heart Disease	375
		13.8 Stroke	379

13.9 Hypertension 381
13.10 Other Cardiovascular
Diseases 384
References 387

CHAPTER 14 Cancer 391

14.1 Cancer and Global Health 391
14.2 Cancer Biology 392
14.3 Cancer Epidemiology 394
14.4 Cancer Prevention 398
14.5 Cancer Screening 401
14.6 Cancer Treatment 402
14.7 Lung Cancer 406
14.8 Breast Cancer 407
14.9 Cervical Cancer 409
14.10 Prostate Cancer 410
14.11 Liver Cancer 412
14.12 Esophageal, Stomach, and
Colorectal Cancers 413
14.13 Other Cancers 414
References 416

**CHAPTER 15 Diabetes,
Chronic Respiratory Diseases,
and Other Noncommunicable
Diseases 419**

15.1 Noncommunicable Diseases and
Global Health 419
15.2 Diabetes 425
15.3 Chronic Respiratory Diseases 429
15.4 Tobacco Control 433
15.5 Chronic Kidney Disease 436
15.6 Liver Diseases 437
15.7 Digestive Diseases 440
15.8 Neurological Disorders 442
15.9 Genetic Blood Disorders 443
15.10 Musculoskeletal Disorders 445
15.11 Vision Impairment 446

15.12 Hearing Loss 449
15.13 Skin Diseases 451
15.14 Dental and Oral Health 451
References 452

**CHAPTER 16 Mental Health
Promotion 457**

16.1 Mental Health and
Global Health 457
16.2 Depressive Disorders 459
16.3 Anxiety Disorders 460
16.4 Schizophrenia 461
16.5 Bipolar Disorder 463
16.6 Drug Use Disorders 463
16.7 Alcohol Use Disorders 464
16.8 Other Mental Health Disorders 468
16.9 Suicide 469
16.10 Autism and Neurodevelopmental
Disorders 471
16.11 Dementia and Neurocognitive
Disorders 472
16.12 Mental Health Care 473
References 475

CHAPTER 17 Injury Prevention . . 481

17.1 Injuries and Global Health 481
17.2 Transport Injuries 484
17.3 Falls 488
17.4 Drowning 490
17.5 Burns 492
17.6 Other Unintentional Injuries 492
17.7 Intentional Injuries 494
17.8 Interpersonal Violence 494
17.9 Gender-Based Violence 497
17.10 Conflict and War 498
17.11 Bioterrorism 501
References 503

CHAPTER 18 Promoting Neonatal, Infant, Child, and Adolescent Health507

18.1 Global Child Health 507
 18.2 Improving Neonatal Survival... 510
 18.3 Supporting Infant Health and Development.....514
 18.4 Health Interventions in Early Childhood516
 18.5 Children with Special Needs... 520
 18.6 Promoting Health in Middle Childhood521
 18.7 Promoting Adolescent Health.. 522
 References 525

CHAPTER 19 Promoting Healthy Adulthood and Aging529

19.1 Healthy Adulthood 529
 19.2 Promoting Health in Early Adulthood531
 19.3 Promoting Health in Middle Adulthood534
 19.4 The Aging Transition537
 19.5 Aging and Global Health539

19.6 Supporting Health in Older Adulthood543
 References544

CHAPTER 20 Interprofessionalism in Global Health.....547

20.1 Core Knowledge in Global Health547
 20.2 Multidisciplinary Learning in Global Health547
 20.3 Interprofessional Skills for Global Health Practice.....550
 20.4 Intercultural Communication and Global Health Practice551
 20.5 Experiential Learning in Global Health551
 20.6 Professional Development in Global Health552
 20.7 Global Health Matters 553
 References 554

Glossary.....555

Index 591