

CONTENTS

	<i>Page</i>
<i>Preface</i>	xxv
<i>Note to Our Readers</i>	xxvii
<i>Contributors</i>	xxviii
AN OVERVIEW OF REGIONAL HEALTH	1
HEALTH IN THE CONTEXT OF DEVELOPMENT	1
TACKLING THE UNFINISHED AGENDA	12
PROTECTING HEALTH GAINS	16
CONFRONTING EMERGING CHALLENGES	18
RESPONDING TO THE POPULATION'S HEALTH NEEDS	23
1. HEALTH IN THE CONTEXT OF DEVELOPMENT	28
THE ECONOMIC AND POLITICAL CONTEXT	30
Life Expectancy	30
Economic Growth and Inequality	30
Trends in Social Spending	32
Subregional and Regional Integration	35
Charting New Paths through Summits—Regional Political Cooperation	35
THE SOCIAL CONTEXT	38
Poverty and Indigence	39
Hunger and Undernutrition	41
Unemployment	42
Access to Education	44
Inequities in Health Conditions	45
Gender, Ethnic, and Racial Inequities	47
<i>Causes of Inequity in Access to Essential Health Care Resources</i>	48
<i>Health and Equity in Gender, Ethnicity, and Race</i>	50
<i>Gender and Access to Health Care</i>	51
<i>Gender Equity and Health Care Financing</i>	51
THE ENVIRONMENTAL CONTEXT	52
Urban Growth	52
Access to Potable Water, Water Pollution, and Waste Disposal	52
Air Pollution	52
Shrinking Forests and Land Degradation	53
Coastal Degradation and Ocean Pollution	53
Regional Variability and Climate Change	54
INTERNATIONAL HUMAN RIGHTS LAW	54
Legal Sources for the Right to Health in Latin America and the Caribbean	54
Initiatives in Bioethics	55

2. HEALTH CONDITIONS AND TRENDS	58
POPULATION CHARACTERISTICS AND TRENDS	63
Consequences of the Demographic Transition	63
Differences and Inequities in Fertility and Mortality	66
International and Internal Migration	67
Conclusions	68
MORTALITY: EXTENT, DISTRIBUTION, AND TRENDS	69
Overview	69
Analysis by Subregion	72
North America	72
Mexico	74
Central America	74
Latin Caribbean	77
Non-Latin Caribbean	77
Andean Area	80
Brazil	80
Southern Cone	83
MORBIDITY	83
Vaccine-preventable Diseases	83
Holding on to Achievements	85
The Unfinished Immunization Agenda	91
New Challenges in Immunization	94
Vector-borne Diseases	98
Malaria	98
Dengue	101
Chagas' Disease	108
Zoonoses	110
Rabies	110
Plague	111
Visceral Leishmaniasis	111
Echinococcosis/Hydatidosis	112
Brucellosis	112
Bovine tuberculosis	112
HIV/AIDS and Other Sexually Transmitted Infections	113
Epidemiologic Overview for HIV/AIDS and STIs	113
Socioeconomic Determinants and Compounding Factors in HIV Transmission	115
The Health Sector's Response: Key Achievements	116
Completing the Unfinished Agenda: 2006 and Beyond	117
Chronic Communicable Diseases	118
Tuberculosis	118
Leprosy	122
Chronic Noncommunicable Diseases	124
Cardiovascular Diseases	125
Malignant Neoplasms	126
Diabetes	128
Chronic Respiratory Diseases	129
Hypertensive Diseases	129

<i>Risk Factors for Chronic Noncommunicable Diseases</i>	131
<i>The Health System's Response</i>	133
PROMOTING HEALTH	134
Mental Health	134
<i>The Burden and Magnitude of Mental Health Disorders</i>	134
<i>Disasters and Mental Health</i>	134
<i>The Response</i>	135
<i>Prospects for Change</i>	135
Oral Health	135
<i>Dental Caries</i>	135
<i>Fluoridation in the Americas</i>	136
<i>Dental Fluorosis</i>	138
<i>Practice of Atraumatic Restoration</i>	138
<i>Periodontal Disease and Its Association with Systemic Disease</i>	140
Ocular Health	141
<i>Blindness and Loss of Vision</i>	141
<i>Cost of Blindness</i>	142
<i>Successes in Disease Control</i>	142
<i>Partnerships</i>	142
<i>The Future</i>	142
Sexual and Reproductive Health	142
<i>Status of Sexual and Reproductive Health in the Region's Countries</i>	143
<i>Women's Health and Maternal Health</i>	143
<i>Perinatal Health</i>	145
<i>Sexual and Reproductive Health of Adolescents</i>	145
PREVENTING RISKS	145
Food and Nutrition for a Healthier Life	145
<i>Growth Patterns of Infants and Young Children</i>	146
<i>Breast-feeding</i>	148
<i>HIV and Infant Feeding</i>	148
<i>Micronutrients</i>	148
<i>Tackling the Epidemic of Nutrition-related Chronic Diseases in the Americas</i>	149
Coping with Disasters	150
<i>At-risk Populations: Damages and Death Rates</i>	150
<i>Impact of Natural Disasters</i>	151
<i>Impact of Manmade Disasters</i>	152
<i>Impact of Disasters on the Health Care System</i>	153
<i>Overall Risk Patterns</i>	154
<i>Conclusions</i>	154
HEALTH OF SPECIAL GROUPS	155
Indigenous Peoples	155
Afro-descendant Populations	159
Family and Community Health	162
Children	163
<i>Infant Mortality and Mortality in Children under 5 Years Old</i>	163
<i>Poverty and Inequity</i>	164

<i>Integrated Management of Childhood Illnesses</i>	164
<i>Child Development within the Framework of the Millennium Development Goals (MDGs)</i> ..	165
Health and Development of Adolescents and Youths	165
<i>Demographic Factors</i>	165
<i>Education</i>	166
<i>Employment</i>	166
<i>Family Structure and Dynamics</i>	166
<i>Mortality and Morbidity</i>	167
<i>Sexual and Reproductive Health</i>	167
<i>Violence</i>	170
<i>Substance Abuse</i>	170
Older Adults	171
<i>A Decrease in Premature Deaths before Age 85</i>	171
<i>Increasing Health and Functionality in Years Gained</i>	172
<i>Regional Strategy for the Implementation of the Madrid International Action Plan</i>	173
<i>Regional Commitment to Promote Health and Welfare among the Elderly</i>	173
<i>Technical Cooperation Strategies</i>	174
Persons with Disabilities	174
NEW PUBLIC HEALTH CHALLENGES	176
Neglected Diseases in Latin America and the Caribbean	176
<i>The Problem</i>	176
<i>Neglected Diseases in Neglected Populations</i>	177
<i>Disease Burden</i>	177
<i>Leishmaniasis</i>	178
<i>Lymphatic Filariasis</i>	179
<i>Onchocerciasis</i>	180
Emerging and Reemerging Infectious Diseases	182
<i>Influenza Pandemic Preparedness in the Americas</i>	183
<i>Severe Acute Respiratory Syndrome</i>	185
<i>Hantavirus Pulmonary Syndrome</i>	188
<i>Cholera</i>	188
3. SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL HEALTH ..	208
HEALTH AND THE ENVIRONMENT	210
WATER, SANITATION, AND SOLID WASTE DISPOSAL	213
Monitoring MDG Targets	213
Water, Basic Sanitation, and Public Health	215
The Economic Benefits of Water and Sanitation Services Access	216
Equity in Sustainable Access to Water and Basic Sanitation Services	220
Quality and Sustainability of Basic Water and Sanitation Services in the Region ...	223
<i>Protection of Water Resources</i>	228
<i>Protection of Recreational Waters</i>	228
<i>Solid Waste</i>	228
Basic Water and Sanitation in Critical and Emergency Situations in Latin America and the Caribbean	229

AIR POLLUTION	230
Air Quality in the Americas	230
The Effects of Air Pollution on Human Health	234
CHEMICAL CONTAMINANTS	235
Interventions	236
Chemical Safety in Latin America and the Caribbean	238
FOOD SAFETY	239
WORKERS' HEALTH	240
Workplace Hazards and the Occupational Morbidity and Mortality Burden	241
<i>Occupational Accidents</i>	241
<i>Occupational Diseases</i>	241
<i>Occupational Mortality</i>	244
International Policies and Partnerships	244
CHILDREN'S ENVIRONMENTAL HEALTH	245
Political Commitments	246
<i>United Nations Conference on Environment and Development (Earth Summit)</i>	246
<i>United Nations Millennium Declaration</i>	246
<i>Johannesburg Declaration on Sustainable Development</i>	246
<i>Declaration of Mar del Plata</i>	247
Progress in Children's Environmental Health	247
FOOD AND NUTRITIONAL SECURITY	248
Undernourishment	248
Nutritional Anthropometry	250
The Evolution of Overweight and Obesity in Latin America and the Caribbean	250
Towards a Regional Initiative	252
DISEASES AFFECTING FOOD SAFETY	252
Foot-and-Mouth Disease	253
Bovine Spongiform Encephalopathy	254
Avian Influenza	254
<i>Global Situation</i>	254
<i>The Importance of Poultry Production to Food Safety</i>	255
<i>The Regional Avian Influenza Situation</i>	255
<i>Risk of the Introduction and Spread of H5N1 Influenza in the Region</i>	255
<i>The Political and Technical Response</i>	256
TOBACCO	256
Tobacco-related Morbidity and Mortality	256
Tobacco Use and Exposure to Secondhand Smoke	257
<i>Prevalence of Tobacco Consumption among Adults</i>	257
<i>Prevalence of Smoking among Adolescents</i>	258
<i>Per Capita Tobacco Consumption</i>	259

<i>Exposure to Secondhand Smoke</i>	259
Economic Considerations	260
Status of Interventions	260
<i>WHO Framework Convention on Tobacco Control</i>	260
<i>Smoke-free Environments</i>	261
<i>Taxes on Tobacco Products and Price-setting</i>	261
<i>Health Risk Warnings on Tobacco Products</i>	262
<i>Elimination of Tobacco Advertising and Promotion</i>	262
Tobacco Industry Activities	262
Tobacco in the Courtroom	262
Challenges and Priorities for the Future	262
 ALCOHOL	 263
Alcohol Consumption, Health, and Social Problems	264
The Cultural Significance of Alcohol and Its Consumption in Indigenous Communities	266
The Path Forward	267
 VIOLENCE	 268
Intentional and Unintentional Injuries	268
Homicides	269
Youth Violence	270
Internal Population Displacement due to Violence	270
Information Systems on Violence and Injuries	270
Information Systems of Injuries from External Causes: Successful Initiatives	271
<i>Surveillance Systems in Hospital Emergency Departments in Colombia, El Salvador, and Nicaragua</i>	271
<i>Observatories on Mortality Caused by External Injuries</i>	271
 ROAD SAFETY	 271
Who Has Accidents?	272
Strategies for Improving Road Safety	274
Intervention and Prevention	274
 HEALTH PROMOTION	 274
 HEALTHY SPACES	 279
Examples in the Americas of Healthy Municipalities and Communities	280
Healthy Housing Initiatives	283
 HEALTH-PROMOTING SCHOOLS	 283
Progress of the Initiative	285
 4. PUBLIC POLICIES AND HEALTH SYSTEMS AND SERVICES	 298
ORGANIZATION, COVERAGE, AND PERFORMANCE OF NATIONAL HEALTH AND SOCIAL WELFARE SYSTEMS	301
Values, Principles, and Purposes of Health Systems	301
Background	301

Summary of Sector Reform in the Region in the 1980s and 1990s	302
Organization, Coverage, and Performance of Health Systems	303
Social Exclusion and Barriers to Access to the Health System	304
Changes in the Agenda for Social Welfare and Strengthening of Health Systems, 2001–2005	304
NATIONAL HEALTH EXPENDITURE AND FINANCING OF NATIONAL HEALTH CARE SYSTEMS AND SERVICES	313
National Health Expenditure in the Americas and Other Regions, 2004: Public Spending Rises with Countries' Level of Economic Development	313
National Health Expenditure and the Public/Private Mix of National Health Care Systems in the Americas 2004–2005: Cross-Country Comparisons ..	315
Changes in the Composition of National Health Expenditure: Trends in Total Expenditure and the Growing Role of Private Insurance and Pre-paid Health Plans	315
Public Health Care Systems: Expenditure and Coverage of Government and Social Health Insurance Plans	318
Private Expenditure on Health by Households	320
Description of Household Expenditure on Health	321
Distributive Impact of Government Health Expenditure	323
HEALTH LEGISLATION	325
Legal Framework for Health System Stewardship and Regulatory Functions	325
Regulation of Financing, Insurance, and Private Sector Involvement in Health Care	326
Regulation of the Quality of Care	328
Channels for Participation by Civil Society	328
Enhancing Health Rights	328
HUMAN RESOURCES	329
The Importance of Health Human Resources and Their Development	329
Long-Range Policies and Plans to Better Adapt the Workforce to Health Requirements and Develop the Institutional Capacity to Put Them into Practice	330
<i>Human Resource Planning Processes and Their Characteristics</i>	<i>330</i>
<i>Institutionalization of National Management of Human Resource Development</i>	<i>330</i>
<i>Regulation of Professional Practice by Health Human Resources</i>	<i>330</i>
Placing the Right People in the Right Places to Achieve an Equitable Distribution of Health Personnel	331
<i>Availability of Health Personnel</i>	<i>331</i>
<i>Health Personnel Composition</i>	<i>332</i>
<i>Public Budgets for Human Resources</i>	<i>332</i>
Displacement of Health Workers	332
<i>Distribution of Health Personnel</i>	<i>332</i>
<i>Migration of Health Personnel</i>	<i>333</i>
<i>International Agreements on Migration of Health Personnel</i>	<i>334</i>
Relationships between Health Workers and Health Institutions	334
<i>Changes in the Nature of Employment and Contracting Systems</i>	<i>334</i>
<i>Diversity in Labor Systems</i>	<i>334</i>

<i>Decentralization in Health Human Resources Management</i>	335
<i>Health Positions and Career Paths</i>	335
<i>Qualifications, Recruitment, and Careers of Health Managers</i>	335
<i>Management and Regulation of Health Personnel Conflicts</i>	336
<i>Training for Health Workers</i>	336
Interaction between Professional Training Institutions and Health Services	336
<i>Programs and Experiences with In-Service Education</i>	336
 FUNCTIONS OF HEALTH SYSTEMS: TRENDS AND CURRENT SITUATION	337
The Health Sector and the Health System	337
Conceptual Differences in the Operational Scope of Health Systems	338
General Trends in Health Reforms in Latin America and the Caribbean	
That Have Influenced the Traditional Functions of Health Systems	338
<i>Trends in Stewardship</i>	338
<i>Trends in Financing and Insurance</i>	338
<i>Trends in Health Services Delivery</i>	340
 STEWARDSHIP FUNCTION	341
Conceptual and Methodological Development of the Stewardship Function,	
2001–2005	341
The Stewardship Function and Strengthening Health Systems	342
Conceptual Framework of the Stewardship Function in Health	342
<i>Effective Health Leadership</i>	342
<i>Effective Health Regulation and Supervision</i>	342
<i>Financing Function</i>	343
<i>Insurance Function</i>	343
<i>Health Services Delivery Function</i>	344
Actions to Strengthen the Stewardship Function in Latin America	
and the Caribbean	344
<i>Building Capacity to Regulate and Oversee the Pharmaceutical Sector: The Case of Brazil</i> ..	344
<i>Building the Leadership Capacity of the Health Authority: The Case of Chile</i>	344
<i>Building the Leadership Capacity of the Ministry of Health: The Case of Costa Rica</i>	344
Challenges	345
 THE PROVISION OF HEALTH CARE SERVICES AS A FUNCTION OF THE	
HEALTH SYSTEM	345
Levels of Health Care Services	345
Access to Health Care Services	345
Quality of Health Care Services	346
<i>Equity and Efficiency in the Delivery of Health Care Services</i>	347
Development of High-Performing Health Care Delivery Systems	347
<i>Challenges to Developing High-Performing Health Care Delivery Models</i>	347
<i>Emerging Trends in Health Care Delivery Models</i>	347
<i>The Goal: Integrated Health Care Services</i>	348
<i>Effects of High-Performing Health Care Delivery Models on Health Outcomes</i>	349
<i>Challenges in the Organization and Management of Health Care Services</i>	349
<i>Trends in the Management of Health Care Services</i>	349
<i>Capacity-Building for Optimal Management of Health Care Services</i>	350

<i>Health Care Services Monitoring and Performance Measurement</i>	351
<i>Emerging Trends in Health Care Services</i>	351
MEDICINES AND HEALTH CARE TECHNOLOGIES	351
Medicines	351
<i>Pharmaceutical Policies</i>	351
<i>The Pharmaceutical Market</i>	352
<i>Trade and Health</i>	353
<i>Harmonization</i>	354
<i>Supply of Medicines</i>	354
<i>Rational Use of Medicines</i>	355
Vaccines	355
<i>Vaccine Regulation</i>	356
Imaging and Radiotherapy Services	356
<i>Imaging Services</i>	356
<i>Radiotherapy Services</i>	357
<i>Planning and Management of Imaging and Radiotherapy Diagnostic Services</i>	358
<i>Protection against Radiation Risks</i>	359
Blood Services	359
<i>Clinical and Public Health Laboratories</i>	360
SCIENTIFIC INFORMATION ON HEALTH: ACCESS AND UTILIZATION	362
Trends in Scientific Production in Latin America and the Caribbean: 2000–2005 ...	363
Current Situation and Initiatives	366
<i>The Virtual Health Library</i>	366
<i>SciELO</i>	366
<i>International Network of Information and Knowledge Sources for Sciences, Technology</i> <i>and Innovation Management</i>	366
<i>Regional Congress on Health Sciences Information</i>	367
<i>Network of Science and Technology Health Indicators</i>	368
Outlook and Needs	368
RENEWING PRIMARY HEALTH CARE IN THE AMERICAS	369
The Context for Primary Health Care	370
Building Primary Health Care-Based Health Systems	372
The Way Forward	373
5. HEALTH AND INTERNATIONAL COOPERATION	382
OFFICIAL DEVELOPMENT ASSISTANCE	384
The Elusive 0.7% of GNP Aid Target	384
ODA for Latin America and the Caribbean	385
Official Development Assistance for Health	387
ODA for Health in Latin America and the Caribbean	387
Global Burden of Disease and Official Development Assistance for Health	390
PUBLIC/PRIVATE PARTNERSHIPS: A NEW FORM OF HEALTH COOPERATION ...	390
TECHNICAL COOPERATION AMONG COUNTRIES	393

HARMONIZATION, ALIGNMENT, AND COORDINATION OF INTERNATIONAL COOPERATION RESOURCES FOR HEALTH	394
THE FUTURE OF INTERNATIONAL COOPERATION IN THE AMERICAS	394
HEALTH AND INTEGRATION PROCESSES IN THE AMERICAS	395
Integration in the Southern Cone	395
Integration in the Andean Area	396
Integration in Central America	397
Integration in the Caribbean	398
Integration in North America	399
6. PROSPECTS FOR REGIONAL HEALTH	401
Trends that Condition the Future of Health	401
Response to Regional Trends: The Health Agenda for the Americas, 2008–2017	402
Perspectives Regarding Action in Health	404
Comments of Dr. George A. O. Alleyne	405
Comments of Drs. Stephen Blount and Jay McAuliffe	407
Comments of Dr. Paolo Buss	408
Comments of Dr. Nils Arne Kastberg	411
Comments of Dr. Gustavo Kourí	412
Comments of Dr. Sylvie Stachenko	413
Comments of Dr. Muthu Subramanian	414
Comments of Dr. Ricardo Uauy	418
Comments of Dr. Marijke Velzeboer-Salcedo	419
The Continuing Regional Commitment: Planning for the Future of Health in the Americas	421
<i>Acronyms</i>	423

See page xiii for the list of figures and tables.