

Contents

Foreword	ix
Preface	xi
About the Authors	xiii
Acknowledgements	xv
Glossary of Terms	xvii
1 Issues in the Management of Pharmaceuticals in International Health	1
<i>Stuart Anderson and Reinhard Huss</i>	
1.1 Introduction	1
1.2 Pharmaceuticals, medicines and drugs	2
1.3 International health	3
1.4 The emergence of medicines	4
1.5 Global inequity and the medicines life cycle	6
1.6 The study of pharmaceuticals in international health	12
1.7 Approaches to managing pharmaceuticals	13
1.8 Layout of the book	14
1.9 Conclusion	16
2 Access and Availability of Pharmaceuticals in International Health	19
<i>Karin Wiedenmayer</i>	
2.1 Introduction	19
2.2 Access to essential medicines	20
2.3 Neglected diseases	26
2.4 Strategies for developing medicines and ensuring access	28
2.5 Conclusion	29
3 Assessing the Pharmaceutical Needs of Patients and Populations	33
<i>Reinhard Huss</i>	
3.1 Introduction	33
3.2 Public health pharmacology	34
3.3 Incidence of disease	34
3.4 Needs and priorities for medicines	37

3.5	Culture and the use of medicines	42
3.6	Patients as consumers	45
3.7	Compliance, adherence and concordance	47
3.8	Empowerment	49
3.9	Conclusion	50
4	The Role of Health Professionals	53
	<i>Karin Wiedenmayer</i>	
4.1	Introduction	53
4.2	Classifying health professionals	54
4.3	Health professionals and medicine responsibilities	54
4.4	The role of the doctor	57
4.5	The role of the pharmacist	59
4.6	Traditional healers	63
4.7	Integrating traditional medicine and Western medicine	66
4.8	Conclusion	68
5	The Role of the Pharmaceutical Industry	71
	<i>Stuart Anderson</i>	
5.1	Introduction	71
5.2	The origins and development of the pharmaceutical industry	72
5.3	Structure of the industry today	74
5.4	Pharmaceutical company partners	77
5.5	The activities of the industry	79
5.6	Pharmaceutical markets	82
5.7	The pharmaceutical industry and international health	82
5.8	Conclusion	84
6	The Role of Governments	87
	<i>Rob Summers</i>	
6.1	Introduction	87
6.2	The development of national drug policies	88
6.3	The drug supply process	91
6.4	Health systems that support drug supply	95
6.5	Pharmaceutical legislation and regulation	98
6.6	Research, monitoring and evaluation	101
6.7	Conclusion	103
7	The Role of the European Union, National Assistance Agencies and NGOs	105
	<i>Reinhard Huss and Stuart Anderson</i>	
7.1	Introduction	105
7.2	The European Union	106
7.3	The national aid agencies	109
7.4	International and national NGOs	113

7.5	Some non-governmental organizations	115
7.6	Equitable pharmaceutical supply and distribution	120
7.7	Conclusion	123
8	The Role of International Organizations	125
	<i>Rob Summers</i>	
8.1	Introduction	125
8.2	WHO and other UN organizations	126
8.3	Industry organizations	128
8.4	Other organizations	129
8.5	Essential drugs	130
8.6	Pharmaceutical procurement	132
8.7	International agreements and intellectual property rights	135
8.8	Case study-HIV/AIDS and antiretroviral treatment in South Africa ...	137
8.9	Conclusion	140
9	Rational Use of Medicines	141
	<i>Karin Wiedenmayer</i>	
9.1	Introduction	141
9.2	Consequences of non-rational medicine use	142
9.3	Medicine use behaviour	143
9.4	Investigating medicine use problems	145
9.5	Medicine use interventions	146
9.6	Effectiveness of interventions	149
9.7	Conclusion	150
10	Medicine Quality, Adverse Reactions and Antimicrobial Resistance	153
	<i>Karin Wiedenmayer</i>	
10.1	Introduction	153
10.2	Quality of medicines	154
10.3	Counterfeit medicines	160
10.4	Adverse drug reactions	163
10.5	Antimicrobial resistance	167
10.6	Conclusion	172
11	Managing Medicines Information	175
	<i>Reinhard Huss</i>	
11.1	Introduction	175
11.2	The users of medicine information	176
11.3	Sources of information	177
11.4	The quality of medicines information	181
11.5	The assessment of information	183
11.6	Classification systems	185
11.7	Conclusion	188

12	Investigating the Use of Medicines	191
	<i>Reinhard Huss</i>	
12.1	Introduction	191
12.2	Drug utilization studies	192
12.3	Pharmacoeconomics	194
12.4	Pharmacovigilance	198
12.5	Pharmacoepidemiology	201
12.6	Health systems and policy studies	203
12.7	Conclusion	204
13	Trends and Developments	207
	<i>Stuart Anderson and Karin Wiedenmayer</i>	
13.1	Introduction	207
13.2	Trends in the use of herbal remedies	208
13.3	The contribution of pharmacogenetics and pharmacogenomics	209
13.4	The changing role of the internet	211
13.5	Changes in the health care workforce	214
13.6	Conclusion	220
14	Policy Initiatives and their Implications	223
	<i>Stuart Anderson and Rob Summers</i>	
14.1	Introduction	223
14.2	The role of public-private partnerships	224
14.3	The Global Fund and other initiatives	229
14.4	Global procurement of medicines	231
14.5	AIDS drugs post Doha	233
14.6	Conclusion	235
	Selected Websites and Webportals	237
	Index	249