

Contents

Preface	vii
List of contributors	ix
Acknowledgements	xiii

Section 1: General

1 Clinical pharmacology	2
<i>Mike Schachter</i>	
2 Topics in drug therapy	5
<i>Mike Schachter</i>	
3 Discovery and development of drugs	28
<i>Patrick Vallance</i>	
4 Evaluation of drugs in humans	37
<i>Ian Hudson, June Raine</i>	
5 Health technology assessment	56
<i>Michael Rawlins</i>	
6 Regulation of medicines	63
<i>Ian Hudson, Keith MacDonald, June Raine</i>	
7 Classification and naming of drugs	71
<i>Morris J. Brown</i>	

Section 2: From pharmacology to toxicology

8 General pharmacology	76
<i>Mike Schachter, Munir Pirmohamed</i>	
9 Unwanted effects and adverse drug reactions	112
<i>Mike Schachter</i>	

10 Poisoning, overdose, antidotes	125
<i>Stephen Haydock</i>	
11 Drug dependence	139
<i>Stephen Haydock</i>	

Section 3: Infection and inflammation

12 Chemotherapy of infections	166
<i>David A. Enoch, Mark Farrington</i>	
13 Antibacterial drugs	178
<i>David A. Enoch, Mark Farrington</i>	
14 Chemotherapy of bacterial infections	198
<i>David A. Enoch, Mark Farrington, Surender K. Sharma</i>	
15 Viral, fungal, protozoal and helminthic infections	221
<i>Sani Aliyu</i>	
16 Drugs for inflammation and joint disease	248
<i>Clare Thornton, Justin C. Mason</i>	
17 Drugs and the skin	269
<i>Thomas K. K. Ha</i>	

Section 4: Nervous system

18 Pain and analgesics	288
<i>Michael C. Lee, Mark Abrahams</i>	
19 Anaesthesia and neuromuscular block	308
<i>Jerry P. Nolan</i>	

20 Psychotropic drugs 324
*David Nutt, Simon Davies,
 Blanca M. Bolea-Alamanac*

21 Neurological disorders – epilepsy, Parkinson’s
 disease and multiple sclerosis 365
Paul Bentley, Pankaj Sharma

Section 5: Cardiorespiratory and renal systems

22 Cholinergic and antimuscarinic
 (anticholinergic) mechanisms
 and drugs 392
Morris J. Brown, Fraz A. Mir

23 Adrenergic mechanisms and drugs 403
Morris J. Brown

24 Arterial hypertension, angina
 pectoris, myocardial infarction and
 heart failure 415
Morris J. Brown

25 Cardiac arrhythmia 451
Andrew Grace

26 Hyperlipidaemias 468
John P. D. Reckless

27 Kidney and genitourinary tract 479
Thomas F. Hiemstra

28 Respiratory system 495
Lucinda Kennard

Section 6: Blood and neoplastic disease

29 Drugs and haemostasis 512
Mike Laffan, Trevor Baglin

30 Red blood cell disorders 528
M. Hasib Siddiqi, Wendy N. Erber

31 Neoplastic disease and
 immunosuppression 543
Harpreet Wasan

Section 7: Gastrointestinal system

32 Oesophagus, stomach and
 duodenum 562
*Devinder Singh Bansi, Charlotte Hateley,
 John Louis-Auguste*

33 Intestines 570
*Devinder Singh Bansi, Charlotte Hateley,
 John Louis-Auguste*

34 Liver and biliary tract 581
Graeme Alexander

Section 8: Endocrine system, metabolic conditions

35 Adrenal corticosteroids, antagonists,
 corticotropin 594
Diana C. Brown, Morris J. Brown

36 Diabetes mellitus, insulin, oral
 antidiabetes agents, obesity 608
Mark Evans, Rahat Tauni

37 Thyroid hormones, antithyroid
 drugs 625
Diana C. Brown

38 Hypothalamic, pituitary and sex
 hormones 635
Karim Meeran

39 Vitamins, calcium, bone 655
Chrysothemis Brown

Index 667