

# CLINICAL PHARMACY

AND

# THERAPEUTICS

Enhanced  
**DIGITAL  
VERSION**  
Included.  
*Details inside.*

SIXTH EDITION

CATE WHITTLESEA  
KAREN HODSON

ELSEVIER

# Contents

Preface v  
Acknowledgements vi  
List of Contributors vii

---

## Section 1 General 1

1. **Clinical pharmacy practice 2**  
Duncan McRobbie, David Webb, J. Graham Davies
2. **Prescribing 14**  
Helen Marlow, Cate Whittlesea
3. **Practical pharmacokinetics 34**  
Ray W. Fitzpatrick, Katie Maddock
4. **Drug interactions 53**  
Ruben Thanacoody
5. **Adverse drug reactions 66**  
Janet Kraska, Anthony R. Cox
6. **Laboratory data 81**  
John Warburton, Lee Beale
7. **Parenteral nutrition 105**  
Susanna J. Harwood, Alan G. Cosslett
8. **Pharmacoeconomics 125**  
Jonathan Cooke

---

## Section 2 Life Stages 131

9. **Neonates 132**  
Martin P. Ward-Platt
10. **Paediatrics 140**  
Catrin Barker, Octavio Aragon Cuevas
11. **Geriatrics 158**  
Hamsaraj Shetty, Ken Woodhouse

---

## Section 3 Therapeutics 173

2. **Dyspepsia, peptic ulcer disease and gastro-oesophageal reflux disease 174**  
Dan Groer
1. **Inflammatory bowel disease 196**  
Sarah Cripps

14. **Constipation and diarrhoea 230**  
Ian Smith, Jonathan Berry
15. **Adverse effects of drugs on the liver 243**  
Sara Sawieres
16. **Liver disease 258**  
Apostolos Koffas, Patrick Kennedy
17. **Acute kidney injury 278**  
Paul Cockwell, Stephanie Stringer, John Marriott
18. **Chronic kidney disease and end-stage renal disease 294**  
John Marriott, Paul Cockwell, Stephanie Stringer
19. **Hypertension 317**  
Helen Williams
20. **Coronary heart disease 335**  
Duncan McRobbie, Imran Hafiz
21. **Chronic heart failure 357**  
John McAnaw, Tobias Dreischulte
22. **Arrhythmias 380**  
Simon Sporton, Sotiris Antoniou
23. **Thrombosis 404**  
Philip A. Routledge, Hamsaraj Shetty, Simon J. Wilkins
24. **Dyslipidaemia 418**  
Helen Williams
25. **Asthma 440**  
Kelly Atack, Ian Clifton
26. **Chronic obstructive pulmonary disease 457**  
Trevor Rogers, Helen Maynell
27. **Insomnia 475**  
Deborah Baidoo, Michele Sic
28. **Anxiety disorders 484**  
Stephen Bleakley, David S. Baldwin
29. **Affective disorders 495**  
Alan Pollard
30. **Schizophrenia 513**  
Caroline Parker
31. **Epilepsy 524**  
Gonçalo Caçô, Josemir W. Sander
32. **Parkinson's disease 543**  
Emma Lane, Roger Barker



33. **Dementia** 557  
Denise Taylor
34. **Pain** 580  
Roger David Knaggs, Gregory J. Hobbs
35. **Nausea and vomiting** 597  
Emma Mason, Philip A. Routledge
36. **Respiratory infections** 607  
Catherine Molyneux, Ali Robb
37. **Urinary tract infections** 623  
Neil J. B. Carbars
38. **Gastro-intestinal infections** 635  
Jim Gray
39. **Infective meningitis** 647  
Jim Gray
40. **Surgical site infection and antimicrobial prophylaxis** 660  
Phillip Howard, Jonathan Sandoe
41. **Tuberculosis** 673  
Toby Capstick, Paul Whitaker
42. **HIV infection** 688  
Sheena Castelino, Alison Grant, Katie Conway
43. **Fungal infections** 728  
Manjusha Narayanan
44. **Thyroid and parathyroid disorders** 744  
Atul Kailhan, Mike D. Page
45. **Diabetes mellitus** 762  
Sallianne Kavenagh, Jackie Elliott
46. **Menstrual cycle disorders** 792  
Kay Marshall, Emma Crosbie
47. **Menopause** 806  
Kay Marshall, Emma Crosbie
48. **Drugs in pregnancy and lactation** 820  
Paula Russell, Laura Yates, Peter Golightly, Sarah Fennell
49. **Prostate disease** 835  
Linda Ross, Ben Challicombe, Sophie Rintoul-Hoad
50. **Anaemia** 855  
Niamh McGarry, Anthony Cadogan
51. **Leukaemia** 871  
Michelle Lannon, Gail Jones
52. **Lymphomas** 891  
Laura Cameron, Catherine Loughran
53. **Solid tumours** 909  
Netty (Annetto) Cracknell, Alan Lamont, Andrew Barr
54. **Rheumatoid arthritis and osteoarthritis** 923  
Tina Hawkins
55. **Gout and hyperuricaemia** 949  
Tina Hawkins
56. **Glaucoma** 965  
Tamara Ahmed Ali, Mark D. Donerty
57. **Drug-induced skin disorders** 984  
Sarah Walsh, Daniel Creamer
58. **Eczema and psoriasis** 997  
Richard Woolf, Nemsha Desai
59. **Wounds** 1017  
Samantha Holloway, Keith Harding
- 
- Section 4 Appendices** 1035
- Appendix 1 Medical abbreviations 1036
- Appendix 2 Glossary 1047
- Index 1053