

PHARMACOTHERAPY HANDBOOK

INTERNATIONAL EDITION

Terry L. Schwinghammer

Joseph T. DiPiro

Vicki L. Ellingrod

Cecily V. DiPiro

**Mc
Graw
Hill**

ELEVENTH EDITION

Contents

Preface	ix
---------------	----

INTRODUCTION

<i>Edited by Cecily V. DiPro and Terry L. Schwinghammer</i>	
The Patient Care Process	1

SECTION 1: BONE AND JOINT DISORDERS

<i>Edited by Terry L. Schwinghammer</i>	
1. Gout and Hyperuricemia	7
2. Osteoarthritis	15
3. Osteoporosis	22
4. Rheumatoid Arthritis	35

SECTION 2: CARDIOVASCULAR DISORDERS

<i>Edited by Terry L. Schwinghammer</i>	
5. Acute Coronary Syndromes	51
6. Arrhythmias	64
7. Cardiac Arrest	76
8. Dyslipidemia	82
9. Heart Failure	96
10. Hypertension	112
11. Ischemic Heart Disease	129
12. Shock Syndromes	138
13. Stroke	149
14. Venous Thromboembolism	156

SECTION 3: DERMATOLOGIC DISORDERS

<i>Edited by Terry L. Schwinghammer</i>	
15. Acne Vulgaris	167
16. Dermatologic Drug Reactions and Common Skin Conditions	174
17. Psoriasis	180

SECTION 4: ENDOCRINOLOGIC DISORDERS

<i>Edited by Terry L. Schwinghammer</i>	
18. Adrenal Gland Disorders	189
19. Diabetes Mellitus	197
20. Thyroid Disorders	218

SECTION 5: GASTROINTESTINAL DISORDERS

<i>Edited by Joseph T. DiPro and Terry L. Schwinghammer</i>	
21. Cirrhosis and Portal Hypertension	229

22. Constipation	229
23. Diarrhea	245
24. Gastroesophageal Reflux Disease	251
25. Hepatitis, Viral	260
26. Inflammatory Bowel Disease	269
27. Nausea and Vomiting	281
28. Pancreatitis	293
29. Peptic Ulcer Disease	302

SECTION 6: GYNECOLOGIC AND OBSTETRIC DISORDERS

Edited by Vicki L. Ellingrod

30. Contraception	309
31. Hormone Therapy in Women	329
32. Pregnancy and Lactation	343

SECTION 7: HEMATOLOGIC DISORDERS

Edited by Cecily V. DiFiro

33. Anemias	357
34. Sickle Cell Disease	363

SECTION 8: INFECTIOUS DISEASES

Edited by Joseph T. DiStasio

35. Antimicrobial Regimen Selection	369
36. Central Nervous System Infections	379
37. Endocarditis	386
38. Fungal Infections, Invasive	398
39. Fungal Infections, Superficial	412
40. Gastrointestinal Infections	422
41. Human Immunodeficiency Virus Infection	429
42. Influenza	440
43. Intra-Abdominal Infections	447
44. Respiratory Tract Infections, Lower	459
45. Respiratory Tract Infections, Upper	475
46. Sepsis and Septic Shock	482
47. Sexually Transmitted Diseases	490
48. Skin and Soft-Tissue Infections	508
49. Surgical Prophylaxis	531
50. Tuberculosis	541
51. Urinary Tract Infections and Prostatitis	558
52. Vaccines, Toxoids, and Other Immunobiologics	568

SECTION 9: NEUROLOGIC DISORDERS

Edited by Vicki L. Ellingrod

53. Alzheimer Disease	575
54. Epilepsy and Status Epilepticus	583

55. Headache: Migraine and Tension-Type	617
56. Pain Management	630
57. Parkinson Disease	656

SECTION 10: NUTRITION SUPPORT

Edited by Cecily V. DiPiro

58. Obesity	667
59. Nutrition Assessment and Support	674

SECTION 11: ONCOLOGIC DISORDERS

Edited by Cecily V. DiPiro

60. Breast Cancer	687
61. Colorectal Cancer	699
62. Lung Cancer	712
63. Lymphomas	721
64. Prostate Cancer	728

SECTION 12: OPHTHALMIC DISORDERS

Edited by Cecily V. DiPiro

65. Glaucoma	741
--------------------	-----

SECTION 13: PSYCHIATRIC DISORDERS

Edited by Vicki L. Ellingrod

66. Anxiety Disorders	749
67. Bipolar Disorder	767
68. Depressive Disorder	783
69. Opioid Use Disorder	801
70. Schizophrenia	813
71. Sleep-Wake Disorders	830
72. Substance Use Disorders: Alcohol, CNS Depressants, Stimulants, Nicotine	839

SECTION 14: RENAL DISORDERS

Edited by Cecily V. DiPiro

73. Acid-Base Disorders	855
74. Acute Kidney Injury	864
75. Chronic Kidney Disease	872
76. Electrolyte Homeostasis	889

SECTION 15: RESPIRATORY DISORDERS

Edited by Terry L. Schwengelmeyer

77. Allergic Rhinitis	905
78. Asthma	915
79. Chronic Obstructive Pulmonary Disease	928

SECTION 16: UROLOGIC DISORDERS*Edited by Cassidy V. DiPiro*

80. Benign Prostatic Hyperplasia	941
81. Erectile Dysfunction	950
82. Urinary Incontinence	966

APPENDICES*Edited by Terry L. Schwinghammer*

Appendix 1. Pediatric Pharmacotherapy, Nutrition, and Neonatal Critical Care	975
Appendix 2. Geriatric Assessment and Pharmacotherapy	984
Appendix 3. Critical Care Patient Assessment and Pharmacotherapy	988
Appendix 4. Drug Allergy	996
Appendix 5. Drug-Induced Hematologic Disorders	1001
Appendix 6. Drug-Induced Liver Disease	1007
Appendix 7. Drug-Induced Pulmonary Disease	1009
Appendix 8. Drug-Induced Kidney Disease	1017
Appendix 9. Drug-Induced Ophthalmic Disorders	1024
Index	1023