Contents

Contributors, ix
Foreword, xiii
Preface, xv
Acknowledgment, xvii

Section 1: Introduction
1 Anesthetic complications—how bad things happen, 3
   Robert C. Bosack

Section 2: Patient risk assessment
2 History and physical evaluation, 9
   Kyle Kramer, Trevor Treasure, Charles Kates, Carrie Kleene, and Jeffrey Bennett
3 Laboratory evaluation, 15
   Kyle Kramer and Jeffrey Bennett
4 NPO guidelines, 19
   Kyle Kramer and Jeffrey Bennett

Section 3: Anesthetic considerations for special patients
5 Anesthetic considerations for patients with cardiovascular disease, 25
   Erik Anderson and Robert Bosack
6 Anesthetic considerations for patients with respiratory disease, 49
   Robert C. Bosack and Zak Messieha
7 Anesthetic considerations for patients with endocrinopathies, 61
   Daniel Sarasin, Kevin McCann, and Robert Bosack
8 Anesthetic considerations for patients with psychiatric illness, 71
   Daniel L. Orr, Robert C. Bosack, and John Meiszner
9 Anesthetic considerations for patients with neurologic disease, 79
   Joseph A. Giovannitti
10 Anesthetic considerations for patients with hepatic disease, 85
    Jeffrey Miller and Stuart Lieblich
11 Anesthetic considerations for patients with renal disease, 89
    Marc H. Levine and Andrea Schreiber
12 Anesthetic considerations for pediatric patients, 93
    Michael Rollert and Morton Rosenberg
13 Anesthetic considerations for geriatric patients, 97
    Andrea Schreiber and Peter M. Tan
14 Anesthetic considerations for patients with bleeding disorders, 103
    O. Ross Beirne
15 Anesthetic considerations for patients with cancer, 113
    Andrea M. Fonner and Robert C. Bosack
16 Anesthetic considerations for pregnant and early postpartum patients, 117
    Robert C. Bosack

Section 4: Review of anesthetic agents
17 Clinical principles of anesthetic pharmacology, 123
   Richard C. Robert
18 Local anesthetic pharmacology, 129
   Roy L. Stevens and Robert C. Bosack
19 Enteral sedation agents, 133
   Richard C. Robert
20 Parenteral anesthetic agents, 135
   Richard C. Robert
21 Inhalational anesthetic agents, 143
22 Antimuscarinics and antihistamines, 151
   Richard C. Robert
23 Drug interactions, 155
   Kyle Kramer and Richard C. Robert

Section 5: Monitoring
24 Limitations of patient monitoring during office-based anesthesia, 163
   Robert C. Bosack and Ken Lee

Section 6: Preparation for adversity
25 Crisis resource management, 173
   Joseph Kras
26 Simulation in dental anesthesia, 177
   Joseph Kras
27 Airway adjuncts, 181
   H. William Gottschalk
28 Intravenous fluids, 185
   Cara Riley, Kyle Kramer, and Jeffrey Bennett
29 Emergency drugs, 189
   Daniel A. Haas
Section 7: Anesthetic adversity
30 Failed sedation, 201
   Roy L. Stevens and Kenneth L. Reed
31 Complications with the use of local anesthetics, 207
   M. Anthony Pogrel, Roy L. Stevens, Robert C. Bosack,
   and Timothy Orr
32 Anesthetic adversity – cardiovascular problems, 219
   Robert C. Bosack and Edward C. Adlesic
33 Anesthetic adversity—respiratory problems, 231
   Charles F. Cangemi, Edward C. Adlesic, and Robert C. Bosack
34 Allergy and anaphylaxis, 251
   H. William Gottschalk and Robert C. Bosack
35 Anesthetic adversity – neurologic problems, 257
   Michael Trofa and Robert C. Bosack
36 Acute, adverse cognitive, behavioral, and
   neuromuscular changes, 261
   Edward Adlesic, Douglas Anderson, Robert Bosack,
   Daniel L. Orr, and Steven Ganzberg
37 Anesthetic problems involving vasculature, 271
   Stuart Lieblich

Section 8: Post-anesthetic adversity
38 Nausea and vomiting, 277
   Edward Adlesic
39 Post-anesthetic recall of intraoperative awareness, 283
   Robert C. Bosack
40 Delayed awakening from anesthesia, 287
   Stuart E. Lieblich

Section 9: When bad things happen
41 Safe discharge after office-based anesthesia, 291
   Stuart Lieblich and Peter M. Tan

Section 10: When should you say no
45 When should you say no? 315
   Andrew Herlich and Robert C. Bosack

Section 11: Appendices
Appendix A  A pilot’s perspective on crisis resource
   management, 323
   David Yock
Appendix B  Medical emergency manual for the general
   practitioner, 325
   Robert C. Bosack
Appendix C  Malignant hyperthermia Q & A, 337
   Edward C. Adlesic and Steven I. Ganzberg
Index, 339