

Contents

<i>Foreword</i>	ix
<i>Preface</i>	xi
<i>Contributors</i>	xiii
1. Physiological Changes During Pregnancy	1
<i>Shaiko Missouri, Trevor Miller, and Taylor Mueller</i>	
2. The Placenta: Anatomy, Physiology, Uteroplacental Blood Flow, and Drug Transfer	19
<i>Sandra N. Gonzalez, Easha Patel, and Christa L. Riley</i>	
3. Fetal Physiology and Antepartum Fetal Surveillance	38
<i>Agathe Streiff and Yelena Spitzer</i>	
4. Coexisting Disease and the Parturient: Part One—Cardiovascular, Respiratory, Renal, Gastrointestinal Systems	53
<i>Carole Zouki and Aladino De Ranieri</i>	
5. Coexisting Disease and the Parturient: Part Two—Hematologic, Neurologic, Musculoskeletal and Immune Systems	64
<i>Benjamin F. Aquino, Afshin Heidari, and Leila Haghi</i>	
6. Parturient Pre-Anesthesia Assessment and Evaluation	77
<i>Patrick McConville, Carrie Polin, and Justin Swengel</i>	
7. The High-Risk Obstetric Patient: Pregnancy-Induced Conditions	87
<i>Jacqueline Curbelo</i>	
8. Intrapartum Monitoring and Fetal Assessment	107
<i>Courtney Rhoades and Kristen Vanderhoef</i>	
9. Obstetric Management of Labor and Vaginal Delivery	118
<i>Marianne David, Geoffrey Ho, Daniel Fisher, Laura Roland, Everett Chu, and Michelle S. Burnette</i>	
10. Pharmacology and Non-anesthetic Drugs During Pregnancy and Lactation	131
<i>Adam L. Wendling</i>	
11. Local Anesthetics	144
<i>Michelle Eddins</i>	
12. Opioid Analgesia	154
<i>Najmeh Izadpanah, Seung Lee, Kanchana Gattu, and Blake Watterworth</i>	
13. Neuraxial Anesthesia	164
<i>Paulina Cardenas</i>	

viii Contents

14. Alternative Regional Anesthetic Techniques	174
<i>Michelle S. Burnette, Laura Roland, Everett Chu, and Marianne David</i>	
15. Non-Opioid Analgesic Techniques for Labor and Vaginal Delivery	186
<i>Anvinh Nguyen, Yi Deng, and Melissa A. Nikolaidis</i>	
16. Non-pharmacologic Labor Analgesia	195
<i>Michael Marotta and David Gutman</i>	
17. Neuraxial Techniques and Medications for Cesarean Delivery	203
<i>Elvera L. Baron and Daniel Katz</i>	
18. Airway Management	214
<i>Joel Sirianni and Robert Mester</i>	
19. General Anesthesia for Cesarean Delivery	227
<i>Lacey E. Straube</i>	
20. Obstetric Hemorrhage	240
<i>Faiza A. Khan and Jill M. Mhyre</i>	
21. Cesarean Delivery: Postoperative Management	257
<i>Thais Franklin dos Santos, Arina Ghosh, and Reine Zbeidy</i>	
22. Neonatal Assessment and Resuscitation	280
<i>Fatoumata Kromah, Darshna Bhatt, Nayef Chahin, Miheret Yitayew, and Joseph Khoury</i>	
23. Postpartum Complications in Obstetric Anesthesia	295
<i>Lucy Li, Jingping Wang, Alan D. Kaye, and Henry Liu</i>	
24. Trauma and Critical Care During Pregnancy	313
<i>Gavin T. Best, Melissa A. Nikolaidis, and Yi Deng</i>	
25. Non-obstetric Surgery During Pregnancy	328
<i>Arunthevaraja Karuppiah, Jessica Galey, and Shobana Bharadwaj</i>	
26. Anesthesia for Fetal Surgery	339
<i>Beata Evans, Kevin Quinn, Rajanya S. Petersson, Timothy Wills, and Fatoumata Kromah</i>	
27. Anesthesia and Assisted Reproductive Techniques	356
<i>Nora Martin, Fadi Farah, and Shamantha Reddy</i>	
28. Medicolegal Issues in Obstetric Anesthesia	366
<i>Samuel Onyewu and Fatoumata Kromah</i>	
<i>Index</i>	375