CONTENTS

1. **Bleeding Obstetric Patient—How to Address the Problem?** 1
   Nibedita Pani, Devishree Das

2. **Maternal Collapse during Lower Uterine Cesarean Section** 10
   Bandi S Lakshmi

3. **Anesthetic Management of Pregnant Patients with Valvular Heart Disease for Nonobstetric Surgery** 19
   Anupam Goswami

4. **Hypertensive Disorders in Pregnancy—Challenge to Anesthesiologists** 25
   Gayatri R

5. **Trauma in Pregnancy** 37
   Gayatri Tanwar, Anju Grewal

6. **Blood Conservation Strategies in Obstetric Hemorrhage** 45
   Ekambara Krishnan

7. **Pediatric Difficult Airway Management** 49
   Vijayaragavan Shanmugakani

8. **Cystic Hygroma: Anesthetic Implications and Management** 56
   PR Mohanty, Gesu Mehrotra, Abhinav Banerjee

9. **Pediatric Patient with Respiratory Tract Infection** 60
   Neerja Bhardwaj

10. **Fluid and Blood Transfusion Therapy in Pediatric Patients** 64
    Manjushree Ray

11. **Ventilation Strategies in Infants and Children** 69
    M Subrahmanyam

12. **Pediatric Laparoscopic Surgery and Anesthesiologist** 79
    Anila Malde

13. **Anesthesia for Children with Liver Disease** 87
    R Subramanium

14. **Anesthesia in a Child with Congenital Heart Disease for Noncardiac Surgery** 98
    Mahesh Vakamudi

15. **Postoperative Delirium and Agitation in Children** 103
Ranju Singh

16. **Blood Conservation in Pediatric Cardiac Surgery** 107
Bharat Shah

17. **Ventilator Associated Lung Injury** 113
Mallika Bhattacharya, Dipankar Das Gupta

18. **Perioperative Cardiac Emergencies** 117
Muralidhar K

19. **Blunt Chest Injury with Ruptured Aorta Anesthetic Challenges** 126
Rupa Sreedhar

20. **Anesthesia for Grown-up Congenital Heart Disease** 132
B Ranjith Karthekeyan, Dwarakesh Thalamati

21. **Anesthetic Management of Video Assisted Thoracoscopic Surgery** 138
Jayashree Sood

22. **Anesthesia in Heart Transplant Surgery: What is New?** 141
R Gopinath

23. **Coagulation Monitoring in Perioperative Period in High Risk Patients** 151
Jayashree Sen

24. **Lung Protective Ventilation in the Operating Room** 158
Peter Slinger

25. **Recent Advances in Obesity Anesthesia** 164
Gautam Saha

26. **Monitoring in Bariatric Surgery** 169
Rekha Das

27. **Management of Patients with CVA: Role of the Anesthesiologist** 174
Ritesh Lamsal, Girija P Rath

28. **Management of Unstable Cervical Spine: Role of Anesthesiologist** 179
Nidhi B Panda, Ritu Mallik

29. **Spinal Surgery and Anesthesiologist** 187
KK Narani

30. **Spinal Cord Monitoring During Scoliosis Surgery** 193
Amna Goswami

31. **Achieving Excellence in Perioperative Medicine** 202
Ravi P Mahajan

32. **Common Perioperative Endocrine Insufficiencies: How to Detect and Manage** 205
Umesh K Bhadani

33. **Anesthetic Management in a Patient Undergoing Laparotomy for Carcinoid Syndrome** 213
P Krishna Prasad

34. **Malignant Hyperthermia** 219
Rajib K Bhattacharyya

35. **Trauma Updates: Recent Literature Review that will Change Our Practice** 222
Meenu Chadha

36. **Thermal Burns and Role of Anesthesiologist** 229
SP Meenakshisundaram

37. **Anesthesia for Ophthalmic Surgery** 236
Rasesh P Diwan

38. **Pulse, Tissue Oximetry, and Capnography** 244
Sabyasachi Das, Mohanchandra Mandal

39. **Arterial Blood Gas Interpretation** 255
Aloka Samantaray

40. **Fluid Therapy in Sepsis: An Update** 261
Thomas Koshy

41. **A New Wave in Noninvasive Volume Directed Therapy: Where Are We Now?** 266
Prabhat Tewari

42. **Core Temperature Monitoring and Management** 269
Anita Malik

43. **Newer Anticoagulants and Anesthesia** 274
Chumki Datta

44. **Anaphylaxis: The Sting Can Come from Anywhere** 285
Sadhana Sanwatsarkar

45. **Micronutrients in Critical Care** 291
Tanmoy Ghatak

46. **Metabonomics in Intensive Care Unit** 298
DP Samaddar, Binita Panigrahi

47. **Anesthesia for Multispecialty Robot Assisted Surgeries** 303
Sangeeta Khanna, Jyotirmoy Das

48. Infectious Disease (Hepatitis, HIV and MRSA) and Risk of Caregiver **310**
Pankaj Kumar

49. Neuromodulation Therapies for Chronic Pain **314**
Raghu S Thota

50. Role of Regional Anesthesia in Patients Undergoing Cancer Surgery **316**
Rakesh Garg, Mahima Gupta

51. Cancer Pain Management: Recent Advances **325**
Supratik Sen

52. Errors and Critical Incidence in Anesthesia **331**
Vaishali Shelgaonkar

53. Basics of Transesophageal Echocardiography **336**
Subhendu Sarkar, Sangshaptak Saha