

Contents

Section 1: General

1. Critical Care in Perioperative Period—Need, Indications, Infrastructure, and Staffing	3
<i>Harish MM, Robert James Premkumar, Ramya BM, Atul Prabhakar Kulkarni</i>	
2. Oxygen Therapy in the Perioperative Period	9
<i>Bindiya Salunke, Madhusudan Jaju, Amol Kothekar</i>	
3. Airway Management in Critical Care Unit	23
<i>Sheila Nainan Myatra</i>	
4. Pain, Agitation, and Delirium in Postoperative Period	36
<i>Srinivas Samavedam, Nandhakishore Jampala</i>	
5. Goal Directed Fluid Therapy in Perioperative Critical Care	41
<i>Kushal R Kalvit, Atul Prabhakar Kulkarni</i>	
6. Shock in Postoperative Period	46
<i>Ashit Hegde</i>	
7. Fluid and Electrolyte Disturbances in the Perioperative Period	50
<i>Kishore Mangal, Vaibhav Bhargava</i>	
8. Acid-base Disturbances in the Perioperative Period	67
<i>Atul Prabhakar Kulkarni, Jigeeshu Vasistha Divatia</i>	
9. Acute Respiratory Failure in Postoperative Patient	74
<i>Rajesh Chawla, Prashant Nasa, Aakanksha Chawla Jain</i>	
10. Venous and Pulmonary Thromboembolism	81
<i>Ruchira Wasudeo Khasne, Atul Prabhakar Kulkarni</i>	

Section 2: Cardiothoracic and Vascular

11. Perioperative Management of Coronary Artery Bypass Grafting	97
<i>Yatin Mehta, Ajmer Singh</i>	
12. Perioperative Management of Pediatric Cardiac Surgeries	106
<i>Virendra K Arya, Ganesh Kumar Munirathinam</i>	
13. Perioperative Management of Valvular Heart Surgeries	116
<i>Neeti Vijay Dogra, Ganesh Kumar Munirathinam</i>	
14. Perioperative Management of Blunt Trauma Chest Injuries	129
<i>Sandeep Sahu, Mekhala Paul, Arindam Chatterjee</i>	
15. Perioperative Management of Mediastinal Mass Excision	141
<i>Madhavi Shetmahajan</i>	
16. Perioperative Management of Major Lung Resections	146
<i>Swapnil Parab, Priya Ranganathan</i>	
17. Perioperative Management of Tracheal Tumor Surgeries	156
<i>Sushan Gupta, Jigeeshu Vasistha Divatia</i>	