Contents

Section 1: General

1.	Critical Care in Perioperative Period—Need, Indications, Infrastructure, and Staffing
2.	Oxygen Therapy in the Perioperative Period
3.	Airway Management in Critical Care Unit
4.	Pain, Agitation, and Delirium in Postoperative Period
5.	Goal Directed Fluid Therapy in Perioperative Critical Care
6.	Shock in Postoperative Period
7.	Fluid and Electrolyte Disturbances in the Perioperative Period
8.	Acid-base Disturbances in the Perioperative Period
9.	Acute Respiratory Failure in Postoperative Patient
10.	Venous and Pulmonary Thromboembolism
	Section 2: Cardiothoracic and Vascular
11.	Perioperative Management of Coronary Artery Bypass Grafting97 Yatin Mehta, Ajmer Singh
12.	Perioperative Management of Pediatric Cardiac Surgeries
13.	Perioperative Management of Valvular Heart Surgeries
14.	Perioperative Management of Blunt Trauma Chest Injuries
15.	Perioperative Management of Mediastinal Mass Excision
16.	Perioperative Management of Major Lung Resections
17.	Perioperative Management of Tracheal Tumor Surgeries

18.	Perioperative Management of Major Vascular Surgeries Sapna Annaji Nikhar	167
19.	Perioperative Management of Esophageal Surgeries Priya Ranganathan, Swapnil Parab	179
20.	Perioperative Myocardial Infarction Virendra K Arya, Sunder L Negi, Rajeev Chauhan	186
	Section 3: Neurosciences	
21.	Perioperative Management of Intracranial Aneurysm	197
22.	Perioperative Management of Brain Tumor Surgeries including Awake Craniotomy Shwetal Goraksha, Joseph Monteiro	210
23.	Perioperative Management of Spinal Surgeries Devendra Gupta, Shashi Srivastava	221
24.	Perioperative Management of Neurotrauma	234
	Section 4: Pediatrics	
25.	Perioperative Management of Neonatal Developmental Defects	245
26.	Perioperative Management of Pediatric Major Abdominal Cancer Jeson Rajan Doctor, Nayana Amin	258
27.	Neonatal Postoperative Critical Care	266
	Section 5: Obstetrics and Gynecology	
28.	Perioperative Management of Postpartum Obstetric Hemorrhage	277
29.	Perioperative Management of Major Gynecological Cancer	287
30.	Perioperative Management of Patients with Pre-eclampsia and Eclampsia Gauri Saroj, Sonali Saraf, Dilip R Karnad	294
31.	Perioperative Management of Nonobstetric Major Surgeries in Pregnant Patient	302
	Section 6: Gastrointestinal	
32.	Perioperative Management of Pancreatic, Gastric and Retroperitoneal Mass Surgeries	313
33.	Perioperative Management of Major Liver Resections	319

34.	Perioperative Management of Colorectal Surgeries Lalita Gouri Mitra, Kelika Prakash	333
35.	Perioperative Management of Peritoneal Surface Malignancies for Cytoreductive Surgeries and Hyperthermic Intraperitoneal Chemotherapy	339
36.	Perioperative Management of Blunt Trauma Abdomen	349
37.	Perioperative Management of Emergency Laparotomy and Damage Control Surgeries Praveen Kumar G, Deepak Govil	356
38.	Perioperative Management of Intra-abdominal Hypertension and Abdominal Compartment Syndrome Malini P Joshi, Shilpushp Bhosale, Atul Prabhakar Kulkarni	362
	Section 7: Genitourinary	
39.	Perioperative Management of Bladder and Prostate Cancer Surgeries	373
40.	Perioperative Management of Renal Tumor Surgeries/Nephrectomy	382
41.	Perioperative Management of Adrenal and Extra-adrenal Pheochromocytoma Sushil Ambesh, Amit Rastogi	389
	Section 8: Orthopedics	
42.	Perioperative Management of Major Orthopedic Surgeries Including Hemi-Pelvectomies Sohan Lal Solanki, Subha Padakannaya, Atul Prabhakar Kulkarni	401
43.	Perioperative Management of Major Orthopedic Trauma	407
	Section 9: Head and Neck	
44.	Perioperative Management of Major Head and Neck Cancers	419
45.	Perioperative Management of Skull Base and Pituitary Surgeries	429
	Section 10: Transplantation	
46.	Perioperative Management of Renal Transplantation Divya Srivastava, Abhilash Chandra, Sohan Lal Solanki	437
47.	Perioperative Management of Liver Transplantation	451
48.	Perioperative Management of Heart Transplantation	459
49.	Perioperative Management of Lung Transplantation	465

Section 11: Miscellaneous

50.	Nutrition in Perioperative Care	475
51.	Prehabilitation and Rehabilitation	479
52.	Physiotherapy and Weaning from Mechanical Ventilation	487
53.	Perioperative Hemodynamic Monitoring Harish MM, Sudhindra Prakash Kanavehalli, Atul Prabhakar Kulkarni	495
54.	Vasoactive Agents Suhail Sarwar Siddiqui, Abdullah Zoheb Azhar, Atul Prabhakar Kulkarni	509
55.	Blood Transfusion in the Perioperative Period	519
56.	Role of Point-of-care Ultrasound in the Perioperative Period	533
57.	Perioperative Management of Hypertension Vijay Chakkaravarthy KR, Nagarajan Ramakrishnan	547
58.	Antibiotic Strategies in Postoperative Period	552
59.	Transthoracic Echocardiography Amol Kothekar, Anuja Bidkar	556
60.	Transes op hage al Echocardiography	576
61.	Perioperative Renal Replacement Therapy Natesh Prabu R, Atul Prabhakar Kulkarni	587
62.	Postoperative Pulmonary Complications	594
63.	Perioperative Mechanical Ventilation	601
64.	Sepsis and Infection Control in Perioperative Care Debashree P Lahiri, Vijaya Patil	610
65.	Perioperative Nursing	615
66.	Audit and Quality Improvement	622
67.	Communication in the Perioperative Period	630
68.	Evaluation and Management of Obstructive Sleep Apnea during Perioperative Period	636
Inda		647