

Contents

Section 1: Respiratory System

Section Editors: Suresh Ramasubban, Chandana Reddy

- 1. Current Approach to Weaning: Role of Ultrasound and Biomarkers..... 3**
Ankit Sharma, Shrikanth Srinivasan
- 2. Ventilation-induced Lung Injury: Ergotrauma..... 11**
Suresh Ramasubban
- 3. Transpulmonary Pressure: Physiology and Implications at Bedside..... 19**
Dhruva Chaudhry, Monica Chhikara
- 4. Nebulized Drug Delivery: A Contemporary Review 27**
Babu K Abraham

Section 2: Hemodynamics

Section Editors: Atul P Kulkarni, Niranjana Panigrahi

- 5. Noninvasive Hemodynamic Monitoring as a Tool: Current Practice and Evidence 37**
Sheila Nainan Myatra, Tarun Arun Sahu, Abhishek Singh Ranbahadur Rajput
- 6. The Choice of Vasopressor in Shock: Current Evidence..... 44**
Jose Chacko
- 7. Best Papers of the Decade on Shock and Hemodynamic Monitoring 53**
Sumit Ray, Anjali Mishra
- 8. Personalized Hemodynamic Targets: The Need of the Hour? 62**
Rahul Pandit

Section 3: Infections and Antimicrobials

Section Editors: Subhash Todi, Madhusudan R Jaju

- 9. Looking Beyond Antimicrobials: Newer Concepts and Technologies..... 69**
Monika Rajani, Yash Javeri

- 10. Emerging Choices for Resistant Infections 78**
Parikshit S Prayag
- 11. Biomarkers in Sepsis: What to Expect in Future? 84**
K Swarna Deepak, T Lakshminarayana
- 12. Critical Appraisal of Surviving Sepsis Guidelines 2021 91**
Vaishali Solao

Section 4: Hematology

Section Editors: Pradeep Rangappa, Kaladhar Seshala

- 13. Hemophagocytic Lymphohistiocytosis Syndrome: Increasing Relevance to the Intensivist and All about it 99**
Hemanth Chalasani, Pavan Kumar Reddy N
- 14. Expanding Role of Rotational Thromboelastometry in Critical Care: What to Expect 105**
Deepak Govil, Divya Pal
- 15. Current Evidence on Transfusion Strategies in ICU 114**
Sunil Karanth
- 16. Update on Neutropenic Sepsis 121**
Venkat Raman Kola, Sritharan Goda

Section 5: Organizational Issues

Section Editors: Palepu B Gopal, Nanda Kishore Jampala

- 17. Lessons Learned: Role of Critical Care Professionals Post COVID-19 Pandemic 141**
Manoj Y Singh
- 18. Big Data Analysis and AI: How can Intensive Care Benefit? 150**
Sai Praveen Haranath
- 19. Post-ICU Follow-up: What to Look for and How to Schedule? 160**
K Subba Reddy, Sathrasala Srinivas
- 20. Communication in ICU Using IT Tools 170**
Ketan Vijay Kargirwar

Index 175