

Contents

Part I

1 Introduction.....	3
Mitchell M. Levy and Nicholas S. Ward	
2 Sepsis Definitions.....	7
Debasree Banerjee and Mitchell M. Levy	
3 Epidemiology of Sepsis: Current Data and Predictions for the Future	25
Bashar Staitieh and Greg S. Martin	

Part II

4 Overview of the Molecular Pathways and Mediators of Sepsis.....	47
Tristen T. Chun, Brittany A. Potz, Whitney A. Young, and Alfred Ayala	
5 Sepsis-Induced Immune Suppression	71
Nicholas Csikesz and Nicholas S. Ward	
6 Molecular Targets for Therapy	89
Andre C. Kalil and Steven M. Opal	

Part III

7 Mechanisms of Organ Dysfunction and Altered Metabolism in Sepsis.....	107
Douglas R. Closser, Mathew C. Exline, and Elliott D. Crouser	
8 Sepsis-Induced AKI	127
Hernando Gomez, Alex Zarbock, Raghavan Murugan, and John A. Kellum	

9 Sepsis and the Lung 143
MaryEllen Antkowiak, Lucas Mikulic, and Benjamin T. Suratt

10 Organ Dysfunction in Sepsis: Brain, Neuromuscular, Cardiovascular, and Gastrointestinal..... 159
Brian J. Anderson and Mark E. Mikkelsen

Part IV

11 Diagnosis of Sepsis: Clinical Findings and the Role of Biomarkers 187
Daithi S. Heffernan

12 Source Control in Sepsis..... 207
Michael Connolly and Charles Adams

13 Hemodynamic Support in Sepsis..... 219
Jean-Louis Vincent

14 Bundled Therapies in Sepsis 225
Laura Evans and William Bender

15 Genetics in the Prevention and Treatment of Sepsis..... 237
John P. Reilly, Nuala J. Meyer, and Jason D. Christie

Index..... 265



<http://www.springer.com/978-3-319-48468-6>

Sepsis

Definitions, Pathophysiology and the Challenge of
Bedside Management

Ward, N.S.; Levy, M.M. (Eds.)

2017, XI, 271 p. 16 illus., 8 illus. in color., Hardcover

ISBN: 978-3-319-48468-6

A product of Humana Press