

# Contents

## Part I

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

## Part II

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

## Part III

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

<b>9 Sepsis and the Lung .....</b>	<b>143</b>
MaryEllen Antkowiak, Lucas Mikulic, and Benjamin T. Suratt	
<b>10 Organ Dysfunction in Sepsis: Brain, Neuromuscular, Cardiovascular, and Gastrointestinal .....</b>	<b>159</b>
Brian J. Anderson and Mark E. Mikkelsen	
 <b>Part IV</b>	
<b>11 Diagnosis of Sepsis: Clinical Findings and the Role of Biomarkers .....</b>	<b>187</b>
Daithi S. Heffernan	
<b>12 Source Control in Sepsis .....</b>	<b>207</b>
Michael Connolly and Charles Adams	
<b>13 Hemodynamic Support in Sepsis .....</b>	<b>219</b>
Jean-Louis Vincent	
<b>14 Bundled Therapies in Sepsis .....</b>	<b>225</b>
Laura Evans and William Bender	
<b>15 Genetics in the Prevention and Treatment of Sepsis .....</b>	<b>237</b>
John P. Reilly, Nuala J. Meyer, and Jason D. Christie	
<b>Index .....</b>	<b>265</b>

## 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