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Nota di contenuto	Sepsis and Non-infectious Systemic Inflammation; Contents; Preface; List of Contributors; Part I Clinical Aspects of Sepsis and SIRS; 1 Definition of Sepsis and Non-infectious SIRS; 1.1 Introduction; 1.2 Sepsis Syndrome; 1.3 Systemic Inflammatory Response Syndrome; 1.4 Sepsis Markers; 1.5 Inflammation versus Infection; 1.6 Conclusion; References; 2 Epidemiology of Sepsis and Non-infectious SIRS; 2.1 Introduction; 2.2 Epidemiology of SIRS: Incidence and Prevalence; 2.3 Epidemiology of Sepsis: Incidence and Prevalence; 2.4 Epidemiology of SIRS and Sepsis: Outcome 2.5 Explanations for the Variability in Estimates of Incidence, Prevalence and Mortality2.5.1 Problems with the Definitions of Sepsis; 2.5.2 Differences in Study Design; 2.5.3 Lack of Consistency in Reported Indices; 2.5.4 'Hidden' Sepsis; 2.5.5 Poor and Missing Data; 2.5.6 Real Differences in Regional Epidemiology of Sepsis; 2.6 Conclusions Based

on Available Epidemiological Data; 2.6.1 Trends over Time: Incidence, Mortality; 2.6.2 Disparities in the Burden of Sepsis: Race and Gender; 2.6.3 Site of Primary Infection; 2.6.4 Organism; 2.6.5 Environmental Factors in Risk

2.7 Special Populations 2.7.1 Malignancy; 2.7.2 HIV; 2.7.3 Children; 2.8 Resource Utilization; 2.9 Prevention, Early Intervention, and Systems of Care; 2.10 Outcome other than Mortality; 2.11 Implications for Planning of Health Services; References; 3 Similarities of the Clinical Aspects of Sepsis and Non-infectious SIRS; 3.1 Introduction; 3.2 Case Report; 3.3 Epidemiology of SIRS; 3.4 SIRS Criteria reflect Systemic Inflammation; 3.4.1 Fever; 3.4.2 Tachycardia; 3.4.3 Leucocytosis; 3.4.4 Tachypnea; 3.5 Phenomenon Triggering Inflammation; 3.5.1 Infectious Etiology; 3.5.2 Non-infectious Etiology

3.6 Circulating Markers for Systemic Inflammation Characterization 3.7 Conclusion; Acknowledgments; References; 4 Organ Dysfunctions during Severe Sepsis and Septic-like Syndromes: Epidemiology, Classification, and Mechanisms; 4.1 Definitions; 4.2 Classification of Organ Dysfunctions; 4.3 Epidemiology; 4.4 Pathophysiology of Organ Dysfunctions in Sepsis; 4.4.1 Microvascular Dysfunction; 4.4.2 Endothelial Injury and Coagulopathy; 4.4.3 Endothelial Activation; 4.4.4 Endothelial Dysfunction; 4.4.5 Cytopathic Hypoxia; 4.4.5.1 Inhibition of Pyruvate Dehydrogenase

4.4.5.2 Inhibition of Cytochrome a(1)a(3) 4.4.5.3 Inhibition of Mitochondrial Enzyme under the Influence of Peroxynitrite (ONOO(-)); 4.4.5.4 The Poly (ADP-ribose) Polymerase (PARP-1) Hypothesis; 4.4.6 Inflammatory Cytokines; 4.5 Main Organ Dysfunctions; 4.5.1 Cardiocirculatory Dysfunction; 4.5.1.1 Cardiac Dysfunction; 4.5.1.2 Vascular Dysfunction; 4.5.2 Renal Dysfunction; 4.5.3 Respiratory Dysfunction; 4.5.4 Brain Dysfunction; 4.5.5 Hematologic Dysfunction; 4.5.6 Hepatic Dysfunction; 4.6 Critique of the Organ Dysfunction Concept and of the Scores used in ICU Patients

4.7 Organ Failure: Severity Marker or Protective Phenomenon?

Sommario/riassunto

Providing definitions, clinical features and epidemiology, this handbook and reference adopts a comprehensive approach, describing in detail the various physiological systems involved. As such, it is the first to combine sepsis and non-infectious SIRS, reviewing both the biological and medical aspects of these two important syndromes. The whole is rounded off with a discussion of past, present and future therapies.
