

Special Issue

Early Diagnosis of Sepsis: Current Status and Challenges

Message from the Guest Editors

Sepsis is a widespread systemic disease and is a common reason for people to be admitted to the Emergency Department (ED). It is also one of the main causes of death among patients who access the ED. According to the 2016 third international consensus on sepsis, sepsis is defined as a syndrome characterized by an uncontrolled response of the organism to an infectious stimulus, and it is considered a life-threatening condition. The incidence of sepsis has been steadily increasing since the first consensus definition (Sepsis-1) in 1991, with approximately 49 million cases of sepsis and 11 million sepsis-related deaths all over the world in 2017. Based on existing literature, it is hypothesized that measuring presepsin levels in the ED could enhance the speed and specificity of diagnosis, compared to the current diagnostic approach, potentially improving outcomes for patients presenting with sepsis-like symptoms. The objective of our study is to evaluate the role of serum presepsin levels in the early diagnosis of sepsis in patients with suggestive clinical signs, comparing its performance with traditional biomarkers such as CRP, PCT, and blood cultures.

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