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**Name of Journal:** *World Journal of Critical Care Medicine*

**Manuscript NO:** 64157

**Manuscript Type:** REVIEW

**Sepsis: Evidence-based pathogenesis and treatment**

Jay Pravda

### Abstract

Sepsis can develop during the body's response to a critical illness leading to multiple organ failure, irreversible shock, and death. Sepsis has been vexing health care providers for centuries due to its insidious onset, generalized metabolic dysfunction, and lack of specific therapy. A common factor underlying sepsis is the characteristic hypermetabolic response as the body ramps up every physiological system in its fight

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## Incidence, pathogenesis, and management of sepsis: an ...

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Sepsis is a complex condition that occurs as a result of the systemic manifestation of infection. It is associated with high morbidity and mortality risks for critically ill patients. Assessment and monitoring aimed at early recognition and treatment, on the basis of evidence-based guidelines, are advocated for optimizing outcomes for patients with severe sepsis.

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Publish Year: 2006

## The pathophysiology and treatment of sepsis

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The pathophysiology and treatment of sepsis. The pathophysiology and treatment of sepsis. The pathophysiology and treatment of sepsis N Engl J Med. 2003 Jan 9;348(2):138-50. doi: 10.1056/NEJMra021333. Authors Richard S Hotchkiss 1 , Irene E Karl. Affiliation 1 ...

Cited by: 5166

Author: Richard S Hotchkiss, Irene E Karl

Publish Year: 2003

### PEOPLE ALSO ASK

What is the diagnosis for sepsis? ▾

What is the international guidelines for management of sepsis and septic shock? ▾

When does empiric antibiotic treatment reduce mortality in severe sepsis? ▾

What do you need to know about sepsis management? ▾

Feedback

## [Sepsis: new insights into its pathogenesis and treatment].

<https://www.ncbi.nlm.nih.gov/pubmed/20170566>

Implementation of evidence-based guidelines for the rapid diagnosis and adequate treatment of sepsis has been shown to be instrumental in improving survival in sepsis. The increasing insights into the pathogenesis of sepsis have identified a whole new range of potential drugs which are currently being



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## [Incidence, pathogenesis, and management of sepsis: an ...](https://pubmed.ncbi.nlm.nih.gov/17091040)

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Sepsis is a complex condition that occurs as a result of the systemic manifestation of infection. It is associated with high morbidity and mortality risks for critically ill patients. Assessment and monitoring aimed at early recognition and treatment, on the basis of evidence-based guidelines, are advocated for optimizing outcomes for patients with severe **sepsis**.

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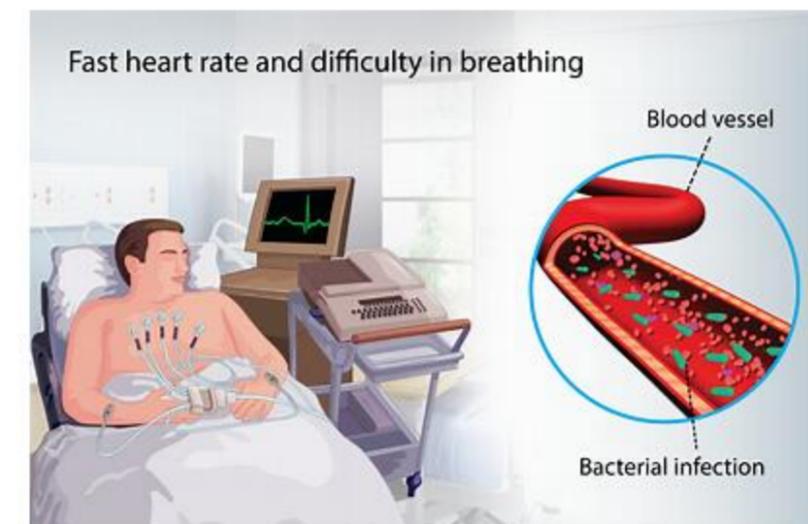
## [Sepsis: The evolution in definition, pathophysiology, and ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6429642)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6429642>

Mar 21, 2019 · **Sepsis** is a systemic response to infection, manifested by two or more of the SIRS criteria as a result of infection. Severe **sepsis**: **Sepsis** associated with organ dysfunction, hypoperfusion, or hypotension; hypoperfusion and perfusion abnormalities may include, but not limited to, lactic acidosis, oliguria, or an acute alteration in mental status.

## Sepsis

Medical Condition



An infection of the blood stream resulting in a cluster of symptoms such as drop in a blood pressure, increase in heart rate and fever

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# Sepsis

Also known as: blood poisoning



OVERVIEW SYMPTOMS DIAGNOSIS **TREATMENT**

A number of medications are used to treat sepsis. The patient needs to be hospitalized. Mechanical ventilation may be required.

Medication

Therapy

## Specialist to consult

**Critical care physician**  
Specializes in diagnosis and management of life-threatening conditions that may require sophisticated organ support and invasive monitoring.

What are the causes?

What are some prevention tips?

How is this diagnosed?

For informational purposes only. Consult a medical professional for advice.

Reviewed by a panel of doctors. Source: Focus Medica. [Learn more](#)

Was this helpful?

## People also ask

Is there an evidence-driven tool to guide the early recognition of sepsis?

What kind of medications are used to treat sepsis?

How is the Surviving Sepsis Campaign helping patients?