



Take the Shock out of Sepsis

*Strengthen healthcare provider
competence and confidence[®]
in the early identification and treatment of sepsis.*



SIMSUITE[®]
MEDICAL SIMULATION CORPORATION

Sepsis

Sepsis is the 10th-leading cause of death in the United States and one of just two infectious conditions included in the leading 15 causes of death. Sepsis incidence, mortality, and cost associated with sepsis has increased over the past several decades.* Early diagnosis and appropriate treatment of sepsis is crucial to improving patient outcomes. The SimSuite Sepsis Quality Initiative Program focuses on the early identification and treatment of sepsis, based on the Surviving Sepsis Campaign (SSC) guidelines. MSC's Program has been revised to include SSC 2009 and 2010 guidelines updates. The Program is authored by Barbara A. McLean, MN, RN, CCRN, CCNS.

Web-based Course

The SimSuite Sepsis Program offers three options for the web-based course. The web-based courses may be taken on their own and also prepare healthcare providers for the sepsis simulation workshop. Each course features a pre-course knowledge check and post-course test.

Sepsis: This course focuses on the early identification and treatment of patients with sepsis and includes the SSC Resuscitation Bundle and the SSC Management Bundle. 3.0 CE

Sepsis Comprehensive: This course focuses on the early identification and treatment of patients with sepsis, with a focus on tissue oxygenation, and the SSC Resuscitation and SSC Management Bundles. This course also features supplemental content on the pathophysiology of sepsis and the rationale behind sepsis treatment and monitoring recommendations. 5.0 CE

Sepsis Library: This course series features seven modules, in two series. Each module provides an in-depth focus of different areas of identification and treatment of sepsis. The modules may be completed individually, or in combination, to meet specific healthcare organization learning objectives. The Sepsis Continuum Series features instruction on the four stages of sepsis. The Surviving Sepsis Series focuses on the treatment of sepsis and the prevention of the evolution of sepsis into septic shock (CE pending for all modules).

- Sepsis Continuum (4 modules): SIRS, Sepsis, Severe Sepsis, Septic Shock
- Surviving Sepsis (3 modules): Sepsis Resuscitation, Sepsis Management, Interpreting Acid-Base Imbalance

Simulation Workshop

The SimSuite Sepsis Program Simulation Workshop is led by an MSC Clinical Educator or a hospital-based educator. The workshop includes a didactic review of the SSC guidelines and simulation training using a Laerdal SimMan®. Simulation scenarios allow participants to apply the SSC guidelines to patient care scenarios in a team-based environment, improving team communication. Simulation may also improve the standardization of care, contributing to hospital-based process and quality improvement. 4.0 CE available, when simulation is delivered by an MSC Clinical Educator and participants complete a web-based course prior to attending the workshop.

Participants and Training Objectives

The goal of the SimSuite Sepsis Program is to increase and reinforce the competence and confidence of any healthcare team member associated with the care of individuals who present with or develop sepsis. Participants may include physicians, medical students, physician assistants, nurse practitioners, nurses, and nursing students. Upon completion of the program, participants should be able to:

- Differentiate between sepsis, severe sepsis, and septic shock.
- Interrelate the patient's presenting signs and symptoms to those consistent with SIRS.
- Identify hospital findings that are correlated with an increased risk for sepsis (index of suspicion).
- Recognize signs and symptoms of organ dysfunction.
- Name findings indicative of decreased tissue oxygenation.
- Apply early goal-directed initial fluid resuscitation recommendations according to the SSC guidelines.
- Prioritize interventions used in the treatment of patients with severe sepsis/septic shock outlined in the SSC guidelines.
- Apply rationale for septic shock treatments.

Benefits

- Documentation of staff competence and compliance
- Consistent training across all staff
- Integration into Quality Improvement Programs
- Program based on guidelines, tools, and research from the Surviving Sepsis Campaign and the Institute of Healthcare Improvement (IHI)

Clinical Applicability

- It is estimated that in 2020, there will be over 1,000,000 sepsis cases diagnosed.
- The annual cost of treating septic patients in the U.S. is estimated at \$16.7 billion.
- Sepsis is one of The Joint Commission's core measure development activities.
- Mortality rates remain unacceptably high, from 20 percent (sepsis) to greater than 60 percent (septic shock).

*Melamed, A. and Sorvillo, F.J. The burden of sepsis-associated mortality in the United States from 1999 to 2005: an analysis of multiple-cause-of-death data. *Critical Care* 2009, 13:R28 doi: 10.1186/cc7733. Retrieved 11/18/11 from <http://ccforum.com/content/13/1/R28>

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