



# Take the Shock out of Sepsis

*Strengthen nurse and physician  
competence and confidence<sup>®</sup>  
in the early identification and treatment of sepsis.*



**SIMSUITE<sup>®</sup>**  
MEDICAL SIMULATION CORPORATION

# Sepsis

Early diagnosis and appropriate treatment of sepsis are crucial to improving patient outcomes. The Sepsis Program focuses on the early identification and treatment of sepsis, based on the Surviving Sepsis Campaign 2008 guidelines.

## Web-based Curriculum

MSC's **Sepsis Comprehensive** Web-based course is designed to educate participants on research-based guidelines surrounding the care of patients who develop sepsis. This comprehensive course focuses on the early identification, treatment, and long-term management of patients with sepsis, and is suitable for clinicians who work in critical care areas. Practitioners who work in noncritical care units may benefit from the MSC **Sepsis Concise** Web-based course which focuses on identifying the early signs and symptoms of sepsis as well as initial treatment. Either course can serve as the online component that prepares providers for the hands-on element of the Sepsis simulation workshop.

## Simulation Workshop

The Sepsis simulation workshop is a three-hour program that includes a brief didactic review of the Web-based course, an overview of specific documentation and procedures used by your hospital for the management of patients with sepsis, and simulation training using the Laerdal SimMan® human patient simulator.

Four simulation scenarios allow participants to simulate the early identification and management of patients who have (or develop) sepsis, severe sepsis, and septic shock in the hospital setting.

## Participants and Training Objectives

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

- Describe the difference between sepsis, severe sepsis, and septic shock.
- Identify signs and symptoms of SIRS.
- Discuss assessment findings correlated with patients who are at increased risk for sepsis (Index of Suspicion).
- Identify signs and symptoms of tissue hypoxia.
- Identify signs and symptoms of organ dysfunction.
- Discuss fluid resuscitation recommendations and goals according to the Surviving Sepsis Campaign guidelines.
- Identify correct early identification and treatment recommendations according to the Surviving Sepsis Campaign guidelines.
- Discuss 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:
  - ◆ Surviving Sepsis Campaign
  - ◆ Institute of Healthcare Improvement (IHI)
- The Sepsis Comprehensive continuing education activity was approved by the Association of periOperative Registered Nurses, Inc., for 4.0 contact hours. The Sepsis Concise continuing education activity was approved by the Association of periOperative Registered Nurses, Inc., for 1.5 contact hours. AORN is an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

## Clinical Applicability

According to the Surviving Sepsis Campaign Web site, sepsis is the body's response to infection. Normally, the body's defense system is able to fight infection. However, in severe sepsis, the body's normal reactions go into overdrive, setting off a cascade of events that lead to widespread inflammation and blood clotting in small vessels throughout the body.

Each year, sepsis strikes an estimated 750,000 people in the U.S. alone. Sepsis is the 10<sup>th</sup> most common cause of death and is the leading cause of death for critically ill patients in the U.S.\*

- The incidence of sepsis increases at a rate of 2-9% per year.
- The estimated annual cost of treating septic patients in the U.S. was \$16.7 billion in 2001.
- The average cost of treating one septic patient is \$50,000.
- Sepsis is one of The Joint Commission's core measure development activities.
- Mortality rates remain unacceptably high
  - ◆ 20 percent (sepsis)
  - ◆ 40 percent (severe sepsis)
  - ◆ >60 percent (septic shock)

\*Surviving Sepsis Campaign Web site: [www.survivingsepsis.org/sepsis/what\\_you\\_should\\_know](http://www.survivingsepsis.org/sepsis/what_you_should_know)

*For more information, contact [HealthcareGroup@medsimulation.com](mailto:HealthcareGroup@medsimulation.com).*



*Experience Through Education®*

Copyright © 2010 Medical Simulation Corporation

Medical Simulation Corporation  
4643 S. Ulster Street, Suite 650  
Denver, Colorado 80237  
t: 303.483.2800  
[www.medsimulation.com](http://www.medsimulation.com)