



Put a Cap on VAP

*Increase your team's competence and confidence[®]
in preventing and treating this costly infection.*



SIMSUITE[®]
MEDICAL SIMULATION CORPORATION

Ventilator-Associated Pneumonia

The SimSuite Ventilator-Associated Pneumonia (VAP) Program educates participants on the guidelines surrounding the prevention of VAP and treatment of patients with VAP, and outlines how practices should be modified to prevent and reduce the risk of this costly infection. The Program features content and patient simulation scenarios appropriate for all provider levels, from new nurses and residents to advanced-practice ICU nurses and attending physicians, and is based on the Institute for Healthcare Improvement 2008 "5 Million Lives Campaign" Ventilator-Associated Pneumonia Bundle and the Centers for Disease Control 2003 "Guidelines for Preventing Healthcare-Associated Pneumonia." The Program is authored by Brian Graham, MD.

Web-based Course

The SimSuite VAP Web Course is designed to educate participants on the research-based guidelines surrounding the prevention of VAP and treatment of patients with VAP. This course is designed for physicians and nurses working in critical care areas of the hospital. This course may be completed on its own, and also prepares providers for the VAP Simulation Workshop. 3.0 CE

Simulation Workshop

The SimSuite VAP Program Simulation Workshop is led by an MSC Clinical Educator or a hospital-based educator. The workshop includes a didactic review of the IHI and CDC guidelines, and simulation training using a Laerdal SimMan®. Simulation scenarios allow participants to apply the 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. Multiple simulation scenarios allow participants to practice identifying and caring for patients who have ventilator-associated pneumonia. *Approximate time for completion: 3 hours.*

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 hospital inpatients who require mechanical ventilation. Participants may include new and advanced practice ICU nurses, residents, fellows, and attending physicians. Upon completion of the program, participants should be able to:

- Describe the impact of VAP on healthcare.
- Distinguish between the pathophysiology associated with early- and late-onset VAP infections.
- Identify the assessment findings of risk factors that would increase the incidence of VAP.
- Explain the concept of colonization.
- List factors that promote colonization.
- Name three key assessment findings present in a patient with VAP.
- Describe the application of recommended general preventive measures to decrease the incidence of VAP.
- List the key points related to successful treatment of VAP.

Benefits

- Documentation of staff competence and compliance
- Consistent training across all staff
- Integration into Quality Improvement Programs
- Establishment of protocols
- Program based on guidelines, tools, and research from the Centers for Disease Control (CDC), Institute for Healthcare Improvement (IHI), American Association of Critical Care Nurses (AACN), American Thoracic Society (ATS), and Agency for Healthcare Research and Quality (AHRQ)

Clinical Applicability

Ventilator-Associated Pneumonia is pneumonia that occurs more than 48 hours after the initiation of mechanical ventilation and carries a significant mortality risk. Recent national healthcare quality initiatives focusing on risk factors that contribute to VAP have drawn attention to the morbidity and mortality associated with this hospital-acquired condition. Establishing protocols and education programs has been shown to significantly reduce the risk of this type of pneumonia.

- Patients receiving mechanical ventilation account for 86% of hospital-acquired pneumonia.
- Ventilator-associated pneumonia accounts for 60% of all deaths due to hospital-associated infections.
- Each year, an estimated 300,000 patients nationwide acquire VAP.
- There is an increased cost of \$40,000 - \$50,000 per hospital stay.
- There is a lack of current training and standards to help healthcare providers reduce the risk and improve early identification and treatment.

This continuing nursing education activity was approved by the Association of periOperative Registered Nurses, Inc., an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. AORN recognized this activity as continuing education for registered nurses. This recognition did not imply that AORN or the ANCC Commission on Accreditation approved or endorsed any product included in the presentation.

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