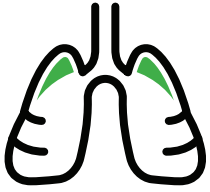
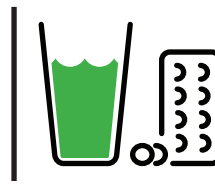


VENTILATOR ASSOCIATED EVENTS

CASE FOR CHANGE



According to the CDC, an estimated 160,000 healthcare-associated pneumonias occur in acute care hospitals in the US, 40% of which were ventilator-associated.¹



Patients with ventilator associated pneumonia required prolonged periods of mechanical ventilation, extended hospitalizations, excess use of antimicrobial medications and increased medical costs.¹

BOLD AIM & KEY DRIVERS

Reduce incidence of ventilator associated events by

20
PERCENT
by 2019.

- ◀ Intervention Priorities
- ◀ Monitoring and Surveillance
- ◀ Communication
- ◀ Patient and Family Engagement

KEY LEARNING

- Engage multidisciplinary teams in the process by creating awareness, training, and education around current evidence-based practice
- Engage and educate patients and families.
- Implement care bundles for mechanically ventilated patients

RAPID CYCLE INNOVATIONS

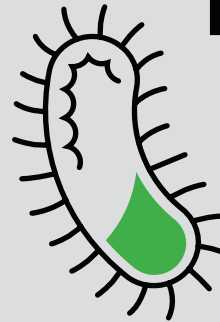
Intervention Priorities

- Implement a robust hand hygiene program
- Use noninvasive ventilation when possible
- Minimize the duration of ventilation
- Perform daily assessment of readiness to wean and use weaning protocols
- Educate healthcare personnel who care for patient undergoing ventilation about VAP/VAE
- Implement evidence based strategies to prevent aspiration (elevate head of bed, spontaneous awakening and breathing trials, oral care, subglottic suctioning)
- Implement ventilator bundle
- Implement policies and practices for disinfection, sterilization, and maintenance of respiratory equipment that are aligned with evidence-based standards

Monitoring and Surveillance

- Conduct daily active surveillance of all mechanically ventilated patients
- Use standardized NHSN definitions for monitoring and surveillance
- Implement a system for documenting information regarding ventilator care and maintenance in the patient record

MEASURES



Process:

- Ventilator bundle compliance

Outcome:

- Ventilator-associated condition
- Infection-related ventilator-associated complication
- Possible/probable ventilator-associated pneumonia

Communication

- Educate healthcare personnel who care for patient undergoing VAP/VAE

Patient and Family Engagement

- Provide education to patients and families about smoking cessation
- Encourage family members and patients to speak up about their care (e.g. handwashing, frequency of oral care for the patient, raising the head of the bed)

Source:
1. Magill SS., Edwards, JR., Bamberg, W., et al. "Multistate Point-Prevalence Survey of Health Care-Associated Infections, 2011". New England Journal of Medicine. 370: (2014): 1198-1208.

Last Updated: September 2017