HRET HIIN VAE Sprint

April 30, 2019
1:00 p.m. – 2:00 p.m. CT
Welcome and Introductions
Kavita Bhat, MD, MPH
Program Manager, HRET
Hello, My Name is…

- Name
- Hospital/State Hospital Association
- City, State
AGENDA

- Welcome and Introductions
- Sprint Overview
- VAE Sprint Tools
- Expectations
- Questions and Answers
- Bring it Home
Sprint Overview

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Maryanne Whitney, RN, CNS, MSN
Improvement Advisor, Cynosure
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Why VAE?

- Mechanical ventilation affects 800,000 hospitalized patients in the United States each year
- Five to 10 percent of mechanically ventilated patients develop a ventilator-associated event (VAE)
Harm from Mechanical Ventilation

- Historically, ventilator-associated pneumonia (VAP) was considered one of the most lethal healthcare-associated infections
- 35% mortality rate for ventilated patients
  - 24% for patients 15–19 years
  - 60% for patients 85 years and older
Not Just Mortality

Short-term

- Increase in complications
  - VAP
  - Sepsis
  - Acute respiratory distress syndrome (ARDS)
  - Pulmonary embolism
  - Barotrauma
  - Pulmonary edema
- Increase in health care costs
- Increase in length of stay

Long-term

- Slower overall recovery time
- Debilitating physical disabilities
- Lingering cognitive dysfunction
- Psychiatric issues,
  - anxiety,
  - depression, and
  - post-traumatic stress disorder
Most VAE’s arise from:

- ARDS
- Atelectasis
- Pneumonia
- Pulmonary edema

So how do we prevent these?
The largest volume of VAE!
Why Are We Here?

24 States

57 Hospitals
Why Are We Here?

- Increase the awareness of the importance of identifying and reporting all VAEs
- Utilize root cause analysis tools to assess VAE practices
- Define and utilize best practices for process improvements
- Maintain and Accelerate reduction in VAE harms
- Create peer to peer collaboration among states and hospitals
VAE Sprint Tools

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### VAE PROCESS IMPROVEMENT DISCOVERY TOOL

- Review 5 Charts (Maximum 10 charts)
- If the answer to the question is 'YES', mark an X in the box.
- The processes with the most blank boxes could be a priority focus.
- Spend no more than 20-30 minutes per chart

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**HRET HIM Process Improvement Discovery Tool**

**Ventilator-Associated Event (VAE)**

<table>
<thead>
<tr>
<th>Event</th>
<th>Chart 1</th>
<th>Chart 2</th>
<th>Chart 3</th>
<th>Chart 4</th>
<th>Chart 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cough compliance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RRT maintained at 30-40 degrees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral care performed every hour</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subcutaneous TPN present</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient was connected with an epidural in spite of possible infection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment and management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient was treated for acute respiratory failure</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Patient received a balanced diet and began to receive tube feeds</td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Patient got infected while on ECMO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient died</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Instructions:**
- Review the charts for 12 hours prior to the VAE. If the answer to the question is 'YES', mark an X in the box.
- The processes with the most blank boxes could be a priority focus.
- Spend no more than 20-30 minutes per chart.
Let's take a closer look at the tool

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>Chart #</th>
<th>Chart #</th>
<th>Chart #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Care bundle compliance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOB was maintained at 30-45 degrees</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral care performed every 4 hours</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Subglottic suction ETT present</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient was ventilated with 6-8 ml/kg of delivered TV or less, for</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>more than 20 hours/day</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment and screening</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient was treated for pain prior to receiving sedation</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Patient received 3 boluses of sedative prior to beginning an infusion</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

Blank Boxes = Areas of Focus!
VAE Coaching Guide

State Partner & Hospital 1:1 Coaching using VAE coaching guide

- Barriers/Concerns
- Champions
- Resources
- Action Plan
  - Aims
  - Strategies/Tactics
  - Deadlines
  - Evaluation
Expectations

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Hospital Expectations

- Select 1 VAE lead for the sprint
- Accept invites and participate in the 3 HRET HIIN VAE Sprint virtual events
- Complete pre-assessment (link here)
- Utilize the VAE Process Discovery Tool and submit it to your state partner
- Participate in 1 coaching session with their State Partner
- Complete post-sprint assessment

6 Easy Steps!
State Partner Expectations

✓ Accept invites and participate in the 3 HRET HIIN VAE Sprint virtual events

✓ Follow-up with hospitals to identify a lead for the sprint and remind them of hospital expectations throughout the sprint. Track your registered hospitals using the **collaborative tracking tool**.

✓ Schedule 1 coaching session with hospitals session of one-on-one coaching with hospitals utilizing the VAE Sprint Coaching Guide. Submit completed hospital process discovery tool and coaching guide to **kbhat@aha.org**
What should I complete before the next virtual event?

Hospitals
✓ Select 1 VAE lead for the sprint
✓ Complete pre-assessment (link here)
✓ Utilize the VAE Process Discovery Tool and submit it to your state partner.

State Partners
✓ Follow-up with hospitals (track your registered hospitals using the collaborative tracking tool.)
✓ Schedule a coaching call with each hospital
HRET HIIN VAE Sprint Virtual Event Schedule

- VAE #1: Tuesday, April 30, 2019 (1-2 PM CT) - [Register here](#).
- VAE #2: Tuesday, May 14, 2019 (1-2 PM CT) - [Register here](#).
- VAE #3: Monday, June 24, 2019 (1-2 PM CT) - [Register here](#).
- VAE Office Hours: Tuesday, June 25 (1-2 PM CT) – [Link Forthcoming](#)
Questions?
HRET Resources

2018 VAE Change Package

2018 VAE Checklist
thank you!