Ventilator Associated Pneumonia: Targeting Zero

The Quadruple Aim: Working Together, Achieving Success

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DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release; distribution unlimited
- Tripler Army Medical Center

- 239 bed Tertiary Care facility
  - 264,000 local active duty, retiree, family members, VAB
  - 171,000 referral population

Adult Intensive Care Unit
- 15 bed medical/surgical ICU
- Average census: 11.5 beds/day
- Average LOS: 3.1 days
- Average ventilator days/month: 116
Technical Work

- Addresses problems for which the definition is clear, the potential solutions are reasonably clear and usually require little or minimal learning

- Institute for Healthcare Improvement bundle
- Silver coated endotracheal tube
- Reinforced the ABC weaning protocol
- New closed suctioning system
Adaptive Work

- Addresses problems that require a change in attitudes, beliefs, and behavior

- Involves shared responsibility for change: leaders share responsibility with organizational staff and key stakeholders

- Most common error
  - Treating an adaptive problem as technical
Comprehensive Unit-Based Safety Program (CUSP)

Improve safety culture & learn from mistakes by integrating safety practices
How can we improve

“Every system is perfectly designed to achieve the results it gets”
Sentinel Event Data

Fall-related Events
Reviewed by The Joint Commission
(Resulting in death or permanent loss of function)

Infection-related Events
Reviewed by The Joint Commission
(Resulting in death or permanent loss of function)

Medical Equipment-related Events
Reviewed by The Joint Commission
(Resulting in death or permanent loss of function)

Suicide Events
Reviewed by The Joint Commission
(If any individual receiving care, treatment or services in a staffed around-the-clock care setting or within 72 hours of discharge)

Sentinel Event Alert #26: “Machine Cuts Related Sentinel Events”
January 2003

Sentinel Event Alert #30: “Preventing Needlestick & Sharp Injuries”
August 2001

Sentinel Event Alert #46: “Follow-Up Report on Preventing Suicide”
November 2010

Definition revised to include suicide within 72 hours of discharge
March 2005
Steps of CUSP

- Educate staff on Science of Safety
- Identify defects
  - Clinical or operational that you do not want to happen again
- Assign executive to adopt unit
  - Communication, attitudes, resources
- Learn from one defect per quarter
- Implement teamwork tools
So where are we now...

It has been 200 days since the Adult ICU last Ventilator Associated Pneumonia !!!!

7-77 VAPs. Remember:
- Wash your hands
- Elevation of the Head of the Bed (>30 degrees)
- Oral care every 4 hours
- Daily “Sedation Vacations” + Assessment of Readiness to Extubate
Summary

- Is a continuous process
- No longer just an “unfortunate” occurrence
- No longer satisfied to be below the national mean
  - Mean anchored us to mediocre performance
- Goal now is to strive for “zero”
MAHALO! (Thank you!)