



Reducing VAP

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About Us

- The ZAP VAP Campaign at Concord Hospital began in June 2008. Our goal was to eliminate Ventilator Associated Pneumonias in a 16 bed Medical-Surgical ICU.
- Not-for-profit hospital
- 238 beds
- 18,299 admissions annually





What Did We Test?

- Real time feedback on VAP bundle during rounds
- Monthly audits of compliance
- Oral care - frequency and components
- Education – used dentists and hygienists
- Patient room audits of equipment and oral care supplies



What Have We Learned So Far?

- Senior Management Backing-COO at Kick off breakfast for night and day staff
- Timely feedback and diligence to bundle compliance is key
- Peer champion to provide feedback
- Oral Health is important-teeth or gum brushing Q 6 hours & oral care Q 2hours
- HOB>30 degrees key in eliminating micro aspirates
- Subglottic ET tubes for High Risk & long term vented patients
- Multidisciplinary approach- everyone is involved



What Barriers Did We Encounter?

- After initial campaign, we still had VAP's
- Challenged with CDC definitions & Provider understanding
- Collaboration between Nursing and RT
- Educational gaps for all staff
- High Risk assessment- we couldn't see the similarities & trends
- Increased Cost of newer products



How Did We Overcome These Barriers?

- Each VAP occurrence involved a multidisciplinary focus review to look at similarities and lessons learned
- Senior Management support for initiative and a higher cost product
- Educate, educate, educate
- Implemented a bundle that was important to staff with teeth brushing & oral care



How Are We Doing Now?

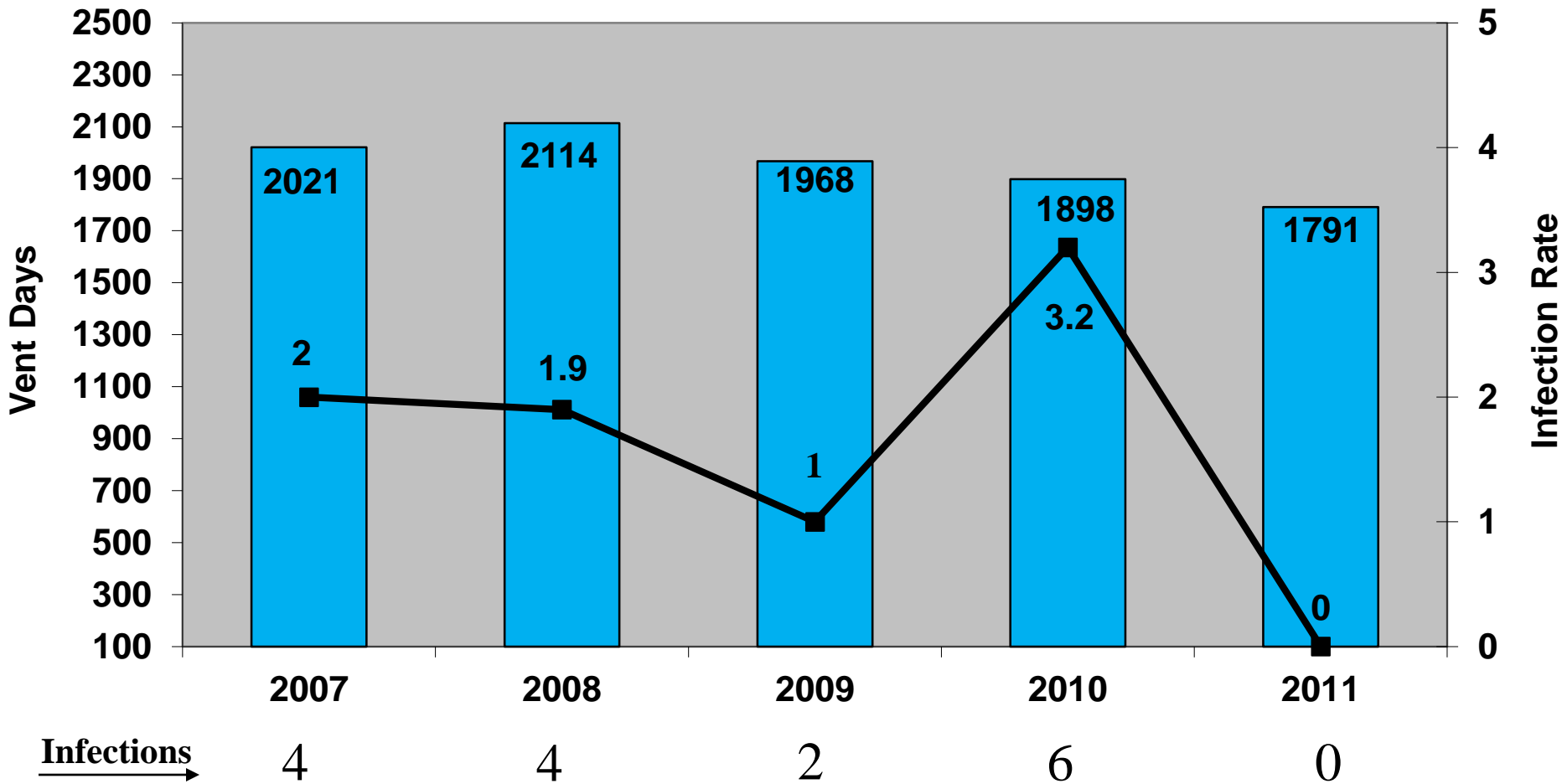
VAP FREE since September 6, 2010!

- Ongoing timely feedback with a peer champion
- Continued bundle compliance monthly audit
- Nursing yearly competency
- Daily discussion at rounds



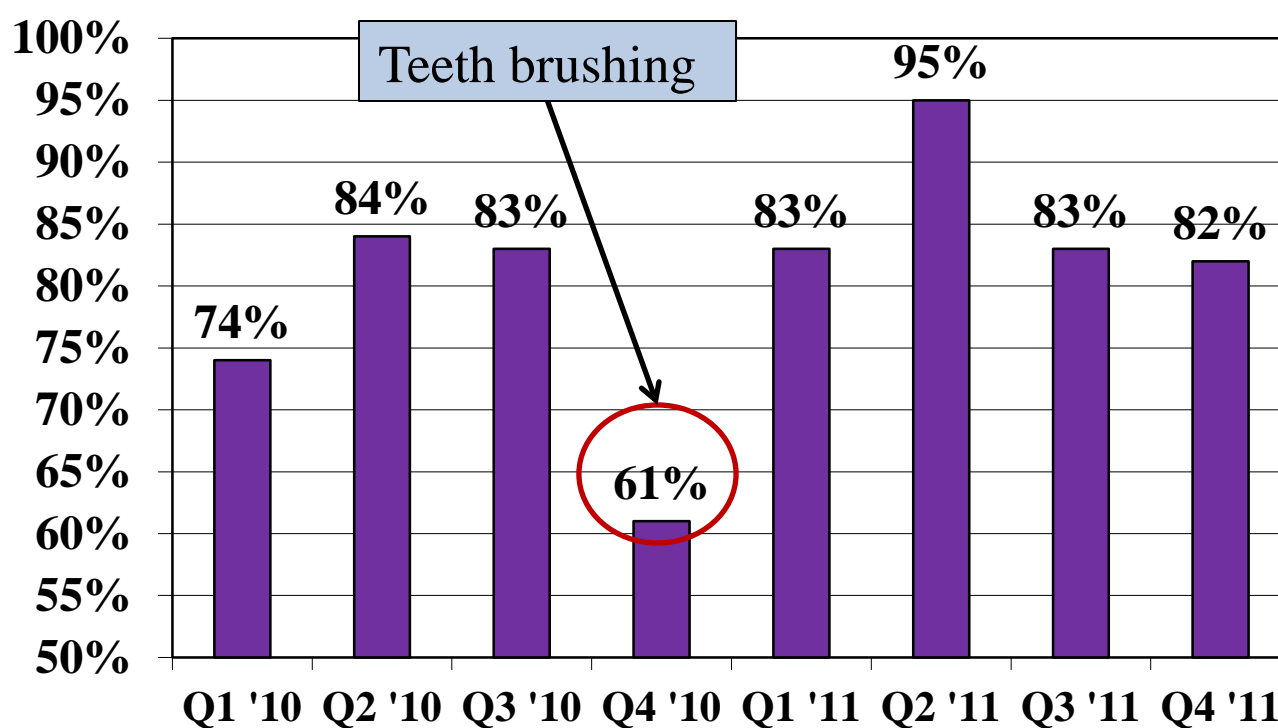
ICU Ventilator Associated Pneumonia CY 2007 - 2011

Vent Days Rate per 1000



VAP ICU Bundle Rate

by CY Quarter



■ VAP Bundle ICU

5 Components of the Bundle

*HOB >30

*DVT prophylaxis

*Sedation Vacation

*Gastritis Prophylaxis

*Oral Care

All components of the bundle must be followed or criteria is not met for bundle compliance.

VAPs 3 2 1 0



What Can Others Learn From Our Journey?

- Maintain focus! Don't let other initiatives compete
- Brush teeth/gums
- Invest in sub-glottic tubes
- Audit all aspects of the bundle **you** want to see improve
- Engage multidisciplinary staff to be compliant with bundle (RT, LNA's, RN, MD's)
- VAP reviews & discussion over every VAP that occurs



Next Tests of Change

- Continue to reinforce the bundle documentation- still not 100%
- Improve on sedation vacations
- Continue with real time feedback

Contact

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