

Compliance with IHI Initiative: VAP Bundle
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- **Category submission:** Evidence-based quality improvement.
- **Problem:** Implementation and compliance with the IHI ventilator associated pneumonia (VAP) Bundle may be related to ambiguity. Clearly defined ventilator bundle parameters and evaluation tools are essential to translate clinical practice into quality outcomes.
- **Evidence:** Accessing the IHI website revealed essential parameters for use in compliance with the initiative. Parameters include definition of VAP, goals for compliance, and data collection plan.
- **Strategy:** Independent VAP data collection was completed and analyzed to determine variability with IHI recommendations.
- **Practice change:** Utilized IHI “all or nothing” approach in evaluating compliance with the VAP Bundle. IHI recommends noting “compliance” only if all four bundle components are completed/documented on each patient, barring any contraindications to any individual component.
- **Evaluation:** Data was collected with an increased frequency on ventilated patients in the ICU using custom auditing tools to determine compliance with the bundle using medical chart review, patient observation, and staff discussion. Results were compared to IHI goals for compliance and with existing ongoing audits of internal compliance to identify points of variability.
- **Results:** IHI VAP goal for compliance is 95%. Average compliance rates reported by facility ten months were 95.1%. Independent review was found to be 27.8% (n=61). When compared to January 2007, overall compliance was 90% (n=60). Significant variability in compliance findings between CNS student and facility. Both results were below IHI recommended goal percentage.
- **Recommendations:** VAP team meetings to identify specific and reliable methods for data collecting that will result in congruence of results. Provide for further education across disciplines regarding importance of Ventilator Bundle, its components, and what determines compliance. Identify individual unit “champions” who are willing to collect compliance data. Educate the “champions” regarding method of collecting data so that results have better chance of maintaining congruence across units and between individuals.
- **Bibliography:**

Institute for Healthcare Improvement (IHI) (n.d). *Ventilator Bundle Compliance*. Retrieved February 21, 2007 from <http://www.ihl.org/IHI/Topics/CriticalCare/IntensiveCare/Measures/VentilatorBundleCompliance.htm>