

CARE BUNDLES FOR CRITICAL CARE

VENTILATOR ACQUIRED PNEUMONIA (VAP)

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A CARE BUNDLE IS

**“A systemic method of measuring and improving
clinical care processes”**

NHS Modernisation Agency

WHERE DID IT ALL START ?

**Developed in the u.s by Berenholzt and Pronovost.
To reduce the mortality and morbidity in
America's
ICU's**

**Berenholz et al. Journal of critical care
2002**

VENTILATOR ACQUIRED PNEUMONIA BUNDLE

A series of interventions that when implemented together will achieve significant better outcomes, such as,

- Reduced Mortality**
- Reduced Morbidity**
- Reduced Complications**
- Reduced Length of stay**
- Lower Cost**

**Berenholz et al
IHI.org**

KEY COMPONENTS

- **Head of bed elevated to 30 degrees**
 - **Peptic ulcer disease prophylaxis (PU)**
 - **Deep vein thrombosis prophylaxis (DVT)**
 - **Daily sedation hold**
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- **It is important that all key components are implemented to achieve maximum outcome.**

EXCLUSION CRITERIA

- **Head of bed elevation**
- Acute head injury.
- Suspected or actual spinal cord injury.
- Unstable pelvis.
- Severe respiratory instability.
- Acute abdominal conditions.

- **Peptic ulcer disease**
- Patients who are sensitive to H₂ Blockers.
- Patients who are sensitive to PPI'S (Protein pump inhibitors)

- **Deep vein thrombosis prophylaxis**

- Contra indications to heparin
- Coagulopathy, INR>1.5, APTTR >1.5, platelet <70.
- Active bleeding.
- 12 hours prior to and 6 hours following removal of epidural catheter.
- Patients receiving activated protein C.
- Subarachnoid haemorrhages.

- **Daily sedation Hold**

- Patients who are paralysed.
- Severe compromised gas exchange.
- Patients with raised intra-cranial pressure.

IMPLEMENTING THE BUNDLE

- **Exclusion criteria for the different elements of the bundles.**
- **Supportive information package to every bed space.**
- **Teaching to all staff prior to the launch of the bundle.**
- **Agreement from every consultant on the ICU and for it to be approved and signed off.**
- **Assimilation of audit tool.**
- **Data collection rotated between staff involved.**

COLLATION OF DATA

Ventilator Care Bundl

