Quality Bundles:

VAP Reduction Bundle

VAP REDUCTION BUNDLE

 HOB goal ≥ 30 degrees or as high as tolerated if intubated or a tracheostomy tube is in place, except during temporary procedures (e.g., bed changes, line insertion) unless contraindicated*

Continue to reposition frequently and balance HOB elevation with pressure injury prevention and sleep promotion. Bed should not be flat except for procedures.

Maintain appropriate level of sedation:

- ✓ Adjust sedation to target VAMAAS
- ✓ Q shift SWAP and attempt dose reduction of continuous sedatives unless contraindicated*

3. Daily SBT

- ✓ Screen daily for SBT readiness and document screen results
- √ If screen is passed, conduct SBT daily*

4. Subglottic Secretion Drainage (SSD)

- ✓ SSD for all patients with endotracheal tube
- ✓ If intubated without SSD, review during rounds re suitability for possible tube exchange

5. Initiate safe enteral feeding within 24-48 hours unless contraindicated*

- Attempt small bowel placement for all feeding tubes
- Avoid nasal placement for gastric drainage tubes; remove and replace orally within 48 hrs unless contraindicated (e.g., esophageal/oral surgery or varices)

6. Oral decontamination

- ✓ Oral hygiene with teethbrushing per CCTC procedure
- ✓ Chlorhexidine oral rinse Q12H (unless contraindicated*)

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^{*} See reverse for details

VAP Reduction Bundle Details

- **1. HOB Elevation:** Document HOB elevation in degrees in 24 Hour Flowsheet with each change in position.
 - HOB ≥ 30 degrees may be contraindicated or require modification in a number of situations, such
 as: unclear C-spines, open abdomen, hemodynamic instability, patient discomfort, skin
 breakdown, femoral lines, sleep disturbance or where alternate HOB elevation has been ordered.
 Patients should not be flat except for procedures.
 - Document HOB elevation in degrees. If HOB cannot be elevated, document the reason. For hemodynamic instability or patient discomfort, reassess Q 4H and position HOB at highest tolerated level.

2. Sedation Assessment and Weaning:

- a) Adjust analgesia and sedation to target VAMAAS and pain scores: Chart VAMAAS or MAAS in 24 Hour Flowsheet, recording the "typical" score for the preceding hour.
 - Q shift for all patients
 - Q 4H and prn for patients receiving continuous sedation
 - Chart the VAMAAS on the MAR to explain reason for PRN sedation.
 - Q shift, document a DAR note under the heading "comfort". Document overall assessment findings re pain, agitation, and delirium. Include treatments and response

b) Screen Q shift and prn for sedation weaning readiness:

- Screen for sedation weaning readiness Q shift using Sedation Weaning Assessment Tool (SWAP) unless deep sedation (VAMAAS 0) is the target (e.g., acute brain injury, hypothermia protocol, neuromuscular blockers, open abdomen, etc).
- If SWAP passed, initiate sedation weaning as per orders
- If SWAP failed, review sedation plans during rounds
- Document SWAP, weaning strategy and response

3. Contraindications to SBT (reasons for screening failure):

- Underlying reason for ventilation has not been resolved (e.g., cardiogenic shock, acute brain injury, hypothermia protocol)
- Use of deep sedation or paralytic agents (continuous or intermittent)
- Inability to initiate spontaneous effort
- Hemodynamic instability (including use of vasoactive infusions)
- PaO2/FiO2 ratio \leq 200 on > 0.5 FiO2 or PEEP > 8 or pH \leq 7.30 *
- · Medical order
- See SBT Screening:

http://www.lhsc.on.ca/Health_Professionals/CCTC/protocols/SBT.pdf

4. Contraindications to Subglottic Secretion Drainage (SSD):

 An SSD is not used if a patient requires a tube other than a standard endotracheal tube (e.g., blocker tube, armoured tube)

5. Initiate enteral feeding within 24-48 hours:

• Contraindications must be documented in clinical record. Bundle compliance is confirmed if a contraindication is documented, or if feeding is started within 48 hrs of an order to initiate enteral feeding in a patient with prior contraindications.

6. Oral decontamination with chlorhexidine and oral care with teeth/tongue brushing:

- Contraindications to teethbrushing includes adentulous or recent oral surgery. Document oral care in 24 Hour Flowsheet.
- Contraindications to Chlorhexidine include allergy or medical order (e.g., following recent oral surgery).
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