WVUHealthcare

# LOSS OF AIRWAY GUIDELINES

Tracheostomy tube accidentally comes

# out of trachea

# New tracheostomies (less than seven days since tracheostomy performed)

- · Patient becomes acutely hypoxic, increased pressure to ventilate, unable to detect
- CALL CODE. If in ICU, follow communication plan as outlined in "unplanned
- removal or loss of artificial airway communication tree" Call for help senior surgical residents, anesthesia, respiratory care, faculty Suction tracheostomy tube remember suction catheter can go down a significant distance into the mediastinum suggesting that you are in the trachea and breath distance into the mediastinum suggesting that you are in the trachea and breath sounds are usually normal. Remove air from ballcon Remove tracheostomy tube sutures – those tying tracheostomy tube to skin Remove tracheostomy tube Remove tracheostomy tube Hyperschend the patient's neck (unless cervical spine not clear) Administer oxygen to tracheostomy site Begin face mask ventilation using resuscitation bag. (Exception: total laryngectomy). Perform endotracheal tube intubation Begin acuiring equivalence the second second

- Begin acquiring equipment

  - Crash cart
  - Tracheotomy tube tray
     Tracheostomy and endotracheal tube
- Light
   Replace tracheostomy tube after help and equipment have arrived (this may be in the operating room)
   May need to place endotracheal tube into tracheostomy temporarily
   Mature tracheostomies may be able to replace. If any trouble, see below.

### Technique

- Preoxygenate with 100% for several minutes
   Extend the neck if the Cervical Spine is cleared
   Prepare new tracheostomy tube
   Check balloon
   Milk balloon back and remove all air
   Energy address in its racheostomy tube

  - Ensure obturator is in tracheostomy tube
- Ensure obturator is in tracheostomy tube
   Lubricate balloon with jelly
  Suction old tracheostomy tube with suction catheter
  Remove skin sutures that held old tracheostomy tube is till present
  Make sure labeled retention sutures are not crossed the retention sutures are used
  to open tracheotomy incision in case tracheostomy tube has slipped out do not
  pull hard on the sutures
  Place new tracheostomy tube through stoma and inflate balloon
  Remove obturator and place inner cannula
  Confirm breath sounds and oxygen saturation
  Secure in neutral position

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## Difficult tracheostomy tube change: If tracheostomy tube does NOT go in easily/well - STOP

- Do NOT forcefully or blindly insert tracheostomy tube into stoma Do NOT
   Appropr

Do NOT forcefully or blindly insert internectionly folds and a Call for help
 Deliver oxygen to tracheostomy opening
 Consider endotracheal intubation orally
 Consider passing endotracheal tube exchange catheter IF tracheotomy incision opening can be visualized
 Consider establishing airway using via use of bronchoscope

# Elective tracheostomy tube change, downsizing, and maintenance

# Criteria to downsize tracheostomy tube

- Mental status appropriate to protect airway
   Secretions less than every two hours
   No active pneumonia
   No aspiration of feedings
   Consider downsizing from 8 to 6 as soon as clinically appropriate.
   Consider using uncuffed tube when clinically indicated

- Seven days post placement

- Cut sutures
   Clean and change inner cannula
   Replace trach securement device
   Should not change tracheostomy tube before seven days unless emergency e.g.
   plugged, broken balloon, tube has slipped out, etc

# First tracheostomy tube change \*\* if problems of difficult airway expected consider location for trach change be ICU or OR

- First change should be performed by 14 days post placement
   There should be two persons present at the tracheostomy tube change, one of
  whom must be a MD.
   Who should do the first tracheostomy tube change

  - Faculty or Senior Resident/ fellow with Faculty readily available
     Senior resident/ fellow should have performed tracheostomy change with faculty before doing change by himself or teaching junior resident

# Personnel and equipment

- · Respiratory therapist and nurse (RN not LPN) by bedside

- Hespiratory therapist and nurse (HN not LPN) by bedside Trachectomy tray near bedside (or nearby) Rapid Sequence Intubation tray at bedside Replacement tracheostomy tube Smaller size tracheostomy tube by bedside e.g. if tracheostomy tube size is 8.0 then have size 6.0 by bedside Endotracheol tube, stylet, and intubation equipment by bedside – crash cart by door if on the floor intubation tray if is to [CI].
- intubation trav if in the ICU

- Inducation tray if in the ICO
   Tracheostomy tube obturator by bedside
   New Velcro tracheostomy tube tie by bedside
   Resuscitation bag by bedside
   Make sure there is adequate lighting
   Suction and suction catheter
   Scissors at bedside to remove skin sutures
   Oxygen source and continuous pulse oximetry

## Technique

- Preoxygenate with 100% for several minutes
   Extend the neck if the Cervical Spine is cleared
   Prepare new tracheostomy tube
   - Check balloon
   - Milk balloon back and remove all air
   - Ensure obturator is in tracheostomy tube
   - Lubricate balloon with jelly
   Surding old tracheostomy tube with surtion cett

- Lubricate balloon with jelly
   Suction old tracheostomy tube with suction catheter
   Remove skin sutures that held old tracheostomy tube if still present
   Make sure labeled retention sutures are not crossed the retention sutures are used
   to open tracheotomy incision in case tracheostomy tube has slipped out do not
   pull hard on the sutures
   Place new tracheostomy tube through stoma and inflate balloon
   Remove obturator and place inner cannula
   Confirm breath sounds and oxygen saturation
   Secure in neutral position

Difficult tracheostomy tube change: If tracheostomy tube does NOT go in easily/well - STOP

- 1. Reassess
   2. Do NOT forcefully or blindly insert tracheostomy tube into stoma
   3. Appropriate steps include:
   a. Call for help
   b. Deliver oxygen to tracheostomy opening
   c. Consider endotracheal intubation orally
   d. Consider passing endotracheal tube exchange catheter IF tracheotomy
   incicion opening can be visualized
   Consider establishing airway using via use of bronchoscope

Reviewed 1/18/17 Reviewed 2/28/2019