

# TRACHEOSTOMY **EMERGENCIES &** RESUSCITATION



# Lydia Sharon Saturi Msc.N,RN TRACHESOTOMY CNS St.James's Hospital

# **TRACHEOSTOMY**

 Incision made below the cricoid cartilage through the 2<sup>nd</sup> -4<sup>th</sup> tracheal ring. • There is still a connection from the nose or mouth to the lungs, so traditional airway manipulation will work.



## **KNOW WHY YOUR PATIENT HAS A TRACHEOSTOMY TUBE**

To maintain a patent airway and permit the removal of bronchotracheal secretions

#### Why the tracheostomy was performed? Whether the upper

airway is patent, partially or completely obstructed ?

How long the tracheostomy has been established?



# **EMERGENCY BEDSIDE EQUIPMENT** Appropriate SJH Tracheostomy Tray Contains necessary emergency equipment Functioning Suction Functioning Oxygen Spare inner cannula



# This patient has a 🕑 TRACHEOSTOMY 🕑 ntially patent upper airway (Intub Percutaneous / Surgical Difficult Airway 🗖 Prol ent 🗖 Tube type and size LOT NO nt Hospital No ENT Reg/ Max fax Reg via SWITCH or Anaestn Staff St. Johns Ward for su Emergency: ICU Reg: #666 Mon-Fri: Tracheostomy CNS: #538

# **IMPORTANCE OF BEDHEAD SIGN**

# <section-header><section-header><text><text><text><text>

- Once tube in situ more than one week the tract is usually well formed and will not close over straight away.
- If tube in situ less than 10 days a stay suture should be taped to patients chest. By pulling on this suture the trachea is brought forward and airway usually opened to facilitate tube replacement.



## • Call for help

- Inform ward staff to inform appropriate person: • Anaesthetist on call **# 666 or ext 6123** on site
- 24/7 ⊙ Mon-Fri 08.00-16.00 Tracheostomy nurse # 538
- Staff St Johns ward for support/ advice ext 2181
- ENT/ Max Fax Reg on call via Switch board
- While waiting for help to arrive.
- Reassure the patient, and reinsert new tracheostomy tube if competent to do so.

Open Trachy emergency tray at bedside, take out trachy dilator.





 Keep stoma open by gently inserting dilator. Ensure correct position metal parts should be north and south.



- Have trachy tube same size and a size smaller ready for the person to insert the new tube.
- (Use cotton ties to secure tube if patient confused)
- Have patient reviewed by medical person after event.
- Complete risk occurence form





#### Is the patient improving?

- Otheck the air flow from trachy using your arm
   I have a statement of the statem
- If remains occluded <u>Remove the tracheostomy</u> <u>tube:</u> except in ICU setting, apply AMBU bag and await until anaesthetic assistance.
- Reinsert new tracheostomy tube if competent to do so.
- If not-keep stoma open using tracheal dilator
- Administer oxygen and reassure patient until help arrives.

### RESPIRATORY / CARDIAC ARREST SITUATION

#### Call for help

- Basic Life Support Circulation, Airway, Breathing(30 compressions to 2 breaths)
- Lie patient flat and remove any clothing from the neck- check patency of the inner cannula
- Assess breathing
- Has the patient a cuffed tube insitu? Yes- ensure cuff is inflated(5-7mls air) No-change to cuffed tube it competent to do so.

Maximum ventilation and oxygenation occurs when there is a cuffed, non fenestrated tracheostomy tube insitu.



Make sure you see chest rise.
Give breaths via tracheostomy tube- attach catheter mount to the top of the tracheostomy tube (ideally cuffed), attach the Bag Valve Mask(BVM) to 15 L of oxygen.
Remove face from BVM and attach catheter mount.

# LARYNGECTOMY

- The surgical removal of the larynx, completely and permanently.
- Neck breathers
- There is NO
  - CONNECTION from the nose or mouth to the lungs, so traditional airway manipulation will not work.



# LARYNGECTOMY PATIENT

Not intubated orally or nasally

- Same steps as before BLS
- Mouth to stoma breathing/ paediatric face mask
- Insert cuffed, Non fenestrated tracheostomy tube





# DISCHARGE NEEDS OF THE TRACHEOSTOMY PATIENT

 Early discharge planning is essential for all patients going home with a tracheostomy or laryngectomy



# OVER BED SIGN FOR LARYNGECTOMY PATIENT







# **ORDERING EQUIPMENT**

- Social worker- Apply for medical card
- Tracheostomy Safety Facilitator/ Head & Neck Co-ordinator - tubes, suction equip, Neb machine humidification bibs etc.
- Speech and Language-PMV, electrolarynx or blom singer(if laryngectomy Patient)
- Dietician-if patient being tube fed/ increased calorie intake



# **EQUIPMENT NEEDED**

- Suction Machine(battery and mains)
   +/\_ Suction Tubing
- Correct size suction catheters
- +/- Nebulizer
- Humidifier( available from Argos and Boots)
- Correct mask
- Spare tracheostomy tubes, swedish nose, disposable inner cannulas, bibs, velcro ties etc



# **TEACHING**

#### PERSONS INVOLVED:

Primary the patient Caregiver Public Health nurse

- TOPICS:
- Cleaning (cooled boiled water used)
- Skin protection
- Handwashing and hygiene about the tube
- Suctioning
- Daily activities( swimming forbidden/ shower protection)

# EMERGENCIES

 Ensure patient and their families prepared should tube become dislodged... How??

### Action plan:

- Exact location in house where spare tracheostomy tube is kept.
- Resite immediately if patient/ family member competent to do so.
- Reviewed by medical person.
- If patient/ family member not competent to replace tube, patient must bring spare tube with them to their nearest A &E



## **FOLLOW - UP**

#### Hospital staff contact numbers

- Community contact numbers- appliance officer, PHN etc
- Olinic- monthly tube changes (EU guidelines)
   Olinic- monthly tube changes
   Olinic- monthly
   Olinic- monthly
- Speech Therapist
- Dietician



