

Ward: \_\_\_\_\_ Date: \_\_\_\_\_  
Ward: \_\_\_\_\_ Date: \_\_\_\_\_

**Addressograph**

**Tracheostomy Nursing Care Plan**

<p><b>Problem:</b> : _____ has a tracheostomy due to _____ (use in conjunction with the Tracheostomy guidelines and teaching plans – please refer to these for further information)</p>	<p>S/N Sig: _____ NMBI: _____</p>	<p>Date: _____ Planned by: _____ Grade: _____</p>	<p><b>Problem no:</b> <b>74</b></p>
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**Goals:**

- a) To ensure patent airway and prevent infection
- b) To educate the child & family and promote optimal lifestyle.

<p>1 Tube Type and Size:..... 2 Catheter Size:..... Depth:.....cms</p> <p><b>Nursing care:</b></p>	<p>Self / family care</p>	<p>Date/signature/grade/NMBI for any changes made to care</p>
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<p>a) Nurse patient in a high visibility area on the ward with immediate access to suction and O<sub>2</sub>.</p> <p>b) <b>Ensure bedspace is equipped with UNOPENED tracheostomy tubes x 2, one of which is the same make and size as patient's present tracheostomy tube and one shiley a half size smaller and a PREPARED emergency shiley tube with Velcro ties attached which is changed every 12 weeks and date should be highlighted on bag.</b></p> <p>c) Ensure *tracheostomy pack, *tracheal dilator only if patient &gt;10yrs, disposable sterile tracheal scissors packs (x 4 ), appropriately sized suction catheters, velcro ties (for emergency use only) and suction machine are in the room at all times.  <b>*(Tracheostomy pack required for all patients &lt; 4 weeks from time of insertion unless otherwise indicated).  *(Tracheal dilator only needed 1<sup>st</sup> week post insertion of tube and &gt;10yrs of age)</b></p> <p>d) Be familiar with patient's past and present respiratory status e.g. Broncho Pulmonary Dysplasia (BPD).</p>	<p>Parents will be educated regarding _____'s condition</p>	
<p><b>Suctioning</b></p> <ul style="list-style-type: none"> <li>a) Use clean technique (latex <b>free</b> gloves) during suctioning whilst the child is in hospital <b>(AARC, 2010)</b></li> <li>b) Suction as condition indicates (i.e. patient unable to clear own secretions; oxygen saturations decreasing less than 92% and change of colour e.g. cyanosis, pallor; increased work of breathing, intercostal recession</li> <li>c) Use appropriately sized catheter when suctioning (½ the internal diameter of the tracheostomy tube. <b>(Dougherty and Lister 2011, Wilson 2011) . Use gradient suction catheters.</b></li> <li>d) Ensure suction pressure is no greater <b>60-80mmHg &lt;4 weeks, 80-100mmHg 4 weeks up to 3 years, 100-120mmHg &gt;3 years</b> when suctioning.(Hockenberry &amp; Wilson 2011, Barron and Hollywood 2010)</li> <li>e) Remove visible secretions from the tube and around area i.e. coated tube. Suction for no longer than 5 seconds and <u>apply suction on withdrawal of suction catheter only.</u> (AARC Guidelines 2010)</li> </ul>	<p>Parents will be educated in suctioning and tracheostomy care</p>	



**Tracheostomy Nursing Care Plan Continued**

Nursing care:	Self / family care	Date/signature/grade/NMBI for any changes made to care
<p>d) Record change of ties and any changes to stoma site on <i>Tracheostomy Tube Change Record Sheet</i>.</p> <p><b>Tracheostomy Tube Changing - Elective</b></p> <p>a) Change tracheostomy tube <b>weekly if a Shiley tube</b> or more frequently if clinically indicated – refer to tube change flow sheet. A <b>Bivona tube may be changed every 28-30 days Shiley and bivona tubes are single use.</b></p> <p>b) <b>NB Bivona tubes cannot be used for any child who requires an MRI – a Shiley tube should be inserted specifically for that investigation.</b></p> <p>c) Ensure oxygen and suction are close at hand and are switched on at time of tube change.</p> <p>d) Use the same tube size.</p> <p>e) Ensure that there are two staff members (one must be a staff nurse) present during the tube change.</p> <p>f) Carry out tube change prior to feeding (reduces the risk of vomiting).</p> <p>g) Prepare equipment i.e. Tube, ties, oxygen, suction, rolled towel for behind the neck.</p> <p>h) <b>Responsibilities</b>  <b>Changer</b> – stands beside oxygen and suction  <b>Assistant</b> – holds tube in position using a <b>C shape</b> with thumb and index finger  <b>Changer</b> – cuts ties with sterile scissors and <b>assistant</b> removes old tube on the count of 3.  <b>Changer</b> - inserts the new tube in a C shape manoeuvre and removes the introducer as soon as new tube is in place.  <b>Changer</b> – holds new tube in position  <b>Assistant</b> – cleanses the neck and stoma, ties the tie using 3 knots (refer to template at bedside) the ties and <b>ensuring one finger breadth between the ties and the patient’s neck at the back.</b> During tube change, observe stoma for signs of infection, record and report findings.</p> <p>i) Be aware of indications for emergency tube change –increased work of breathing, stridor, audible sounds, cyanosis, inability to pass suction catheter.</p> <p>j) <b>Emergency Tube change:</b> (REFER TO EMERGENCY PAEDIATRIC MANAGEMENT ALGORITHM (SEPT. 2014))</p> <p>k) Remove fresh tracheostomy tube from package/prepared emergency tube in emergency bag.</p> <p>l) Insert tracheostomy tube.</p> <p>m) Secure with velcro ties</p> <p>n) When patient’s condition has stabilised change <b>velcro</b> ties to Marpac <b>cotton</b> ties unless otherwise indicated.</p> <p><b>Feeding</b></p>	<p>Parents will report observations on sputum/tolerance of suctioning</p> <p>Parents will be educated on tube changes</p>	

**Tracheostomy Nursing Care Plan Continued**

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<p>a) <b>Involve the speech and language team.</b></p> <p>b) Protect the tracheostomy tube with humidified moisture exchanger to minimise risk of food entry.</p> <p>c) Allow time for feeding, giving small amounts and wind an infant regularly. Do not use plastic backed feeding bibs as these may occlude the tube.</p> <p>d) Stay with and monitor the child during feeding.</p> <p>e) Assist and supervise the parents until they are confident with feeding.</p> <p><b>Communication</b></p> <p>a) Involve the speech and language team. Use speaking valve if appropriate.</p> <p>b) Refer to Passy Muir Valve care plan.</p> <p><b>Education</b></p> <p>a) Continue on-going education and support for parents.</p> <p>b) Begin discharge planning in conjunction with the parents and the ENT team(<b>refer to the Discharge process for a child with a tracheostomy</b>)</p> <p>c) <b>USE THE RELEVANT TRACHEOSTOMY TEACHING PLANS TO ENSURE ALL EDUCATION IS COMPLETED</b></p> <p>d) <b>NB:</b> Arrange C.P.R education for parents.: Date provided: _____</p> <p>e) When parents are deemed competent (date _____) commence gradual discharge process if circumstances allow in conjunction with the ENT team.</p> <p><b>REFERENCES</b></p> <p>AARC (2010) Clinical practice guideline Endotracheal suctioning of mechanically ventilated adults and children with artificial airways. <i>Respiratory Care</i>. 55(6) 758-764.</p> <p>Barron C, Hollywood E. (2010) Drug administration In <i>Clinical skills in Children’s Nursing</i> (Coyne I, Neill F, Timmins F, Eds.) Oxford University Press, Oxford 147- 181</p> <p>Campisi P. and Forte V. (2016) Paediatric Tracheostomy Seminars in <i>Pediatric Surgery</i>, Vol 25, 191-195.</p> <p>Cooke J et al. (2015) Improving Safety in Paediatric Tracheostomy Management using the TRACHE Care Bundle <i>JAMA</i>. (Pending publication)</p> <p>Dougherty L and Lister S (2011) <i>Respiratory Care</i>. In <i>The Royal Marsden Hospital Manual of Clinical Nursing Procedures</i>. 8th edn. (Dougherty L &amp; Lister S Eds) Wiley-Blackwell, Oxford, 533-614.</p> <p>Hockenberry MJ and Wilson D (2011) <i>Wong’s Nursing Care of Infants and Children</i>, 9th edn. Mosby, St. Louis.</p> <p>Macqueen S, Bruce EA &amp; Gibson F. (2012) Tracheostomy: care and management. In <i>Great Ormonde Street Hospital Manual of Children’s nursing Practices</i>. Wiley- Blackwell, Oxford, 693-694.</p> <p>MacQueen S. Bruce EA and Gibson F (2012) Tracheostomy: Care and Management in Great Ormonde Street</p>	<p>Parents will assist with feeding</p> <p>Parents are aware of entitlements</p> <p>Parents have written, verbal and practical information available to them</p> <p>Parents will be educated on cleaning and observation of stoma site</p>	

Tracheostomy Nursing Care Plan Continued		
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<p>Hospital. 693-717</p> <p>Davies K, Monterosso, L. Bulsara, M. and Ramelet, A.S. (2015) Clinical Indicators for the initiation of endotracheal suctioning in children: An Integrative review. <i>Australian Critical Care</i> 28(1) 11-18.</p> <p>McGrath B (2014) <i>Comprehensive Tracheostomy Care: The National Tracheostomy Safety Project Manual</i> (Advanced Life Support Group). (Chapter 9 p85-110). Wiley Blackwell. West Sussex.</p> <p>National Tracheostomy Safety Project Paediatric emergency algorithms. Accessed via <a href="http://www.tracheostomy.org.uk/Templates/NTSP-Paeds.html">http://www.tracheostomy.org.uk/Templates/NTSP-Paeds.html</a></p> <p>Price, T. (2006) Surgical Tracheostomy. In Russell C. and Matta B. (Eds.) <i>Tracheostomy: A Multiprofessional Handbook</i>. Cambridge University Press, Cambridge.</p> <p>Russell C. (2005) Providing the nurse with a guide to tracheostomy care and management. <i>British Journal of Nursing</i> 14(8), 428 – 433.</p> <p>Walsh B, Hood K Merritt G (2011) Paediatric airway maintenance and clearance in the acute setting; How to stay out of trouble, <i>Respir Care</i>. 56(9): 1424-1444.</p> <p>Wilson, M.(2005) Paediatric Tracheostomy Management, <i>Paediatric Nursing</i>. 17, 3, 38-44.</p>		