

PLANNED TRACHEOSTOMY DECANNULATION PROCEDURE

Staff this document applies to:

Medical Staff, Nurses, Speech Pathologists, Physiotherapists on all campuses

Who is authorised to perform this procedure?:

Medical Staff, Nurses and Physiotherapists trained in decannulation

State any related policies, procedures or guidelines:

Tracheostomy policy – [Management of patients with a Tracheostomy](#)

Tracheostomy procedure - [Mandatory Tracheostomy Equipment](#)

Tracheostomy procedure - [Suctioning via the Tracheostomy](#)

Tracheostomy procedure - [Tracheostomy Cuff Management](#)

Tracheostomy Decannulation Documentation (SMR Form M79.30)

Tracheostomy ICU Discharge Form (SMR Form M79.3)

Tracheostomy e-learning package – [Tracheostomy decannulation](#)

[Escalation Response to Clinical Deterioration - Austin Hospital](#)

Definition:

The safe and timely removal of a tracheostomy tube when it is no longer medically indicated

Clinical Alert:

- Prior to decannulation, a clearly documented plan (Decannulation documentation M79.30) is required including actions in event of acute deterioration.
- If a patient experiences stridor or respiratory distress post decannulation, a Code Blue response should be activated.
- A percutaneous dilatational stoma may close quickly after decannulation which may make tracheostomy tube reinsertion more difficult if required
- The initial 48 hours post decannulation is critical and the patient must be monitored closely by the parent medical team and nursing staff.
- If specified on the ICU Tracheostomy Discharge Form (SMR Form M79.3), ICU should be notified prior to decannulation.
- Notify parent medical unit, nurse in charge, bedside nurse, treating physiotherapist and speech pathologists
- Ideally, tracheostomy tubes should be removed Monday-Thursday, during daytime working hours, and preferably in the morning to enable increased observation.
- If decannulation is to occur on a Friday, the patient will be reviewed by the Respiratory Registrar (or unit responsible for decision to decannulate) on Saturday for their 24hr review.

Expected Outcome:

- Pre and post decannulation entry is completed. (Decannulation documentation M79.30). This entry includes the action plan in the event of failed decannulation as per direction by the parent unit.
- The tracheostomy is decannulated and patient monitored.

Equipment:

- [Mandatory tracheostomy equipment](#)
- Mouth or nose -Oxygen delivery system
- Pulse oximeter
- Dressing pack, normal saline and stitch cutter (if sutures in situ)
- Occlusive dressing

Procedure:

- Prior to decannulation complete the pre-decannulation entry Decannulation documentation (M79.30)
- Identify the patient
- Explain the procedure to the patient and obtain consent
- Check all mandatory equipment is at hand
- This is a 2 person procedure. Ideally, the bedside nurse should be present during the decannulation.
- Pause enteral feeding
- Debug and don personal protective equipment
- Set up dressing pack with n/saline and occlusive dressing
- Connect pulse oximetry and pre oxygenate if required
- Position the patient comfortably lying in bed with neck in neutral or slight extension
- Deflate the cuff and suction if indicated
- Remove the tracheostomy dressing
- Remove tracheostomy sutures if present
- Undo the velcro tapes or ties
- Ask the patient to take a deep breath, and gently withdraw the tube on exhalation
- Occlude stoma and check that the patient is able to breathe comfortably
 - **If a ward based patient experiences respiratory distress and/or stridor call a Code Blue**
 - **Reinsert new tracheostomy tube if trained to do so**
 - **Check the patient's oxygen saturation and apply oxygen to the mouth/nose (or the tracheostomy stoma if the upper airway appears to be obstructed)**
- Clean the stoma with saline
- Inspect the stoma for bleeding, infection or granulation tissue.
- Apply occlusive dressing

- Ensure the patient is comfortable and observations stable
- Leave the patient with a nurse call bell within reach
- Advise patient to apply firm pressure over the stoma dressing during speech or coughing to prevent leak

Post Procedure Care:

- Ensure tracheostomy decannulation - documentation 'Post decannulation entry' is complete
- Perform half hourly observations for 2 hours.
- If concerned follow ePPIC guideline: [Escalation Response to Clinical Deterioration - Austin Hospital](#)
- For non urgent enquiries contact treating unit responsible for decannulation /TRAMS with any concerns 8:30-17:00 Monday to Friday.

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TRAMS Policy and Procedure Committee (Updated May 2017)

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References:

Agency for Clinical Innovation (2013), Care of Adult Patients in Acute Care Facilities with a Tracheostomy: Clinical Practice Guideline

https://www.aci.health.nsw.gov.au/_data/assets/pdf_file/0005/181454/ACI_Tracheostomy_CPG.pdf

Antonello, N., Gracia, PIM & Paolo, B (2015) Tracheostomy Decannulation. *Phys Med Rehabil Int.* 2 (6) 1053

Engels, P. T., Bagshaw, S. M., Meier, M., & Brindley, P. G. (2009). Tracheostomy: from insertion to decannulation. *Canadian Journal of Surgery*, 52(5), 427.

Intensive Care Society Standards. Standards for the care of adult patients with a temporary tracheostomy (2014)

[http://www.ics.ac.uk/AsiCommon/Controls/BSA/Downloader.aspx?iDocumentStorageKey=5b70a7af-c79c-4e49-bca1-648b98c06598&iFileTypeCode=PDF&iFileName=ICS%20Tracheostomy%20Standards%20\(2014\)](http://www.ics.ac.uk/AsiCommon/Controls/BSA/Downloader.aspx?iDocumentStorageKey=5b70a7af-c79c-4e49-bca1-648b98c06598&iFileTypeCode=PDF&iFileName=ICS%20Tracheostomy%20Standards%20(2014))

McGrath B.A. & Thomas A.N. Patient safety incidents associated with tracheostomies occurring in hospital wards: a review of reports to the UK National Patient Safety Agency. *Postgrad Med J* 2010; 86: 522–525.

McGrath, B. (Ed.). (2014). *Comprehensive tracheostomy care: the national tracheostomy safety project manual*. John Wiley & Sons.

McKim, D. A., Hendin, A., LeBlanc, C., King, J., Brown, C. R., & Woolnough, A. (2012). Tracheostomy decannulation and cough peak flows in patients with neuromuscular weakness. *American Journal of Physical Medicine & Rehabilitation*, 91(8), 666-670.

Mitchell, R. B., Hussey, H. M., Setzen, G., Jacobs, I. N., Nussenbaum, B., Dawson, C., ... & Merati, A. (2013). Clinical consensus statement: tracheostomy care. *Otolaryngology--Head and Neck Surgery*, 148(1), 6-20.

Morris, L., & Afifi, M. S. (2010). *Tracheostomies: the complete guide*. Springer Publishing Company.

O'Connor, H. H., & White, A. C. (2010). Tracheostomy decannulation. *Respiratory Care*, 55(8), 1076-1081.

Pandian V., Miller C.R., Mirski M.A., *et al.* (2012) Multidisciplinary Team Approach in the Management of Tracheostomy Patients. *Otolaryngology - Head and Neck Surgery* **147**, 684–691.

Warnecke, T., Suntrup, S., Teismann, I. K., Hamacher, C., Oelenberg, S., & Dziewas, R. (2013). Standardized endoscopic swallowing evaluation for tracheostomy decannulation in critically ill neurologic patients. *Critical care medicine*, 41(7), 1728-1732.

Wilkinson, K. A., Freeth, H., & Martin, I. C. (2015). Are we 'on the right trach?' The National Confidential Enquiry into Patient Outcome and Death examines tracheostomy care. *The Journal of Laryngology & Otology*, 129(03), 212-216.

Department Responsible for Document:

Tracheostomy Review and Management Service (TRAMS)