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# **Acacium Group**

# **Laryngectomy Care General**

# **Guidelines**

**Procedure Reference | SOP VENT 23**

**Version | V4.1**

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| <b>Procedure Name</b>                        | Laryngectomy Care General Guidelines   |
| <b>Purpose of Document</b>                   | To ensure that the correct preparation, procedure & outcome are achieved by implementing a consistent and systematic approach to Laryngectomy Care   |
| <b>Target Audience</b>                       | All Nurses & appropriately trained carers  |
| <b>Version</b>                               | V4.1   |
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| <b>Next Review Date</b>                      | June 2026  |
| <b>Equality Impact Assessment (EIA) Form</b> | Acacium Group is committed to Equality, Diversity and Inclusion and in line with our values, we strive to ensure that everyone that is part of the Acacium community is not disadvantaged or discriminated against given their individual need or characteristics. To support this, an Equality Impact Assessment has been undertaken on this policy/procedure. This information is held centrally and can be requested from the Clinical Governance Team. |
| <b>About Acacium Group</b>                   | Details of all Acacium Group trading companies that this policy applies to are detailed within Appendix A  |

| Document History |           |   |                         |
|------------------|-----------|---|-------------------------|
| Version          | Date      | Changes made/comments                                       | By whom                 |
| V1               | Dec 2016  | Implementation of document history page                     | KNF/VM                  |
| V1.1             | Aug 2018  | Annual review with updated emergency laryngectomy algorithm | KMS/SJ                  |
| V1.2             | Mar 2020  | Update to new Community template                            | CCR/CC                  |
| V2               | July 2020 | 2 Yearly Review   | Clinical Advisory Group |
| V2.1             | Oct 2020  | Updated re rebrand  | CC                      |
| V3               | Jul 2022  | 2 Yearly Review   | Clinical Advisory Group |
| V4               | Jan 2024  | Rebrand   | Clinical Advisory Group |
| V4.1             | Jun 2024  | Reviewed and no update needed. Review date extended         | Clinical Advisory Group |
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## 1. Introduction

A laryngectomy is the complete surgical removal of the larynx (voice box) which disconnects the upper airway (nose and mouth) from the lungs. The trachea is transected (cut) and then the open end is stitched onto the front of the neck. This is an irreversible operation and once it has been performed, the Client will never be able to breathe, be oxygenated or ventilated through the upper airway again.

The table below demonstrates the differences between a laryngectomy and a tracheostomy.

| Laryngectomy  | Tracheostomy  |
|---|---|
| Larynx removed  | Larynx still intact and functioning   |
| Permanent, non – reversible                                 | Can be temporary or permanent and is reversible                                       |
| The upper airway is now disconnected from the lower airways | The upper and lower airways remain connected (unless clinical reasons mean otherwise) |
| Doesn't always require a tube to keep it open               | Must always have a tube in to keep site open  |

The SOP links to Acacium Group policy on assisted ventilation and should be followed by all Acacium Group staff.

Competence against the policy and SOP will be assessed and reviewed on a regular basis.

A Client with a laryngectomy, by-passes the normal functions of the nose and mouth and therefore is at an increased risk of infection.

## 2. General

A laryngectomy may be performed for the following reasons:

- For cancer of the larynx
- To manage chronic aspiration of gastro-intestinal contents
- For airway protection in the case of life-threatening chronic aspiration and airway compromise or trauma.

There are associated complications post laryngectomy, this can either be immediate or in the future:

- Immediate complications post operatively:
- Risk of blockage of the trachea with blood and secretions
- Loss of normal warming and humidification in the upper airways
- Formation of a fistula
- Wound breakdown
- Infection
- Haemorrhage

Potential future complications:

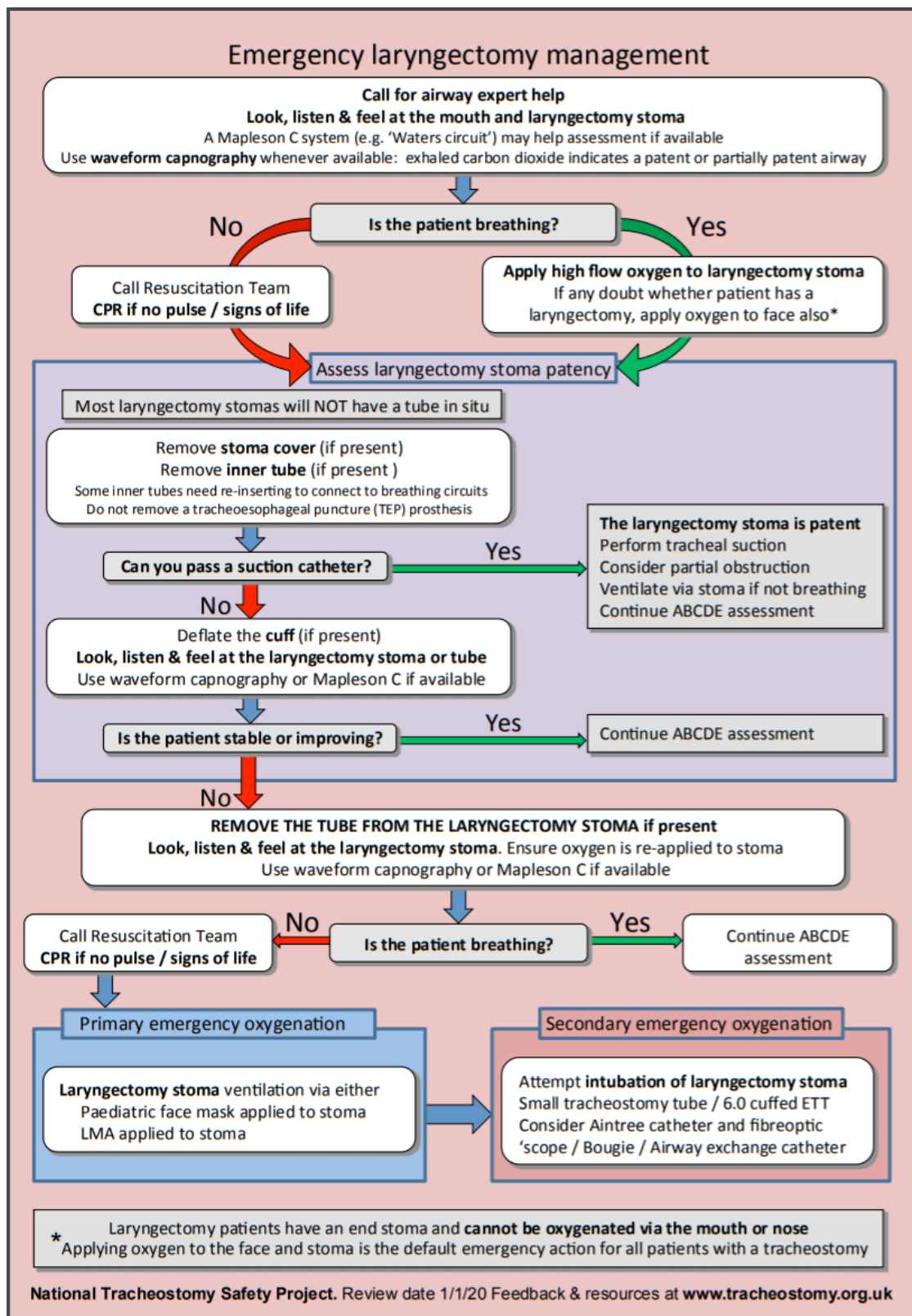
- Risk of blockage of the trachea with secretions
- Infection – pulmonary and/or stoma
- Tracheal instability
- Ulceration of the trachea
- Development of a fistula
- Stoma stenosis
- Ulceration of neck from ties/tapes being too tight.

### 3. Emergency Equipment

It is imperative that a Client has emergency equipment to hand in case of an airway emergency, these will be Client specific but would generally contain:

- Oxygen (if required)
- Ambu-bag and tracheostomy mask
- 2 laryngectomy tubes and or smaller tracheostomy tube if applicable and detailed in the care plan
- Tapes
- Gauze
- 10ml syringe
- Tracheal dilators
- Aqua gel
- Suction
- Spare foley catheter with spigot
- Sterile water (if required)
- Appropriate PPE as per current Guidelines

If a laryngectomy client becomes unwell, standard resuscitation procedures that involve delivering oxygen via face-masks will not be effective. The National Tracheostomy Safety Project have designed specific laryngectomy algorithms and resources to help identify neck-breathing patients and to guide responders appropriately in case of emergencies:



## 4. Laryngectomy tubes




Most Clients will not have laryngectomy tubes, however if they do there are a few different tubes including:

- Dual Cannula
- Fenestrated
- Single Cannula



## 5. Humidification

Following a laryngectomy, the air that client's breathe is no longer warmed, humidified and filtered by the nasal passages as they now breathe directly in and out of the stoma. Drying of the airway results in thickened airway secretions which can cause the Client problems in maintaining a patent airway. There are several methods of humidifying laryngectomies:

|   |  |
|---|--|
| A laryngectomy stoma cover (captures heat and moisture from expired air)    |  |
| Laryngectomy bib (Buchanan Bib captures heat and moisture from expired air) |  |
| HME's on a laryngectomy tube  |  |

## 6. Suctioning

It is important to remember that most Clients with a laryngectomy are able to cough and clear their own secretions. Suctioning should not happen routinely or at set times, it is important that the Client is assessed prior to suctioning, and that the Client is encouraged to cough and clear their own secretions unless indicated



otherwise in their care plan. There are a range of factors that suggest a Client may require suctioning, these include:

- Noisy breathing
- Increased effort or work of breathing
- Increased or decreased respiration rate, heart rate
- Reduced oxygen saturations
- Restlessness, changes to skin colour and sweating
- Increased or ineffective coughing
- Client request

## 7. Cleaning the laryngectomy tube

|     | Action   | Rationale   |
|-----|--|---|
| 1.  | Gain Consent, prepare the Client and explain the procedure                       | To ensure you obtain confirmed consent in line with legal requirements  |
| 2.  | Wash your hands and set up equipment   | To maintain infection control   |
| 3.  | Apply PPE in line with current guidelines  | To reduce the risk of cross infection   |
| 4.  | Remove laryngectomy tube (replace with new tube immediately if required)         | To enable cleaning of the tube. Replace with new tube if Client cannot maintain airway without it – please check Client's care plan |
| 5.  | Cleanse the outside of tube with gauze to remove all residual visible secretions | To ensure that the tube is clean  |
| 6.  | Pour sterile saline into bowl and submerge tube                                  | To clean the tube and ensure all secretions are removed.  |
| 7.  | Clean through the tube with sponges or brush                                     | To ensure all the secretions are removed and the tube is visibly clean  |
| 8.  | Rinse off with saline  | To wash off any secretions that are left.   |
| 9.  | Check the tube for any signs of perishing or splits                              | Check that the tube is patent. If perished discard.   |
| 10. | Dry tube thoroughly inside with clean dry pink sponge and the outside with gauze | To ensure that the tube is clean and dry, therefore reducing the risk of infection.   |
| 11. | Store spare tube in sealed pot (or replace as required)                          | To keep the tube clean and dry, therefore reducing the risk of infection.   |
| 12. | Remove PPE and wash your hands.  | <b>To maintain infection control</b>  |
| 13. | Discard all waste into the appropriate waste bag and dispose of waste bag        | <b>To maintain infection control and discard clinical waste in the appropriate manner.</b>  |
| 14. | Document the procedure in the Client's notes                                     | <b>To maintain effective documentation of care given to the Client.</b>   |

## 8. Changing the laryngectomy tube

|    | Action   | Rationale  |
|----|--|--|
| 1. | Gain consent and prepare the Client and explain what you are going to do | To ensure you obtain confirmed consent in line with legal requirements               |
| 2. | Wash your hands and set up the equipment                                 | To maintain infection control.   |
| 3. | Sit the Client up  | To maintain the Client's airway  |
| 4. | Apply PPE in line with current guidelines                                | To reduce the risk of cross infection  |
| 5. | Perform superficial stoma suction if necessary                           | To ensure that the Client's secretions are removed to reduce the risk of aspiration. |
| 6. | Loosen the neck ties   | To enable the removal of the laryngectomy tube.                                      |

|     |   |   |
|-----|---|---|
| 7.  | Gently remove the laryngectomy tube with suction on standby               | To be able to clean the laryngectomy tube.  |
| 8.  | Replace the tube using aqua-gel as required for ease of insertion         | To maintain patency of the Client's airway.   |
| 9.  | Re-attach the neck ties   | To secure the laryngectomy.   |
| 10. | Remove PPE and wash your hands.   | To maintain infection control   |
| 11. | Discard all waste into the appropriate waste bag and dispose of waste bag | To maintain infection control and discard clinical waste in the appropriate manner. |
| 12. | Document the procedure in the Client's notes                              | To maintain effective documentation of care given to the Client.                    |

## 9. Assessment

It is imperative that a Client with a laryngectomy is frequently assessed; with the aim of identifying and rectifying actual or potential problems to assist in preventing further deterioration. Observations should identify:

- Respiratory distress including shortness of breath, stridor (noise on inspiration) wheeze (noise on expiration), changes in pallor, sweating, use of accessory muscles cyanosis
- Increased or decreased respiratory rate
- Deterioration in oxygenation
- Increase oxygen demand
- Change in the level of consciousness
- Difficulty removing secretions either by suctioning or expectoration
- Increase use of nebulisers
- Ongoing concern or unresolved issues relating to the airway
- Hydration: If the Client is dehydrated this can have a significant impact on the thickness of their secretions, the more dehydrated the Client is the increased thickness of secretions

## 10. Emergency situations

It is imperative to remember that once a Client has had a laryngectomy, they are unable to use their upper airways, therefore their stoma is vital for sustaining life. When completing basic life support, any rescue breathes must be delivered directly through the stoma, either by using a paediatric mask attached to an ambu-bag over the stoma site or by mouth to stoma when no mask available.

**Appendix B is the national standard algorithm which should be followed in emergency situations.**

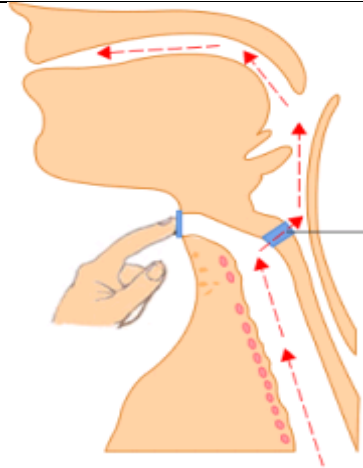
## 11. Speaking Devices

Once a Client has had a laryngectomy, they are unable to properly speak, there are several speaking devices on the market, these will be chosen/funded by the CCG/Client.

An '**electolarynx**' which vibrates the neck externally, oesophageal speech ('burping' swallowed air)



Tracheo-o Esophageal Puncture (TEP) valve allows expired gas to be forced into the oesophagus, facilitating speech.



## 12. Problem solving

Any concerns or problems should be escalated to RCL or Out of hours when safe and appropriate to do so.

| Problem                                    | Cause                                 | Suggested action  |
|--|---------------------------------------|---|
| Profuse tracheal secretions.               | Local reaction to tracheostomy tube   | Suction frequently e.g. every 1-2 hours   |
| Lumen of laryngectomy tube occluded.       | Tenacious mucus in tube.              | Change the inner tube. Use 0.9% sodium chloride nebulisers, heat and moisture exchangers and suction. Continue to change the inner tube regularly.  |
| Lumen of laryngectomy tube occluded cont.: | Dried blood and/or mucus in the tube. | Provide humidified air.   |
| Laryngectomy tube dislodged accidentally.  | Tapes not secured adequately.         | Locate the Emergency laryngectomy box (the contents should be checked at the beginning of every shift)<br>Re-insert the appropriate size laryngectomy tube (see Clients care plan) and secure with tapes or ties as appropriate.<br>NB: Tracheal dilators should be available to FOR ADULTS ONLY if |

|   |   |   |
|---|---|---|
|   |   | documented in the care plan and only used if trained and competent.   |
| Unable to insert clean laryngectomy tube.                 | Unpredicted shape or angle of stoma.  | Remain calm as an outward appearance of distress may cause the Client to panic and lose confidence. Call for help/dial 999. Attempt to insert the smaller laryngectomy tube. If this is impossible, keep the laryngectomy tract open using tracheal dilators (if documented in the care plan) Ventilated via the stoma site if required – Remember NO upper airway present to ventilated through. |
| Tracheal stenosis   | Tracheal stenosis due to Client coughing, Client being very anxious or because the tube has been left out too long.   | Insert a smaller size tracheostomy tube. If insertion proves difficult, keep the stoma open and patent with tracheal dilators (ADULTS ONLY if documented in the care plan and you are trained and competent to do so) and call 999.   |
| Tracheal bleeding following or during change of the tube. | Trauma due to suction or the tube being changed. Presence of tumour. Granulation tissue forming in fenestration tube. | Change the tube as planned if bleeding is minimal. Perform tracheal suction. Check observations and arrange to call for assistance or call 999 if health appears to be deteriorating.   |
| Infected sputum.  | Condition of Client often predisposes Client to infection.  | Encourage the Client to cough up secretions and/or suction regularly. Change the tube as required. Clean the stoma area frequently, e.g. 4-6 hours, with sterile water/saline and gauze and document. Report concerns with Client's GP. Escalate to on call/RCL as needed. Consider contacting 999 if clinically unstable   |

### 13. Consent

Always obtain consent for any procedure to be undertaken. Should there be an absolute emergency, it is possible for carers to make decisions in the best interest of the Client as long as these are clearly identified and documented and there are no advance decisions that dictate otherwise.

### 14. Associated Policies / SOPs

#### Policies

CLIN 02 Assisted Ventilation Policy  
CLIN 07 Infection Prevention Policy  
ORG 03 Health and Safety Policy  
CLIN 06 Consent Policy

|  |                        |              |               |
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| Document title: SOP VENT 23 Laryngectomy Care General Guidelines |                        |              |               |
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CLIN 14 Health Records Management Policy  
CLIN 12 Safe Use of Medical Devices Policy

### SOPs

SOP VENT 01 Tracheostomy Dressing Change (Adult & Child)  
SOP VENT 02 Tracheostomy Care General Guidelines  
SOP VENT 03 Humidification of a Client's Tracheostomy  
SOP VENT 04 Tracheal Suctioning (Adult & Child)  
SOP VENT 05 Tracheostomy Tube Care (Adult)  
SOP VENT 06 Tracheostomy Tube Change (Adult)  
SOP VENT 07 Tracheostomy Tube Change (Child)  
SOP VENT 08 Administration of a Nebuliser through a Ventilator Circuit  
SOP VENT 09 Assembling a Ventilator Circuit  
SOP VENT 10 Cleaning the Ventilator Equipment  
SOP VENT 11 Safe Management of a Ventilated Client During Outings  
SOP VENT 12 Safe Management of a Ventilated Client During Power Cuts  
SOP VENT 13 Safe Use of Battery Packs  
SOP VENT 14 Assisted Airway Maintenance and Cough (Adult)  
SOP VENT 15 BiPAP  
SOP VENT 16 Oral and Nasal Suctioning  
SOP VENT 18 CPAP  
SOP VENT 19 Mechanical Cough Assist  
SOP VENT 20 Changing Tracheostomy Cotton Ties (Child)  
SOP VENT 21 Changing Tracheostomy Velcro Tapes (Child)  
SOP VENT 22 Phrenic Nerve Pacing  
SOP VENT 24 Emergency Tracheostomy Tube Change (Adult)  
SOP VENT 25 Emergency Tracheostomy Tube Change (Child)  
SOP VENT 26 Nasopharyngeal Airway Management (Adult & Child)  
SOP VENT 27 Nebuliser Therapy

## 15. References

- The Royal Marsden Hospital Manual of Clinical Nursing Procedures, Seventh edition, Dougherty L & Lister S, 2009, Wiley-Blackwell
- National Tracheostomy Safety Project (NTSP) [www.tracheostomy.org.uk](http://www.tracheostomy.org.uk)
- National Patient Safety Agency (2005) Patient safety Information 02. Protecting patients who are neck breathers.
- Emergency Algorithm Laryngectomy  
[https://www.tracheostomy.org.uk/storage/files/NTSP\\_RED\\_Laryngectomy\\_Algorithm.pdf](https://www.tracheostomy.org.uk/storage/files/NTSP_RED_Laryngectomy_Algorithm.pdf)

## Appendix A: About Acacium Group

Acacium Group consists of a number of trading companies, each providing services within core niche areas of the health and social care industries. Therefore, as this document is a Group Policy, the Policy herein applies to all trading companies detailed below:

|  |   |
|--|---|
| <br>Part of Acacium Group | <br>Part of Acacium Group |
| <br>Part of Acacium Group | <br>Part of Acacium Group |

## Appendix B: Emergency Laryngectomy Management

