BTS Model of Care for Complex Home Ventilation: Appendices

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Appendix 1 Consumables for tracheostomy invasive ventilated patients

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
AIRWAY					
Tracheostomy Tube	CHC / NRS	NHS supply chain (NHS SC)	TBC by hospital discharge team	TBC but usually monthly	1 per month
Tracheostomy inner cannulas	CHC / NRS	NHS SC	TBC by hospital discharge team	Monthly / PRN	TBC
Heat-moisture exchanger (HME) for self-ventilating tracheostomy tube.	ATOS care – order direct once patient is registered. All products are on prescription so the GP will be charged. Therefore, orders can be placed by care agency / patient / family member	1. NHS SC 2. ATOS care 3. ATOS care 4. ATOS care ATOS care – order direct once patient is registered. All products are on prescription so the GP will be charged.	1. Portex Thermovent PC: 100/570/022 NHS code: FTC242 – pack 50 2. Freevent Xtracare PC: 7768 blue - pack 30 3. Freevent Xtracare PC: 7767 white – pack 30 4. Trachephone PC: 7704 pack 50	Changed daily / PRN	Depending on how many in the pack: If 50 then 1 pack per month If 30 then 2 packs each month
HME for ventilated patients to go into ventilator circuit	CHC / NRS	NHS SC	 Intersurgical Hydrotherm PC: 1850000 NHS: FDB 1020 Box 20 HME with catheter mount Intersurgical PC: 1341012s NHS FDD5394 pack 50 HME with catheter mount Intersurgical PC: 1941351 NHS FTC 134 Box 20 	Changed daily or PRN	Depends on the amount per package

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
			4. HME Portex PC: 100/582/000 NHS FTC 076 Box 20		
Tracheostomy tube ties	As above	ATOS care	Freevent Neck Band 2-piece Small – PC: 1752 pack 100 Large – PC: 1762 pack 100	Changed daily / PRN	1 pack per month
Trache stoma dressing	As above	ATOS care	Metalline PC: 23094 pack 50 Trachi dressing small PC: TRDRE0001 pack 20 Advadraw T PC: CR/4416 pack 20	Changed daily / PRN	Depending on how many in a pack
Tracheostomy tube shower cover	As above	ATOS care	Shower cover cascade PC: AS3835 pack 1	Changed when damaged	PRN
Tracheostomy tube inner cannula cleaning swabs	As above	ATOS care	PROVOX swabs Medium PC: 8251 pack 50 Large PC: 8252 pack 50		2 packs
Lubricant for tracheostomy tube changes	As above	ATOS care	Optilube tube 42g PC:1121 pack 1	As required	
Dressing pack	As above	ATOS care	Sterile dressing pack PC: DP SPEC35 pack 12	Single use daily	3 packs
Normal saline for cleaning	As above	ATOS care	Normasol 25ml PC: NOR206B pack 25	Single use	2 packs
Suction catheters for tracheal deep suction. Size will	CHC / NRS	NHS SC	All suction catheters must have a suction port: Tendertip size 10 PC: TT01-10-060 NHS: FSQ 580	Single use only	5-6 boxes of 100 per month

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
depend on trache tube size 10, 12, 14			Tendertip size 12 PC: TT01-12-060 NHS FSQ 576 Tendertip size 14 PC: TT01-14-060 NHS FSQ 578 Argyle Size 12 01952061 / NHS FDR305 Gen Cath GXM-7860SCC12 / FSQ2825 All come in box 100		
Suction unit x 2 which are portable (has an internal battery) reusable cannister I large 1 portable to go out of the house	CHC / NRS	NHS SC	 Laerdal with reusable cannister PC: 78000003 NHS FSL 984 Pack 1 Laerdal LSCU4 300ml cannister PC: 880052 NHS FDR608 Carry case PC: 886110 NHS FSL 1082 	Should be under contract with local medical equipment supply chain	
Suction tubing for suction unit	CHC / NRS	NHS SC	Serres PC: 5833181 NHS FSL 1702 Pack 1	Change monthly PRN	2 monthly
Suction catheter for oral secretions: Yankauer	CHC / NRS	NHS SC	PC: PB-431004 NHS: FDF2259 pack 20 PC: YS-3005 NHS: FDB 136 1 per pack PC: 1180501106 NHS FWP 501 pack 10	Change weekly / PRN	Depends on the number in each pack
Nebuliser compressor /device	CHC / NRS	NHS SC	 Pari-Turbo BoySX PC: 085G3204 NHS FAG071 Respironics UK PC: 1112279 NHS FAG1072 	Change when broken. Needs to be under a local medical service agreement	

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
			Clement Clarke PC: 3605050HW NHS FAG034		
Nebuliser chamber with T-piece	CHC / NRS	NHS SC	 Hudson Teleflex Medical PC: 41745 NHS FDD2311 Box 50 Cirrus 2 nebuliser breathing kit Intersurgical PC: 2605000 Box 40 	Change weekly / PRN (may need 2 nebuliser pots depending on the type of drugs being used)	
Tracheostomy mask for self-ventilating patients with trache tube requiring nebuliser	CHC / NRS	NHS SC	Vyaire Medical PC: 001225 NHS FDQ3519 Box 50	Change weekly	
Bag valve mask circuit with self-inflating reservoir bag	Patient should be given the one they had in hospital	NHS SC	Ambu resuscitator PC: 335002000RH NHS FDE375 Pack 1	When damaged	N/A

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
Upper airway restoration valve / speaking valve		1. GP prescription 2. ATOS care	Kapitex: Passy Muir Valve a. Aqua for in line	Changed when damaged or after 3 months	1 every 3 months
(ONLY TO BE ORDERED IF PRESCRIBED BY A SPECIALIST CLINICIAN)		Z. ATOS Care	with ventilator circuit: PC: TRPMV0002 (pack of 1) b. Purple/clear for self-ventilating patients: PC: TRPMV1003 / TRPMV1002 (pack of 1) 2. Speaking valve for self- ventilating patient only: PC: TSV/100 (pack 12)	months	
VENTILATION					
Domiciliary ventilator with internal and	Home mechanical	Specialist team	N/A	N/A	N/A

ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
portable batteries x 2	ventilation				
and 1 carry case.	specialist team				
Active heated	As above	Specialist team			
humidifier: Fisher					
and Paykal MR550 or					
MR850 with temp					
wires					
MI-E Device (cough	As above as	As above			
assist): Breas	should be				
clearway or Phillips	responsible for				
Respironics	prescription				
Heated breathing	CHC / NRS	NHS SC	• Fisher & Paykel PC: RT202 NHS	Every 2 months	
ventilator circuit with			FDC205 Box 10		
humidification			F&P PC: RT319FE NHS FDC202		
chamber			 Box 10 Breas Medical PC: 0810/SP1 NHS FAG2548 Box 10 Intersurgical PC: 2026310 HNS FDC534 Box 7 		
Dry circuit for day	CHC / NRS	NHS SC	Breas Medical breathing circuit	Change 2 monthly	
use and mobility			with CO2 exhaust port (leak valve) PC: 0792/SP2 NHS FAG442 Box 10		
Sterile water for	CHC / NRS	NHS SC	• Aquuiant 1000mls PC: 500.186	As required – usually	2-4 boxes per month
inhalation /irrigation			NHS FDD4490 Box 10	daily	
for heated					

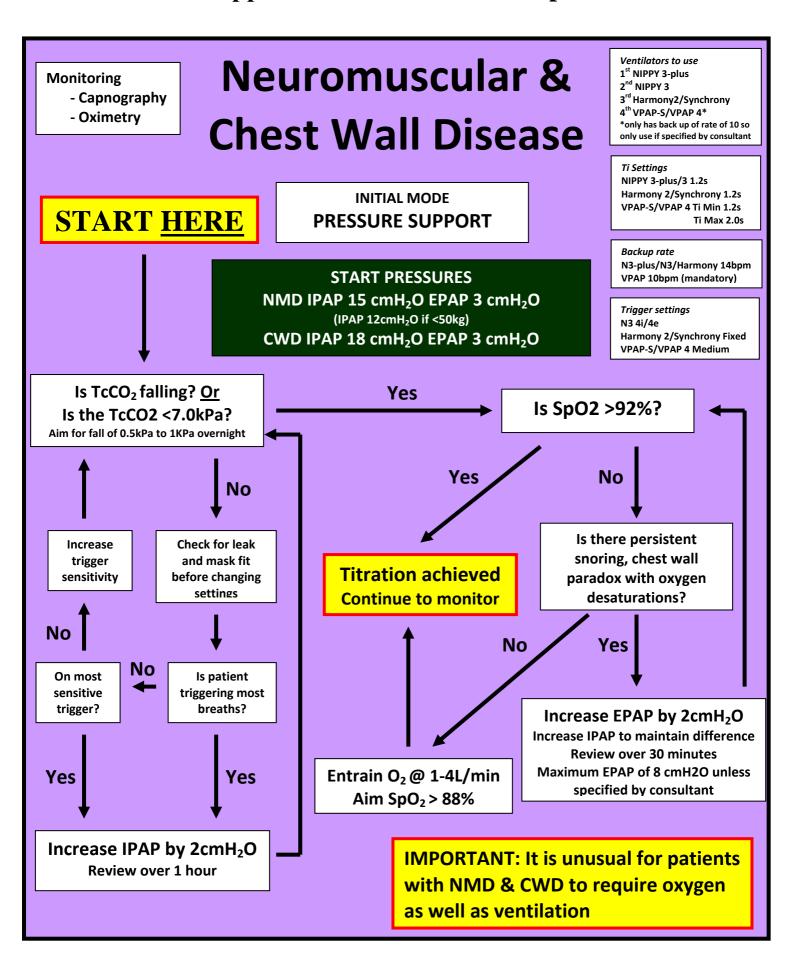
ITEM	WHO TO ORDER	ORDER SYSTEM	PRODUCT CODES / SYSTEM CODES	FREQUENCY OF CHANGE	MONTHLY ORDER
humidification system			 Viaflo 1litre bag PC: 34962211000001107 / 5413760137247 		
Flexible catheter mount with suction port	СНС	NHS SC	 Intersurgical PC: 3516000 HNS FDB939 Box 50 Intersurgical PC: 5180000 NHS FDB938 Box 50 	Change daily / PRN	1 box per month
Exhalation port / Leak valve/port or CO2 leak port disposable	CHC / NRS	NHS SC	Intersurgical PC: 5802001 NHS: FDB1030 Box 30	Change weekly / PRN wash daily	1 box per month
Exhalation port / leak valve/port re-usable for 6 months	CHC / NRS	NHS SC	Respironics Swivel valve PC: 332113 NHS: FAG4900 Pack 1	Change every 6 months if not damaged. Wash daily	2 per year

COPD	Home NIV may be considered for patients with chronic stable hypercapnic COPD, ¹⁸ or following an episode of acute hypercapnic respiratory failure if hypercapnia persists. ¹⁸⁻¹⁹
	Home NIV may also be considered in COPD where LTOT is required but causes significant hypercapnia. ²⁰
	Where COPD exists in an overlap syndrome e.g. with obstructive sleep apnoea/hypopnoea syndrome (OSAHS), home NIV may be considered instead of CPAP if hypercapnia is severe (PaCO2 >7kPa). ²¹
Obstructive sleep apnoea / hypopnoea syndrome (OSAHS)	CPAP is the recommended treatment for OSAHS. Home NIV may be considered where OSAHS is refractory to maximal CPAP therapy. ²²
Obesity hypoventilation syndrome (OHS)	Acute NIV should be utilised in OHS with acute respiratory failure. After stabilisation and control of hypercapnia, home NIV should be considered if decompensation occurs after acute NIV is stopped and/or a trial of CPAP therapy fails. ²²
	CPAP is the first-line treatment for patients with OHS and severe OSAHS who do not have acute respiratory failure. ²² Home NIV should be considered for OHS with severe OSAHS refractory to maximal CPAP therapy. ²²
	Home NIV should be considered for patients with OHS and nocturnal hypoventilation in the absence of OSAHS, who do not have acute respiratory failure. ²²
Neuromuscular disorders	Home ventilation may offer survival benefit, reduce unplanned hospital admissions, and relieve symptoms for patients with neuromuscular disorders and hypoventilation. ^{23,24}
	In MND, respiratory function tests and symptoms should be monitored in line with NICE guidance. Referral to the ventilation service may be made on the basis of respiratory function, or on symptoms of hypoventilation or sleep-related respiratory disturbance alone. Blood gas analysis should be done by referrer if oxygen saturation is ≤92% with known lung disease, or ≤94% without. Where PaCO ₂ is >6kPa, urgent referral is required and a complex ventilation service should see the patient within 1 week. ²⁵
Restrictive thoracic disorders	Home ventilation may offer survival benefit, reduce unplanned hospital admissions, and relieve symptoms for patients with restrictive thoracic disorders and hypoventilation. ²³
Central hypoventilation	Home ventilation may be required, with clinical indication and level of treatment complexity determined by severity of hypoventilation (impairment of neural drive). ²⁶

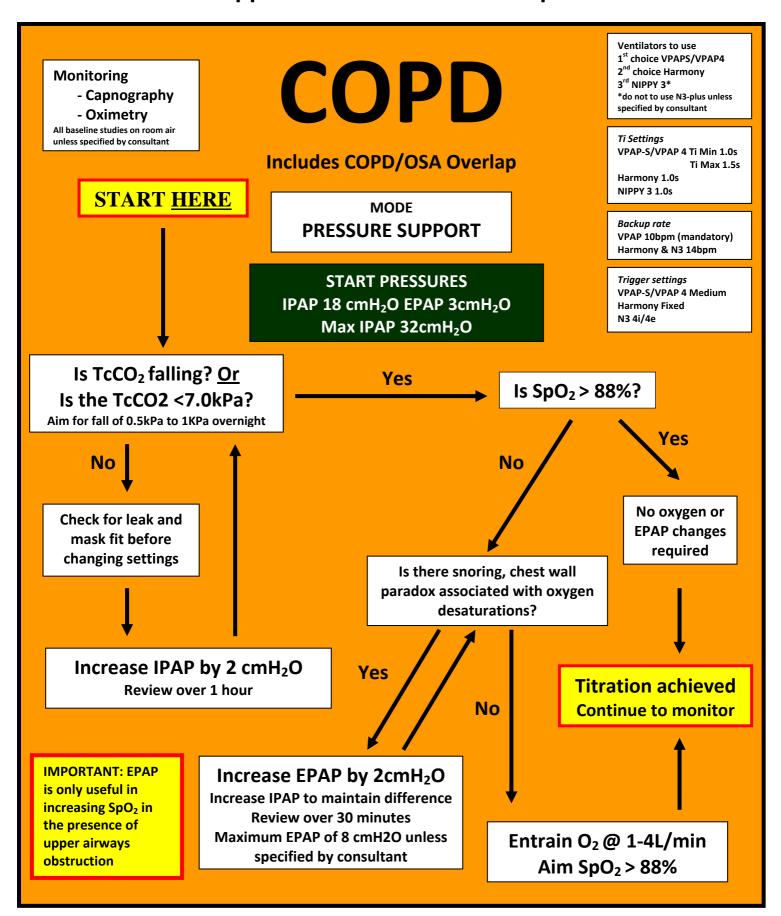
Appendix 2 Evidence for LTV

Pulmonary hypertension	Patients with pulmonary hypertension associated with hypoventilation may be considered for home NIV, based on possible physiological benefit. ²⁷
Spinal cord injury	Home ventilation may be required, with clinical indication and level of treatment complexity determined by degree of respiratory impairment. ²⁶
Cystic fibrosis	Home NIV may be offered for control of hypercapnia and bridge to transplant in CF. ²⁸ NIV may also be considered as an adjunct to airway clearance in selected cases. ²⁹
Paediatric transition	Planned transition from paediatric to adult ventilation services should be undertaken with patients established on or expected to require long-term invasive or non-invasive ventilation, with services working collaboratively. ³⁰

Appendix 3 - Ventilator Set-up



Appendix 4: Ventilator Set-up



Appendix 5: Ventilator Set-up

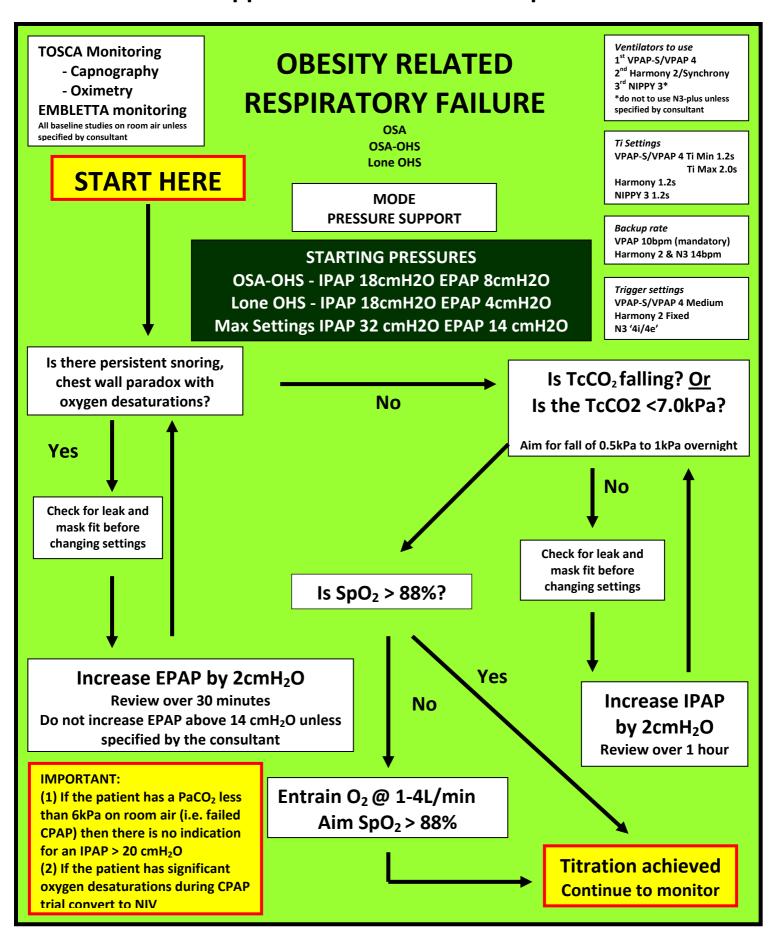


Figure 2: 6-phase discharge pathway

Phase 1

- Identification of the complex HMV patient
- Referral to local HMV team
- Apply for full CHC funding through local ICB
- Identification of appropriate place of discharge
- Appropriate care agency identified when appropriate

Phase 6

- Agreed follow up MDT reviews by HMV service
 - o hospital
 - o home
- HMV team to enable a quality of life

Phase 5

- Discharge checklist completed
- All equipment and consumables in the patients home
- Rolling order of all consumables set up by community and ready to go
- Patient discharged to home

COMPLEX HMV PATIENT

Phase 4

- Pre-discharge communication / meeting to for all patient stakeholders
- Date agreed for discharge
- Comprehensive discharge summaries written
- Agreed pathway back to hospital (local)

Phase 2

- Optimise management & weaning
- Place onto appropriate domiciliary ventilator
- Choice of appropriate interface for the patient
- Reduce clinical monitoring & medicalisation when appropriate

Phase 3

- Training of care agency with shadow shifts
- Equipment and consumables ordered and identified
- Individual Ventilator and chest clearance passport written
- Individual emergency algorithms written
- Discharge checklist



Tracheostomy Tube Care and Mechanical Ventilation: Routine and Emergency

Safe Practice Training for carers

Staff Name:	Assessor Name:
Job Title:	Job Title:
Date of Assessment:	

Competency Statement

The carer will demonstrate **SAFE PRACTICE** for patients with a tracheostomy tube requiring invasive mechanical ventilation.

Key skills	Discuss Theory and Observe Practice	Safe to Practice
Understands the principles and practices of tracheostomy care and		
mechanical ventilation: Routine and Emergency		
Knows the type and size of tracheostomy tube the patient has		
 Knows why the patient has a tracheostomy 		
Essential information about patient's upper airway		
Previous red flags		
 How often the patient's tracheostomy tube has to be changed and who should carry this out 		
The correct position of the tracheostomy tube		
Type of Humidification		
How the tracheostomy tube is secured		
Stoma cleaning and observation		
 Inner tracheostomy cannula cleaning 		
 Patency of tracheostomy tube 		
 Routine suctioning (separate training) 		
 Cuff pressure (where appropriate) 		
• Cuff deflation (where appropriate)		
• Use of upper airway restoration one-way valve (where appropriate)		
 Emergency algorithms and how they are managed: Blocked tracheostomy tube 		
 Dislodged tracheostomy tube 		
Respiratory distress		
o Bleeding		
Identifies the ventilator used		
Understands why the patient requires ventilation		
• Identifies the mode of ventilation the patient is on		
 Identifies what the ventilator alarms mean 		

and cough assist with their generic names	
Identify the signs and symptoms of respiratory distress and chest	
infections	
Understands the algorithms and how to manage the above	
1. Carer is able to demonstrate:	
Two person technique in cleaning stoma, changing tracheostomy	
tapes/collar and dressing	
Discuss the potential risks when cleaning and changing	
tracheostomy tape/collar	
2. Carer is able to demonstrate:	
Safe removal of inner cannula and replacement with clean inner cannula	
Appropriate cleaning and storage of spare inner cannula	
How to measure cuff pressure and how to troubleshoot	
How to carry out safe cuff deflation	
How to use the nebuliser in the ventilator circuit	
How to put any of the following into the ventilator circuit:	
o HME	
Oxygen entrainer Unner signay restoration one way yelve (PMV) speeking	
 Upper airway restoration one-way valve (PMV – speaking valve) 	
o Nebuliser	
3. Carer can identify all emergency equipment:	
working appropriately	
• fully charged	
• In easy access	
All spare emergency tracheostomy tubes are in date	
Emergency tracheostomy box is correct	
4. Carer can demonstrate safe and effective tracheal suction	
Identifies when patient needs suction	
Gathers the correct equipment	
Sets the correct suction pressure	
Carries out effective deep tracheal suction	
Observes type and amount of secretions obtained	
5. Carer can identity an emergency and is able to discuss / carry out	
the steps required for each emergency:	
Sputum plug	
Dislodged tracheostomy tube	
Respiratory distress	
Bleeding	
Vasal vagal response to suctioning	
6 Cover demonstrates the coverest resent the beginning to	
6. Carer demonstrates the correct use of the bag-mask-valve resuscitation device (e.g. AMBU bag)	
7. Carer demonstrates how to troubleshoot ventilator alarms & when /	
who to escalate issues	
8. Carer demonstrates how to set up and change all components of the:	
Ventilator Circuit & exhalation valve for:	

 Dry circuit with HME 	
 Wet circuit with Fisher & Paykal humidification system 	
Cough Assist device circuit	

Outcome of assessment	Safe to practice	Not safe to practice (complete action plan)	Action Plan Completed
Signatures		Signature of Trainee:	Signature of Assessor:

MANAGEMENT OF POSSIBLE CHEST INFECTION TIV

Signs and Symptoms

- Increase in resting respiratory rate >30 bpm sustained
- Increase in secretion load on suctioning & increase need for tracheal suctioning
- Secretions thicker and more sticky
- Secretions have changed colour / may be 'smelly'
- Patient is pyrexial and/or having episodes of being hot / cold
- Patient looks unwell and short of breath

Patient has 1 or 2 signs and symptoms

Patient has >3 signs and symptoms

Management Plan A

- Give extra normal saline (0.9%) nebulisers to reduce thickness of secretions
- If continues to be thick give an extra 3% saline nebuliser (mucoclear) on top of routine
- Increase chest physiotherapy
- Try to keep patient in an upright position even if lying on side
- Ensure patient is well hydrated
- Give regular paracetamol for 24-48 hours

Management Plan B

- Follow Management Plan A PLUS
- Start rescue antibiotics (prescribed by GP and should be always in the home)
 - Give double dose as the first dose then as prescribed
- Inform GP
- Inform outreach
- If symptoms do not improve within 48-72 hours OR patient significantly gets worse OR becomes:
 - Drowsy
 - Temperature not managed with paracetamol

RING 999

Patient has not improved after 24 hours or signs and symptoms have increased go to Management Plan B

MANAGEMENT OF SUSPECTED SPUTUM PLUG WITH MI-E

- Difficulty in breathing & patient is distressed
- Respiratory rate is greater than 28bpm, for more than 1 minute
- Observed use of accessory muscles (abdomen, shoulders)
- Ventilator is alarming
- Reassure patient
- Check all ventilator tubing and exhalation valve are free from obstruction (water in tubing, sputum in exhalation valve)
- Check inner cannula for blockage, replace with clean inner cannula
- Give deep tracheal suction x 2

NOT RESOLVED RESOLVED Commence cough assist therapy RESOLVED **Reassure Patient** Re-connect ventilator and carry out Give 3% saline nebuliser deep tracheal suction x 2 Give extra 0.9% saline Repeat cough assist therapy nebulisers if required Re-connect ventilator and carry out • Ensure patient is well hydrated deep tracheal suction x 2 RESOLVED • Think about giving an extra cough assist **NOT RESOLVED** Keep a close observation of Deflate cuff secretions tenacity and amount Give deep suction **NOT RESOLVED RESOLVED** Disconnect patient from ventilator and attach patient to **AMBU BAG** via trache tube • Give 5 deep breaths using the AMBU BAG Re-connect ventilator and carry out deep tracheal suction **NOT RESOLVED**

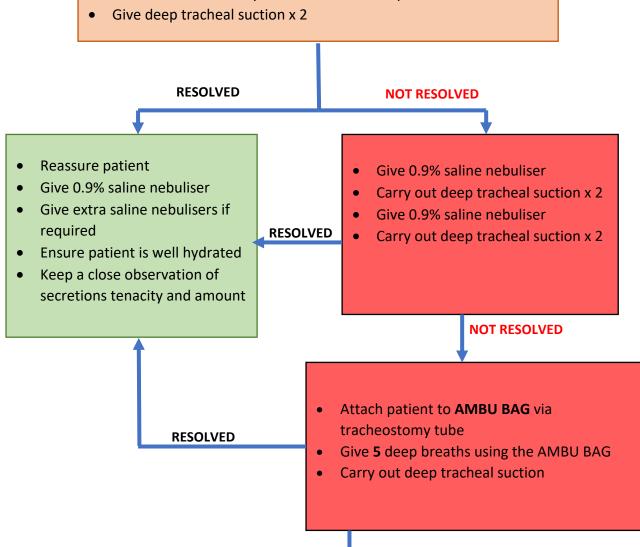
- Repeat **AMBU BAG** breaths if still in distress
- If not able to ventilate patient via Tracheostomy Tube **TAKE OUT TUBE**
- Try re-inserting new tracheostomy tube
- **IF UNABLE TO** commence **AMBU BAG** ventilation via patient's nose and mouth using face mask ENSURE TRACHE STOMA IS COVERED

CALL 999

SUSPECTED SPUTUM PLUG Patients with uncuffed or cuff down tracheostomy tube

THINK A - B - C

- Difficulty in breathing & patient is distressed
- Respiratory rate is greater than 25 bpm for more than 1 minute
- Observed use of accessory muscles (abdomen, shoulders)
- Reassure patient
- Remove tracheostomy inner cannula and replace with clean one



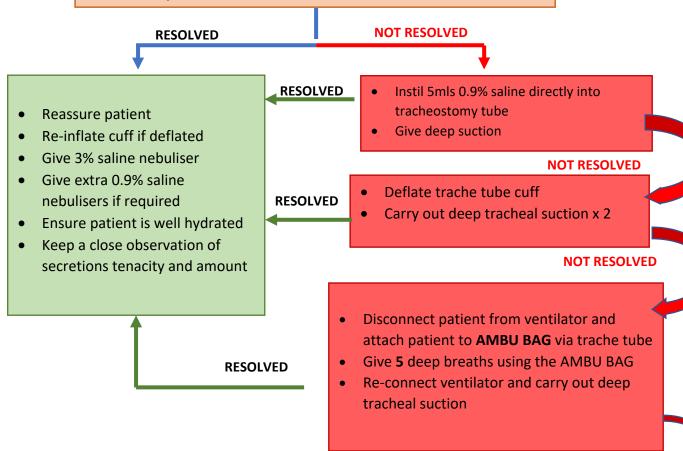
- Repeat **AMBU BAG** breaths if still in distress
- If not able to ventilate patient via Tracheostomy Tube **TAKE OUT TUBE**
- Try re-inserting new tracheostomy tube same size or 1 size smaller
- IF UNABLE TO re-insert and patient not breathing Commence AMBUBAG ventilation via patient's nose and mouth using face mask ENSURE TRACHE STOMA IS COVERED

NOT RESOLVED

CALL 999

MANAGEMENT OF SUSPECTED SPUTUM PLUG TIV

- Difficulty in breathing & patient is distressed
- Respiratory rate is greater than 30bpm, for more than 1 minute
- Observed use of accessory muscles (abdomen, shoulders)
- Ventilator is alarming
- Reassure patient
- Check all ventilator tubing and exhalation valve are free from obstruction (water in tubing, sputum in exhalation valve)
- Check inner cannula for blockage, replace with clean inner cannula
- Give deep tracheal suction x 2



NOT RESOLVED

- Repeat AMBU BAG breaths if still in distress
- If not able to ventilate patient via Tracheostomy Tube TAKE OUT TUBE
- Try re-inserting new tracheostomy tube same size or 1 size smaller
- IF UNABLE TO re-insert commence AMBU BAG ventilation via patient's nose and mouth using face mask – ENSURE TRACHE STOMA IS COVERED

CALL 999

MANAGEMENT OF POSSIBLE CHEST INFECTION TIV

Signs and Symptoms

- Increase in resting respiratory rate >30 bpm sustained
- Increase in secretion load on suctioning & increase need for tracheal suctioning
- Secretions thicker and more sticky
- Secretions have changed colour / may be 'smelly'
- Patient is pyrexial and/or having episodes of being hot / cold
- Patient looks unwell and short of breath

Patient has 1 or 2 signs and symptoms

Patient has >3 signs and symptoms

Management Plan A

- Give extra normal saline (0.9%) nebulisers to reduce thickness of secretions
- If continues to be thick give an extra 3% saline nebuliser (mucoclear) on top of routine
- Increase chest physiotherapy
- Try to keep patient in an upright position even if lying on side
- Ensure patient is well hydrated
- Give regular paracetamol for 24-48 hours

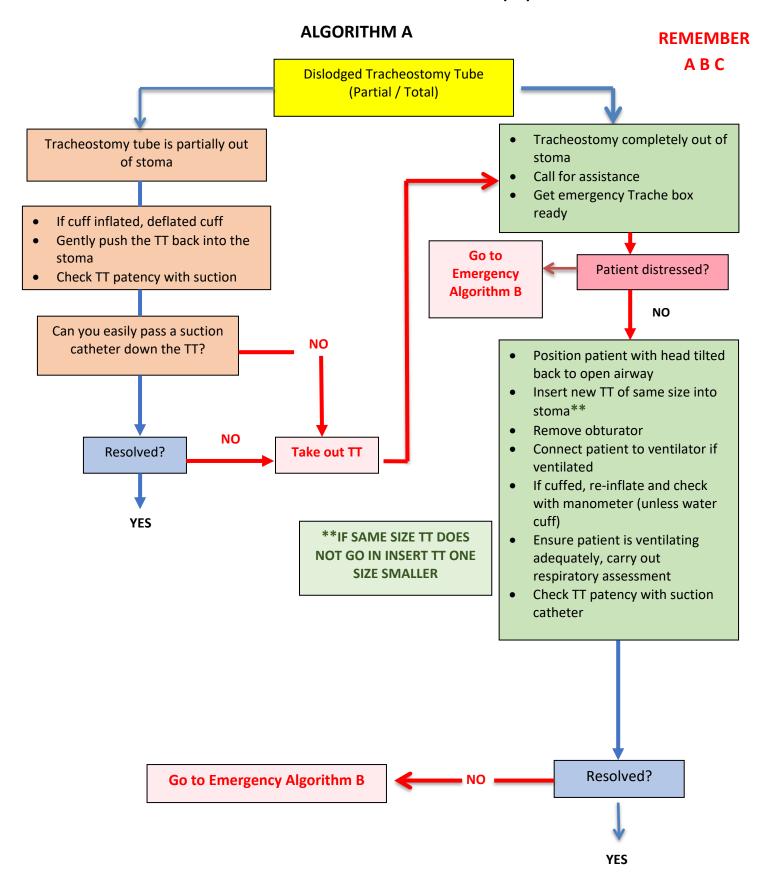
Management Plan B

- Follow Management Plan A PLUS
- Start rescue antibiotics (prescribed by GP and should be always in the home)
 - Give double dose as the first dose then as prescribed
- Inform GP
- Inform outreach
- If symptoms do not improve within 48-72 hours OR patient significantly gets worse OR becomes:
 - Drowsy
 - Temperature not managed with paracetamol

RING 999

Patient has not improved after 24 hours or signs and symptoms have increased go to Management Plan B

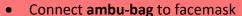
DISLODGED TRACHEOSTOMY TUBE (TT)



EMERGENCY ALGORITHM B

CALL 999 FOR MEDICAL ASSISTANCE

- Tracheostomy tube completely out of stoma
- Patient distressed and / or not breathing
- Carry out ABC basic life support assessment



- Position patient with head tilted back to open airway
- 1 person to cover trache stoma with gauze and gloved hand
- Second person to place ambu-bag face mask over patient's nose and mouth ensure a good seal
- Give breaths using ambu-bag, ensure chest is rising and falling**
- Keep checking ABC as per BLS protocol
- Wait for ambulance crew

**After 10-12 breaths if you are confident try to reinsert a new tracheostomy tube same size or 1 size smaller

- If re-inserted reconnect to ventilator if ventilated
- Secure TT with ties
- If cuffed re-inflate cuff
- Check tube patency with suction catheter
- Carry out respiratory assessment
- Wait for ambulance crew to do further respiratory assessment
- At an appropriate time Inform RBHT outreach team/ GP





Tracheostomy Passport NAME:

Hospital identifier:

DEMOGRAPHICS

NAME	
DOB	

MEDICAL DIAGNOSIS &	
RELEVANT HISTORY	
COMMUNITY CONTACT	
HOSPITAL CONTACT	

GRADE	DIFFICULTY OF CHANGE	WHERE & BY WHO
1	Low risk for self-ventilating patients	Community
		RN / Level 3 Carer
2	Low risk for invasively ventilated patients who	Community
	can self-ventilate (SV) for >5 minutes	RN/ Level 3 carer
3	Medium risk for invasively ventilated patients	Community
	who are fully dependent on ventilation and	RN
	cannot Self Ventilate. Has some RED FLAGS	
4	High risk for any patient with some tracheal	Community / Hospital
	bronchial malacia / tracheal stenosis but able	Specialist Tracheostomy
	to maintain airway for > 5 minutes with trache	Practitioner
	tube removed. RED FLAG	
5	<i>High risk</i> for any patient with severe dynamic	Hospital
	airway collapse / tracheal bronchial malacia,.	ENT specialist team
	Unable to maintain any airway without	
	tracheostomy tube in situ. Severe RED FLAGS	

Type & size of trache			
State of stoma			
Routine cuff management			
Upper Airway Patency			
Communication			
Respiratory support			
	MODE		
	Circuit type		
	e.g passive		
	IPAP		
	EPAP		
	PC / PS		
	Ti		
	RR		
	Tirgger		
Tracheostomy weaning			
Humidification and hydration			
Eating and Drinking			
Secretion management			
	MODE	Timed Auto	
	Insufflation		
	Exsufflation		
	Ti		
	Те		
	Insp repeat		
	Pause		
	Cycle repeat		
Trache changes (time, place issues and by who)			
Red flags			