

Thames Valley & Wessex Operational Delivery Networks

(Hosted by University Hospital Southampton NHS Foundation Trust)

THAMES VALLEY & WESSEX NEONATAL OPERATIONAL DELIVERY NETWORK

THAMES VALLEY & WESSEX GUIDELINE FOR CARE OF INFANT WITH OESOPHAGEAL ATRESIA AND TRACHEO-OESOPHAGEAL FISTULA				
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Implications of race, equality & other diversity duties for this document	This guideline must be implemented fairly and without prejudice whether on the grounds of race, gender, sexual orientation or religion.

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Thames Valley & Wessex Guideline for care of infant with oesophageal atresia and tracheo-oesophageal fistula

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1.0 Introduction

Oesophageal Atresia (OA) is a congenital anomaly in which the oesophagus does not form completely, and the mouth is not connected to the stomach, the oesophagus ends in a blind upper pouch. This can happen as an isolated anomaly or, more commonly, in association with a Tracheo-Oesophageal Fistula (TOF).

Infants with OA are unable to swallow their saliva and are at risk of aspiration into the trachea. Aspiration can cause complications such as apnoea, bradycardia, cyanosis, and pneumonia. They require constant drainage of the pouch to prevent this. This is achieved by placement of a Replogle tube.

Diagnosis of oesophageal atresia is confirmed by passage of a naso-gastric tube (NGT) or oro-gastric tube (OGT), until resistance is met, and a chest X-ray showing the position of the gastric tube in the oesophageal pouch. There is a risk of perforation of the upper oesophageal pouch during insertion of either a conventional gastric tube or a Replogle tube.

2.0 Aim of Guideline

The purpose of this guideline is to promote consistent evidence-based practice across the network to minimise the risks to patients from complications.

2.0 Scope of Guidelines

This guideline applies to all staff caring for a baby with OA/TOF who are born in neonatal units and maternity units covered by Thames Valley & Wessex Neonatal Network. This includes the following hospitals:

Thames Valley		
TRUST	Hospital	Designation
Oxford University Hospitals NHS Foundation Trust	- John Radcliffe Hospital, Oxford	NICU
Buckinghamshire Healthcare NHS Trust	- Stoke Mandeville Hospital, Aylesbury	LNU
Frimley Health NHS Foundation Trust	- Wexham Park Hospital, Slough	LNU
Milton Keynes University Hospital NHS Foundation	- Milton Koynos Conoral Hospital	LNU
Trust	- Millon Reynes General Hospital	
Royal Berkshire NHS Foundation Trust	- Reading	LNU

Wessex		
TRUST	Hospital	Designation
University Hospital Southampton NHS Foundation	- Princess Anne Hospital	NICU
Trust		
Portsmouth Hospitals University NHS Trust	- Queen Alexandra Hospital	NICU
Dorset County Hospital NHS Foundation Trust	- Dorset County Hospital, Dorchester	SCU
Hampshire Hospitals NHS Foundation Trust	- Basingstoke and North Hampshire	LNU
	Hospital	
Hampshire Hospitals NHS Foundation Trust	- Royal Hampshire County Hospital,	LNU
	Winchester	
Isle of Wight NHS Trust	- St Mary's Hospital	SCU
University Hospitals Dorset NHS Foundation Trust	- Poole Hospital	LNU
Salisbury NHS Foundation Trust	- Salisbury District Hospital	LNU
University Hospitals Sussex NHS Foundation Trust	- St Richard's Hospital, Chichester	SCU

3.0 Definitions

Tracheo-oesophageal	TOF	A connection between the oesophagus and trachea			
fistula					
Oesophageal atresia	OA	Congenital anomaly whereby the oesophagus is not in continuity			
Replogle Tube		Double lumen tube which permits saliva to be withdrawn from the oesophageal pouch			

4.0 Guideline Framework

Details of condition

Oesophageal Atresia (OA) & Tracheo-Oesophageal Fistula (TOF) are rare congenital conditions of the oesophagus and/or trachea that affects 1 in every 2500-4500 infants born¹ (fig 1).



The oesophagus and the trachea form as a single structure. During normal development this structure divides into two, the front forming the trachea and the back forming the oesophagus. Most babies born with both OA and TOF have the distal part of the oesophagus joined to the windpipe (lower pouch fistula). Less commonly, other configurations occur (fig 3).



4.1 Presentation

- Most cases are not diagnosed antenatally only up to 37% are diagnosed before birth. The fetal
 ultrasound scan may raise suspicion of OA+/-TOF typically demonstrating either a small or absent
 stomach bubble, and the mother may have polyhydramnios¹.
- Postnatal presents cyanotic with feeds, mucous from mouth, unable to tolerate own salvia

4.2 Initial management

- Admit to NNU
- Pass an NGT to confirm diagnosis, determining if the oesophagus is complete by how far the NGT goes (appropriate size NGT for baby)
- Obtain a chest X-RAY and an abdominal X-RAY
- Oral suction
- Pass replogle tube
- IVI & maintenance fluids
- Blood gas
- Full monitoring (Heart rate (HR), respiratory rate (RR), oxygen saturations (O2), temperature, blood pressure (BP)
- Urgent SONeT Referral if not born in Southampton or Oxford

4.3 Pre-Operative Management

- Replogle tube in situ with 15 minutely flushes on low-pressure continuous suction
- Nurse prone or head elevated 30-40 degrees
- Surgical review
- Chest and abdominal X-RAY
- ECHO
- Mouthcare

Aim for surgical exploration and repair if able typically within 24 hours following admission.

4.4 Pre-Operative Respiratory Management

Aim to keep infant self-ventilating where able. It is imperative to avoid ventilating/use of CPAP or high flow if possible. Inspired gases will take the path of least resistance, through the fistula triggering the stomach to fill with gas, causing abdominal distension and potentially a perforation. In addition, the infant will not be ventilating adequately, this scenario very quickly becomes an emergency where the TOF needs to be ligated as a matter of urgency to save the infants life. If respiratory support is essential an urgent consultation with the consultant paediatric surgeon is required to make emergency plans for this infant.

5. Replogle tube

A Replogle tube is a double lumen, radio-opaque tube allowing gentle continuous suction and irrigation of the blind pouch of the upper oesophagus thus always keeping it clear of secretions³.

Regular irrigation is essential to prevent the tube becoming blocked with secretions. In most babies this will only be necessary until primary repair of the oesophagus in the first 24 to 48 hours, but occasionally when the gap is too large, a delayed primary anastomosis will be undertaken meaning the tube may be necessary for much longer.



Fig 4 - The TOF Book (2016)²

A Replogle tube should ideally be passed by, or under the supervision of, a nurse or doctor who has demonstrated the necessary competence. If such a person does not exist, then the tube should be placed by someone competent in passing a naso-gastric tube and who understands the associated potential risks.

Replogle tubes can be passed orally or nasally. Nasal tubes are easier to secure and maintain in the correct position. However, if infant < 2.5 kg they should be passed orally.

The length the Replogle Tube is inserted should be documented in the electronic record/observation chart and if it needs replacing it should be to this same length. The Replogle tube may need to be passed further as the baby grows.

Appropriate PPE should be worn, and hands decontaminated as per policy. Before passing the Replogle tube, consider if suction to the nasal passages and the oro-pharynx is clinically necessary. It is expected to see the flush and saliva returning up the main lumen of the tube after the flush has been instilled. This tells you that the tube is flushing well and is clear of secretions. If this does not happen it may mean that the tube has blocked.

5.1.1 Dependency

A baby with a Replogle tube in situ requires constant observation and vigilance and is classified as intensive care⁴. On admission the baby should be fully assessed, monitored and any necessary resuscitative measures taken.

Nurses should demonstrate and maintain the necessary competence to care for an infant with a Replogle tube. Complications such as iatrogenic perforation of the pouch, aspiration pneumonia and damage to the oesophageal mucosa (through high level suction pressures) are all possible.

The optimal environment for an infant with a Replogle Tube to be cared for are the Neonatal Intensive Care Unit and Paediatric Intensive Care Unit. In extraordinary circumstances and if there is appropriate staffing levels and staff competence other locations may be considered.

5.1.2 Preparation to pass a replogle tube

The following equipment should be assembled

- Replogle tube (Size 10 Fr gauge) (figure 5)
- Suction tubing
- Low pressure thoracic suction unit (green)
- 1 ml luer syringe (figure 5)
- 0.9 % sodium chloride (Miniversol).
- Duoderm® & appropriate adhesive tape



5.1.3 Algorithm for passing replogle tube

Pass tube into upper pouch of the oesophagus

Secure tube with an appropriate adhesive dressing

Attach Replogle Tube to Thoracic Suction Unit

Apply continuous suction between 2 - 3 KPa (20 and 30 cms H_2O)

Flush with 0.5 ml sterile 0.9% sodium chloride every 15 minutes

The Replogle tube should be changed every seven days, the insertion date will be documented on electronic record/infants' notes. It may need to be changed more frequently if the tube becomes blocked. The replogle tube should be reinserted to the measurement that was documented previously. Nostrils should be alternated wherever possible. Figure 6

Figure 6 – the picture demonstrates the circulation of fluid via the replogle tube keeping the upper pouch clear. The tube requires flushing to maintain its patency.



Fig 6 - The TOF Book (2016)²

Inserting the Replogle Tube

Rationale

Pass Replogle tube until resistance is felt against the blind ending pouch of the upper oesophagus	Approximately 9-11 cm in term infant		
Pull the Replogle tube back very slightly	To prevent adherence to the oesophageal wall		
Connect larger lumen of Replogle tube to the low flow suction unit using the suction tubing.	To allow constant suction of the upper pouch See Fig. 5		
Set the suction pressure between 2 - 3 KPa (20 and 30 cm H_2O) aiming for the lowest pressure to achieve free flow of saliva	Saliva should be observed progressing along the Replogle tube and into the suction tubing		
Secure the tube firmly once the position is satisfactory using appropriate adhesive dressing	To maintain secure position of tube		
Instil 0.5ml 0.9 % sodium chloride into the flushing lumen of the Replogle tube every 15 minutes	The flush should be observed moving down the main lumen of the tube during installation		
DO NOT leave the syringe attached to the flushing port	An open port is required for the suction to function		
Document the procedure in the infant's medical notes including the length the tube was passed to.	For future reference		
Change the suction tubing and liner every 24 hours	Document date/time		
Assess the skin around the dressing each shift and document appropriately.	If there are concerns about skin integrity the dressing should be removed. The choice of dressing and Replogle tube location may need to be reviewed		

5.1.4 Action if no flash back



5.1.5 On-going Care

If the baby shows signs of deterioration, conventional nasopharyngeal suction should be given, and assistance sought. If there is any doubt about the effectiveness of a Replogle tube appropriate help must be sought immediately. Escalate any clinical concerns to the nurse in charge and the medical team.

- The baby should be positioned with their head elevated 30-40 degrees and preferentially nursed prone. They may be nursed laterally or supine but always with head up to aid drainage of the upper pouch
- 0.5 ml of 0.9% sodium chloride flush should be instilled via the Replogle tube every 15 minutes
- Each flush must be documented
- The sodium chloride ampule and syringe must be labelled with the date and time opened and must be changed at least every shift
- The pressure of the suction unit should be monitored hourly and documented
- If the pressure on the suction dial starts to increase this may be a sign that the Replogle tube is blocked, or it is adherent to the oesophageal wall

5.1.6 If the Replogle tube is not draining:

- Instil an extra 0.5 ml 0.9% sodium chloride
- **DO NOT** be tempted to keep flushing with because this may cause the oesophageal pouch to fill with fluid which may spill over into the trachea

5.1.7 If the Replogle tube is still not draining:

- Check the tube is in the correct position at the nose / lips
- Ensure the suction unit is connected properly, turned on and at the correct pressure
- Try instilling 0.5 ml of air via flushing port
- If this does not resolve the problem, try increasing the suction to between 3 4 KPa (30 and 40 cm H₂O)
- If this is not successful attach the Replogle tube briefly to the low flow orange suction unit between 4 6
 KPa (40 and 60 cm H₂O)
- Once drainage occurs re-attach to the green thoracic suction unit and flush again to ensure now working effectively
- If the problem is still not resolved take out the Replogle tube and replace it

5.1.8 Replogle care during SONeT Transfer

- During transfer SONeT will provide intermittent suction applied to the replogle tube, as unable to provide continuous thoracic suction due to equipment available in ambulance
- Suction should be provided intermittently at lowest level available
- Suction should be provided as required (at least every 15 minutes)

6. The Surgery

The operation will be undertaken in theatre under a general anaesthetic.

Some surgeons chose to perform a bronchoscopy first to exclude a proximal fistula.

The operation to repair OA/TOF can be performed via thoracotomy or thoracoscopic repair. Most surgeons perform a thoracotomy which is an open repair⁶.

The infant is placed on their left side for a right posterior lateral thoracotomy (fig 7).

The TOF is divided, and the trachea end of the TOF closed with sutures (fig 8).

The proximal and distal oesophagus are brought together to assess the gap between them. If the ends can be brought together then the surgeon will join the proximal and distal oesophagus with an end-to-end anastomosis to regain oesophageal continuity. If the surgeons can perform a primary anastomosis, they will pass a trans-anastomotic tube into the stomach and secure at the nostril⁷.





Fig 7 & 8 - The TOF Book (2016)²

7. Post-Operative Care

Infants will be nursed in NNU or PICU post-operatively, they may be extubated in recovery or transferred intubated with a plan to be extubated once stable. A prolonged intubation and use of paralytics will be reserved for infants where the anastomosis is under significant tension and would be advised by the surgeon on an individual basis⁶.

Post operative care:

- Full Monitoring (HR, RR, O2 Saturations, BP) including toe/core temperature monitoring
- Strict fluid balance
- IV fluids
- Aspirate TAT 4 hourly and replace losses ml/ml with IV replacement fluid

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- Blood gas within 1-hour post-op, then regularly as required clinically
- Pain assessment
- Appropriate pain management analgesia and non-pharmacological approach
- Wound assessment
- IVAB typically 48hours⁸
- Mittens on hands & maintain TAT tape securely
- Mouthcare

Feeding via the Trans-Anastomotic Tube (TAT) is typically commenced 24-48 hours post operatively, this is then transitioned to oral feeding when appropriate⁹.

8. Trans-Anastomotic Tube Care

A trans-anastomotic tube (TAT) is a tube placed through an anastomosis. In OA the tube is placed in the stomach and used like a NGT. It can be aspirated, and feeds given as a bolus (fig. 9). There are strict guidelines for care of a TAT:

- DO NOT REPLACE/REINSERT IF TUBE COMES OUT
- Always nurse with mittens on
- Check TAT is fixed securely and labelled
 TAT DO NOT REMOVE
- Re-stick as matter of urgency if not secure
- If TAT dislodged contact surgical team for advice



Fig 9 - The TOF Book (2016)²

9. Long gap OA

In around 10% of infants the gap is too big to be able to perform a primary closure in the first operation due to the 2 ends of oesophagus being too far apart².

There are varying options in this instance. During the first operation a gastrostomy will be inserted to allow feeding into the stomach which the surgeons consider how to proceed later in the management (fig 10). The infant will still require the replogle tube, this will continue to be flushed every 15 minutes.

Many of these infants may be able to have a delayed primary anastomosis. The surgeon will allow time between the initial operation and the second. The second operation with consist of a gap assessment to determine the space between the 2 ends of the oesophagus and decide if the ends can successfully be anastomosed.

In other infants the gap may remain too great, and they require oesophageal replacement surgery in the future. In this instance the baby may have an oesophagostomy formed (fig 11) this is a stoma in the infant's neck to allow safe drainage of saliva and negate the need for the replogle tube. Some centres opt for keeping the replogle tube longer term and avoid giving an oesophagostomy. There are many ways to manage these infants and each surgical centre will manage them slightly differently.



Fig10 & 11 - The TOF Book (2016)²

These infants are a group who due to having a replogle tube for an elongated period, may develop oral aversion. It is valuable to include speech and language therapists in the MDT in supporting these infants, to encourage and promote positive oral experience for them.

9.1 SHAM feeding

Sham feeding in infants with a long gap oesophageal atresia means giving them an oral feed whilst their feed is given via their gastrostomy. They feed via their mouth, and it is automatically suctioned from their upper pouch by the replogle tube, hence the 'sham' as they aren't swallowing due to their OA. The infant will suck the milk in their mouth and then have a full stomach associating the two. It also promotes a positive oral experience for the infant, helping to avoid oral aversion¹⁰. Sham feeding is known to enhance oral skills helping to reduce oral aversion, it also enhances the parent experience of caring for their infant¹¹.

Sham feeding is carefully planned and executed and will only be administered if the infant is awake and ready to take a feed orally and if the replogle tube is functioning well.

Sham feeding is also undertaken in babies with a long gap oesophageal atresia who have had an oesophagostomy formed (see fig 11). The operation is only done when the hope of joining the native oesophagus is abandoned due to the gap being too great. The management of long gap OA varies in the surgical centres across the UK. In Southampton when it is decided the gap is too great, they form an oesophagostomy and then perform a gastric transposition.

When a baby has an oesophagostomy, they will be offered a 'sham feed' at least once per day, the milk is offered orally via bottle or breast and can be collected in a stoma bag or drained onto a towel. This can be messy but it an important part of these infant's care.

10. Screening for VACTERL

There is a high association between having OA/TOF and other congenital anomalies, VACTERL being the most common⁸. If the infant has 3 or more of these anomalies, then they are classed as VACTERL. The infants will be screened for these anomalies, and they are managed accordingly. See Appendix 1 for screening tool.

- V Vertebral
- A Anorectal
- C Cardiac
- T Tracheo-Oesophageal Fistula
- **E** (O)esophageal atresia
- R Renal
- \mathbf{L} Limb

11. On-going management

OA+/-TOF can be a challenging condition to manage, the mortality is more prevalent in very preterm and low birth weight infants.

There is still marked morbidity including but not an exhaustive list:

- anastomotic leak
- anastomotic stricture
- recurrent TOF
- chylothorax
- tracheomalacia
- gastro-oesophageal reflux disease
- laryngomalacia
- TOF cough

These infants will be closely followed up by the multi-disciplinary team (MDT) throughout infancy, childhood and into adulthood. There is a charity 'Tofs – lifelong support for those born unable to swallow' <u>TOFS</u> <u>OA/TOF Support > Charity offering lifelong support for those born unable to swallow</u> 5.

12. Family centred care

When an infant is diagnosed with OA +/- TOF in a DGH, every effort will be made to keep the family together when the baby is transferred to the Tertiary surgical centre (Southampton or Oxford). If the mother is an inpatient

12.1 Multi-Disciplinary Team (MDT) list

12.1.9 Speech and Language Therapy (SALT)

Involvement of speech and language therapists in infants with OA +/- TOF is important especially for infants with long gap OA. They will offer support to the family about how to create positive oral experiences for the infant and they will be able to support assessments and help with sham feeding.

12.1.10 Dietician

A dietician may need to be involved from the neonatal stage for varying reasons but if specialised formula is required for growth, or the infant is fed via gastrostomy then they will support the family with this. They are an important part of the MDT when it comes to weaning and provide support and advice during this time for families.

Team members involved in	Contact name/number	Contacted/Referral	
care		complete	
Surgeon			
Neonatologist/Paediatrician			
Speech and Language			
Dietician			
GP			
Health visitor			

Space to add additional MDT members as required.

12.2 BLS & choking

All families receive basic life support and choking training prior to discharge. The Neonatal Surgical Nurse Specialist (NSNS) team will provide this prior to a family being discharged to home or their DGH. The session involves practical and theory elements and the family have opportunity for follow up sessions and time to practice with the manikin if they wish. They are given St John Ambulance leaflets and advised to visit the website. We also discuss BLS for children and adults¹².

How to do CPR on a baby (under one year old) - Baby First Aid | St John Ambulance (sja.org.uk)

12.3 Outpatient Appointments (OPA)

This may differ depending on the tertiary centre.

Southampton	Oxford			
The infant will be closely followed up initially in	Follow up with children's community team as			
nurse led clinic. Prior to discharge the family are	required.			
given the NSNS contact details and explained				
when to use this and when to use emergency				
services and their local A&E.				
Nurse led clinic – within one week of discharge				
(from Tertiary centre or DGH)				
Reviewed weekly in clinic or by telephone/video				
link				
OPA with surgeon 2-3/12 post discharge	OPA with surgeon 3/12			
OPA with relevant MDT as appropriate	OPA with relevant MDT as appropriate			

12.4 Discharge Checklist

OA-Specific Training ¹³	Completed
BLS Training & leaflets given	
Choke/food bolus obstruction training & leaflets given	
Weaning discussion	
Information re. potential problems: Stricture	
Reflux Feeding difficulties	
Tracheomalacia	
Contact details of who to contact and when re. OA problems, e.g., wound problems, feeding issues, or in an emergency	
Single point of contact e.g., NSNS for consistent communication at discharge	

13. Appendices

13.1 Appendix 1 – VACTERL Screening Assessment

Lood Consultants) Initali			
Lead Consultant:			Local Hos	spital:			
			OA and TOF				
Investigation	Requested/Or Indicated	r Not	Date of Exam	Resul abnor	t: Norm mal	al /	Action
Vertebral Anomaly X-ray		/			~		
Echocardiogram		/			~		
If either above al	onormal for	the fo	llowing investiga	ations	<u>.</u>		
Spinal USS		/			~		
Renal USS		/			~		
	L						
		A	norectal Malformatic	on			
Investigation	Requested/Or Indicated	r Not	Date of Exam	Resul abnor	t: Norm mal	al /	Action
Vertebral Anomaly X-ray		/			~		
Renal USS	```	/			~		
Spinal USS		/		~			
If either above al	onormal for	the fo	llowing investigation	ations	:		
Echocardiogram	`	/			~		
			I				
	List of d	efects o	often identified in VA	CTERL	patient	ts ¹	
Vertebral		<u>Cardia</u>	<u>c</u>		<u>Urinary</u>	/ tract A	nomaly
 Tethered cord Butterfly vertebra Vertebral fusion Hemivertebra Additional lumbar vertebra Additional or absent ribs 		 Ventricular septal defect Atrial septal defect ASD and VSD Tetralogy of Fallot Dextrocardia Coarctation Double arch 		 Reflux Horseshoe kidney Hypospadias Solitary kidney (agenesis) PUJ obstruction Cryptorchidism Dysplastic kidney 			
GI Atresia		Oesophageal atresia			Limb anomalies		<u>s</u>
 Imperforate anus Duodenal atresia <u>Other</u> Cleft palate / lip Abnormal chromosomes 			 With distal fistula H type Pure atresia Double fistulas Proximal fistula 		Abser Digita Hip dy	nt radius I anomalies ysplasia	

13.2 Appendix 2 - Replogle flush documentation

Document length of tube at lips/nostril and thoracic suction setting. Tick to say flushed/non-thoracic used.

Dooumentiengin	or tube				0 000000	i oottiing.		Suy nuoi		unoradio	, uocu.	
	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45
Replogle tube												
length	10cm											
Replogle tube												
flushed	v											
Thoracic	v											
inoracic	21/22											
	экра											
Non-Inoracic												
suction used												
	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30	05:45
Replogle tube												
length												
Replogle tube												
flushed												
Thoracic												
suction setting												
Non-Thoracic												
suction used												
Succion used												
	06,00	06.15	06.20	06.45	07:00	07.15	07.20	07.45	08.00	00.15	09.20	09.45
Developele turb e	06:00	06:15	06:30	06:45	07:00	07:15	07:30	07:45	08:00	08:15	08:30	08:45
Replogie tube												
length												
Replogle tube												
flushed												
Thoracic												
suction setting												
Non-Thoracic												
suction used												
	09:00	09:15	09:30	09:45	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
Replogle tube												
length												
Replogle tube												
flushed												
Thoracic												
suction sotting												
Non Thorasia												
suction used												
	40.00	48.55	40.00	40.55	40.00	48.55	40.05	40.00	4		4	
	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45
Replogle tube												
length												
Replogle tube												
flushed												
Thoracic												
suction setting												
Non-Thoracic												
suction used												

Guideline for the care of infant with oesophageal atresia and tracheo-oesophageal fistula– V1 ratified June 2023 Neonatal Generic email: england.tv-w-neonatalnetwork@nhs.net Neonatal website: <u>https://neonatalnetworkssoutheast.nhs.uk/</u>

	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45
Replogle tube length												
Replogle tube flushed												
Thoracic suction setting												
Non-Thoracic suction used												
	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45
Replogle tube length												
Replogle tube flushed												
Thoracic suction setting												
Non-Thoracic suction used												
	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45	23:00	23:15	23:30	23:45
Replogle tube length												
Replogle tube flushed												
Thoracic suction setting												
Non-Thoracic suction used												