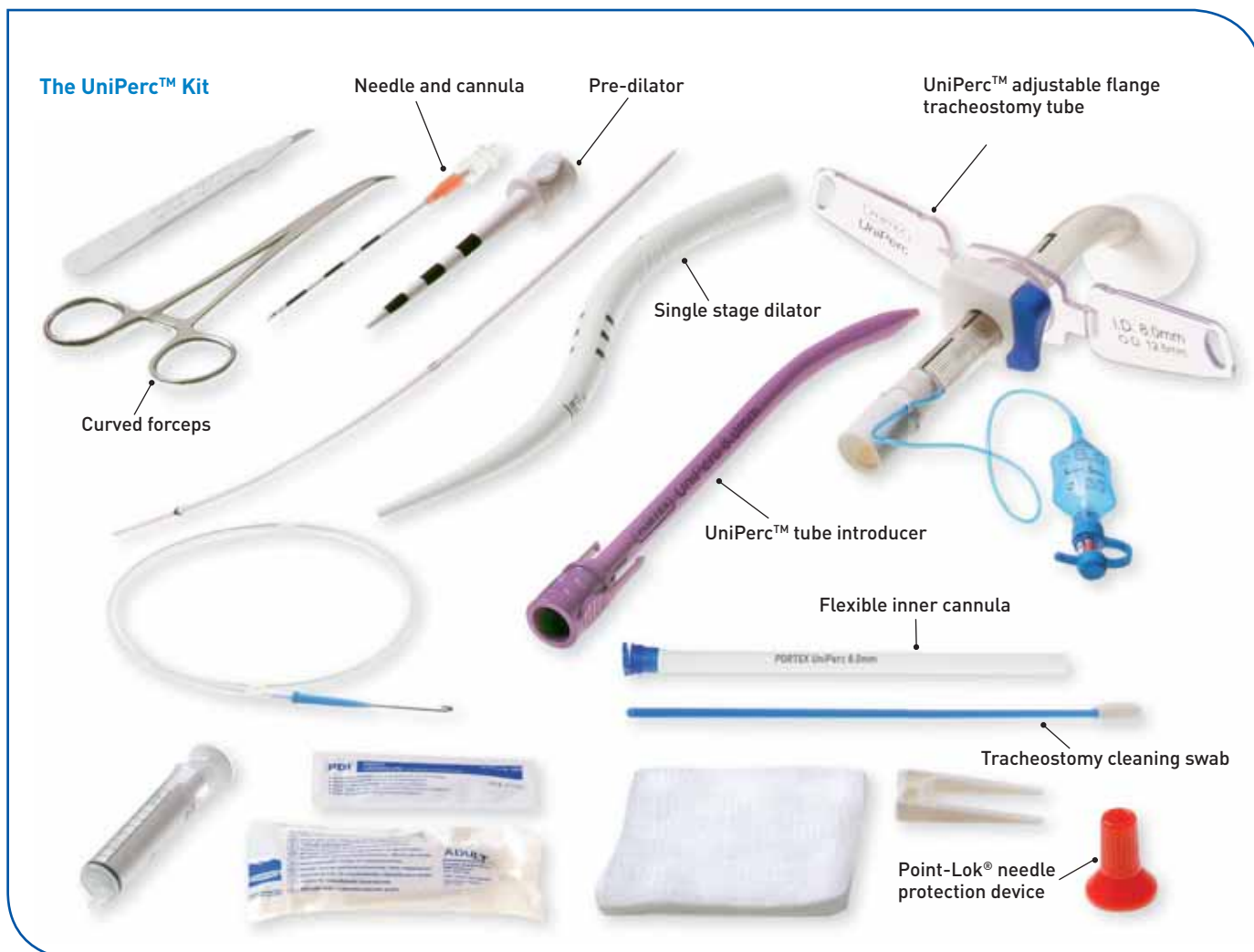


UniPerc™ Percutaneous Tracheostomy The dedicated kit for larger necks



AIRWAY MANAGEMENT



Introducing the first dedicated percutaneous tracheostomy kit for patients with larger necks

Portex®, the leading brand of airway products from Smiths Medical, has developed a unique new range of percutaneous tracheostomy tubes and kits specially designed for patients with large necks. The increasing prevalence of obesity in the general population is reflected in the rising numbers of obese patients admitted to intensive care units^[1-3]. The limitations of existing tracheostomy products when treating patients with large necks, present clinicians with a number of challenges. The Portex® UniPerc™ tracheostomy range was developed to meet the changing needs of clinicians. All UniPerc™ products and their components have been designed to make percutaneous insertions into large necks quick, safe and effective. The UniPerc™ range is particularly suitable for patients with:

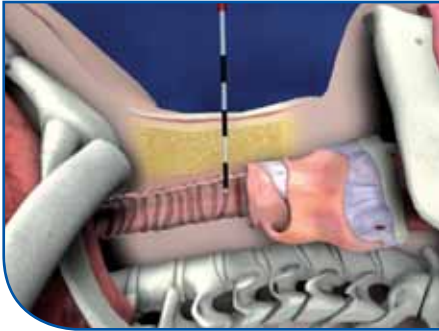
- Large necks
- Muscular necks
- Short necks
- Obese necks
- Bull necks

UniPerc™ Percutaneous Dilatation Tracheostomy kit contents

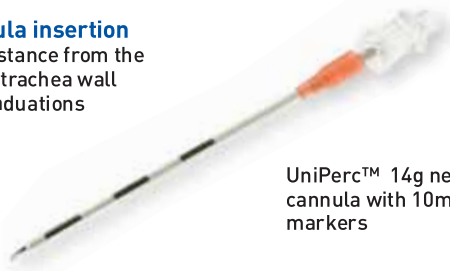
- Scalpel with a number 15 blade
- Curved forceps for the blunt dissection of pre-tracheal tissues
- 10 ml syringe for aspiration
- Extra long 14g graduated needle & cannula
- Extra long graduated pre-dilator
- Extra long guide wire
- Extra long guiding catheter
- Hydrophilic graduated single stage dilator
- UniPerc™ cuffed adjustable flange tracheostomy tube
- Tracheostomy tube introducer
- Flexible inner cannula
- Swabs x 10
- Tracheostomy tube holder
- Tracheostomy cleaning swab
- Sterile lubricating jelly
- Point-lok® needle protection device for introducer needle
- Tracheostomy tube disconnection wedge
- Fenestrated drape with transparent window (not shown)
- Trolley drape (not shown)

References

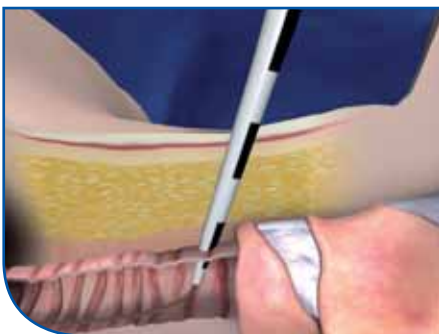
1. Pi-Sunyer FX. Health implications of obesity. *Am J Clin Nutr* 1991; 53 (6 Suppl):1595s-1603s.
2. Flegal KM, Graubard BI, Williamson DF, Gail MH. Excess death associated with underweight, overweight, and obesity. *JAMA* 2005; 293:1861-1867.
3. Tremblay A, Bandi V. Impact of body mass index on outcomes following critical care. *Chest* 2003; 123:1202-1207.



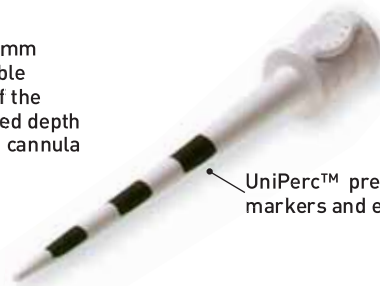
Needle and cannula insertion
 – establishes the distance from the skin to the anterior trachea wall using the 10mm graduations



UniPerc™ 14g needle and cannula with 10mm graduated markers



Pre-dilator insertion
 – the corresponding 10 mm graduated markers enable a confident placement of the pre-dilator to the required depth measured at needle and cannula insertion stage



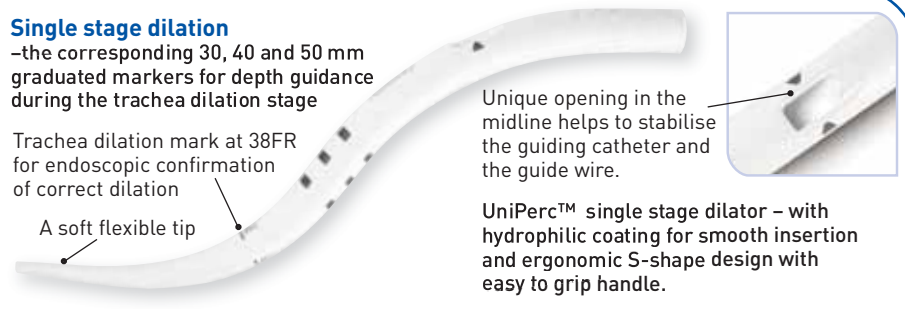
UniPerc™ pre-dilator with 10mm markers and enhanced grip



Single stage dilation
 –the corresponding 30, 40 and 50 mm graduated markers for depth guidance during the trachea dilation stage

Trachea dilation mark at 38FR for endoscopic confirmation of correct dilation

A soft flexible tip



Unique opening in the midline helps to stabilise the guiding catheter and the guide wire.

UniPerc™ single stage dilator – with hydrophilic coating for smooth insertion and ergonomic S-shape design with easy to grip handle.

Percutaneous insertion into large necks made quick, safe and easy

The UniPerc™ percutaneous dilation kit allows the percutaneous insertion of a reinforced adjustable flange tracheostomy tube using a Seldinger technique and a single stage dilator designed for use on patients with a large neck anatomy and where standard kits are inappropriate because the tracheostomy tube and procedural components are too short.

The UniPerc™ kit is intended for patients with up to 50 mm of pretracheal depth. The unique distinctive 10 millimetre markings on the cannula, predilator and the single stage dilator enable to measure the pretracheal depth accurately and place all components safely. The same measurement can be used to pre set the adjustable flange on the UniPerc™ adjustable tracheostomy flange to the correct distance.

UniPerc™ Tube Size Selection

- The Portex® UniPerc™ is the first tracheostomy tube designed with its sizing based on the inside diameter (I.D.) of the tube with its inner cannula in place
- The product is labelled in accordance with BS EN ISO 5366-1:2004 where the stated I.D. (7.0 mm, 8.0 mm and 9.0 mm) is measured at the narrowest point (tip of the tube). However, the main inner diameter is significantly larger and will completely accommodate the inner cannula. Other tracheostomy tubes quote an I.D. which is then significantly reduced by the insertion of an inner cannula
- The tube without the inner cannula in place provides equivalent flow resistance to the next size up with its inner cannula in place

UniPerc™ Tube Sizing Recommendations

- Size 7.0mm and 8.0mm will be the normal tubes of choice for the vast majority of patients
- Size 9.0mm is available for use in very large tracheas, cases of enlarged trachea or tracheomalacia

The UniPerc™ Kit – Key points

- Intended for patients with up to 50mm pretracheal depth
- IFU must be read, understood and followed
- Components are longer than standard PDT kits
- Components must not be mixed with other percutaneous devices
- All components must be used in the correct sequence



UniPerc™ Tracheostomy Tube - the 1st adjustable flange tracheostomy tube with a flexible inner cannula

UniPerc™ Adjustable Flange tracheostomy Tube

- Graduated reinforced PVC material provides a high level of flexibility with ultimate kink resistance
- Tapered tip to assist percutaneous placement capable of fitting patients with up to 50 mm of pre-tracheal soft tissues
- Curved for maximum patient comfort and features a Soft-Seal® cuff
- Safe for use during Magnetic Resonance Imaging (MRI). The image in close proximity to the tube may be distorted
- The distinctive markings on the tube permit easy setting of the flange at the correct depth
- The large transparent flexible wings for improved patient comfort
- Positive locking clamp – simple to use with positive feel and visual conformation

Flexible inner cannula

- Fully flexible and manufactured from PTFE to minimise secretion adherence
- Single patient use design and can be re-used for up to 29 days
- Blue ring pull provides easy identification when in situ and aids easy insertion and removal
- Does not reduce the inner diameter as the tracheostomy tube is sized at its narrowest point. The inner cannula fits against this point and therefore when in situ does not reduce the stated diameter of the UniPerc™ tube

UniPerc™ Adjustable Flange Tracheostomy Tube Initial Flange Settings

Internal Diameter (mm)	Suggested Initial Flange Setting (mm)
7.0	skin to trachea distance plus (+) 50 mm
8.0	skin to trachea distance plus (+) 55 mm
9.0	skin to trachea distance plus (+) 60 mm

UniPerc™ Tube Dimensions

UniPerc™					Blue Line Ultra (for comparison)	
I.D. (as labelled)	Tip I.D.	Inner Cannula I.D.	Main Tube I.D.	Tube O.D.	Tip O.D.	Main Tube
7.0mm	7.0mm	7.0mm	9.3mm	11.6	9.6	10.5
8.0mm	8.0mm	8.0mm	10.3mm	12.6	10.9	11.9
9.0mm	9.0mm	9.0mm	11.3mm	13.6	12.3	13.3
10.0mm	-	-	-	-	13.7	14.0

**The UniPercTM
percutaneous dilation
procedure overview**



1) Place the patient in supine position with hyperextended neck and supported shoulders.



2) Locate and identify the anatomical landmarks.



3) Make an incision of 20-25mm in the skin only and perform blunt tissue dissection.



4) Insert the needle and cannula with syringe attached. Check needle position in the trachea by endoscopic view and air aspiration. Note the depth of the pretracheal tissue using the 1cm markings on the cannula.



5) Insert the guide wire into the cannula until the first mark on the guide wire is positioned at the hub of the cannula.



6) Pass the predilator over the guide wire and with a gentle twisting movement penetrate the anterior tracheal wall to the depth measured with the cannula.



7) Pass the guiding catheter over the guide wire until the black safety stop is located at the skin level and the proximal end aligns with the proximal mark of the guide wire.



8) The guide wire and guiding catheter will exit the dilator and the proximal marker of the guiding catheter must be visible in the dilator window.



9) Using the attached table, adjust the flange of the UniPercTM tracheostomy tube to the measured length. Lock into position by pushing the blue arm until it is flush with the white hub.



10) Pass the UniPercTM tracheostomy tube with introducer fitted over the guide wire and guiding catheter until the flange reaches the skin.



11) Remove the introducer together with the guiding catheter and guide wire. Following transfer of the breathing circuit, inflate the cuff and secure the tracheostomy tube with neck tapes.

UniPerc™ Percutaneous Dilatation Tracheostomy Kits with Single Stage Dilator

ORDERING INFORMATION

	Product Code
With UniPerc™ Adjustable Flange Tracheostomy Tube 7.0 mm and Introducer	100/597/070
With UniPerc™ Adjustable Flange Tracheostomy Tube 8.0 mm and Introducer	100/597/080
With UniPerc™ Adjustable Flange Tracheostomy Tube 9.0 mm and Introducer	100/597/090



UniPerc™ Adjustable Flange Tracheostomy Tubes

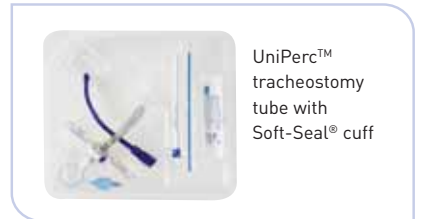
ORDERING INFORMATION

WITH SOFT SEAL CUFF® Size (Tube I.D)

Size (Tube I.D)	Pack size	Product Code
7.0 mm	1 unit	100/897/070
8.0 mm	1 unit	100/897/080
9.0 mm	1 unit	100/897/090

UNCUFFED Size (Tube I.D)

Size (Tube I.D)	Pack size	Product code
7.0 mm	1 unit	100/899/070
8.0 mm	1 unit	100/899/080
9.0 mm	1 unit	100/899/090



UniPerc™ Accessories

ORDERING INFORMATION

REPLACEMENT INNER CANNULAE Size (Tube I.D)

Size (Tube I.D)	Pack size	Product Code
7.0 mm	10 units	100/890/070
8.0 mm	10 units	100/890/080
9.0 mm	10 units	100/890/090

GUIDEWIRES FOR TUBE CHANGES OR PDT KITS

	Pack size	Product Code
Spare guidewires	5 units	100/549/000

CLEANING SWABS FOR INNER CANNULAE

	Pack size	Product Code
Foam cleaning swabs	20 units	100/892/200

DEMONSTRATION HEAD

	Pack size	Product Code
UniPerc™ trainer and case	1 unit	UNI100
UniPerc™ trauma kit (2 tracheas and 4 skins)	1 unit	UNI101
UniPerc™ Replacement Neck Foam	2 units	UNI102
UniPerc™ Replacement Case	1 unit	UNI103



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