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Engineering the extraordinary

The Science of Sealing

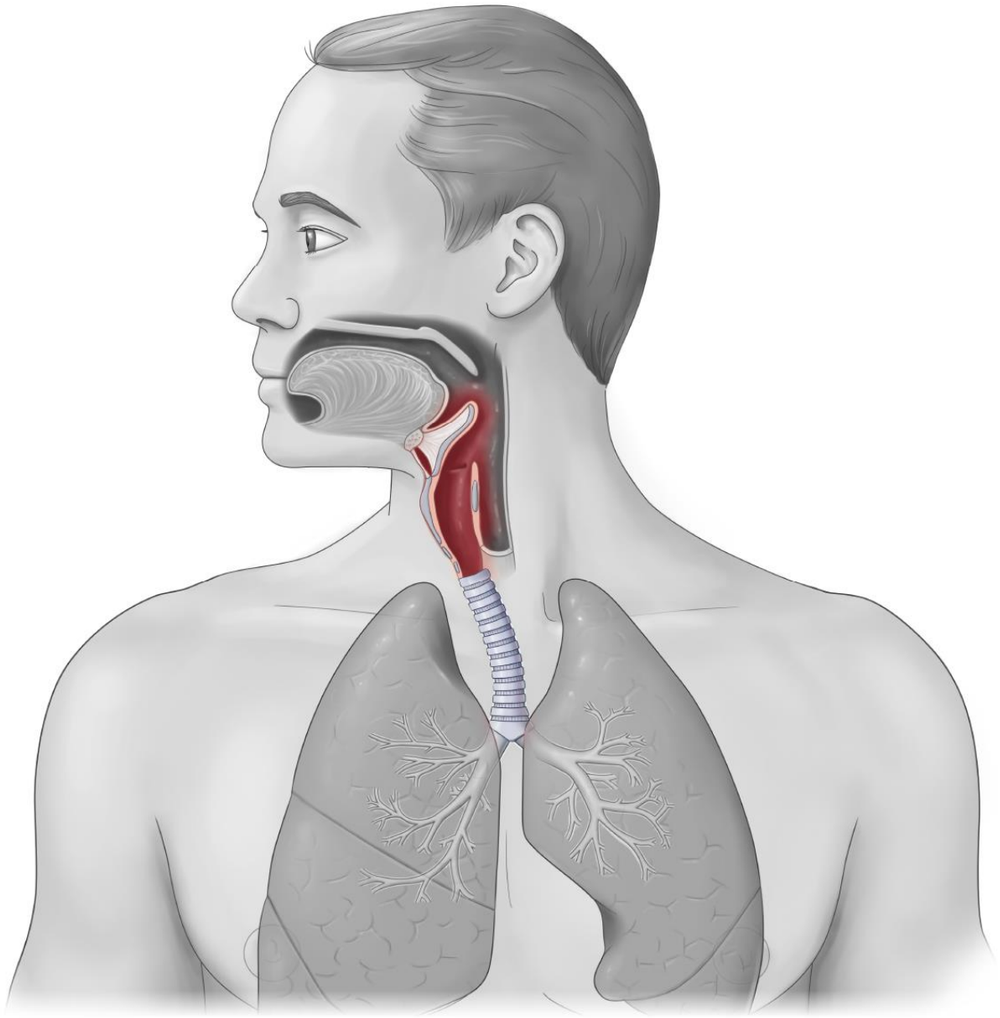
Shiley™ Tracheostomy Tube Options

Expected Tracheal Diameter

Literature search

Dimensions of the normal human trachea:

- Typical male trachea size is 20.9 mm
- Typical female trachea size is 16.9 mm



Breatnach, E, et al. “Dimensions of the Normal Human Trachea.” American Journal of Roentgenology, vol. 142, no. 5, 1984, pp. 903–906., doi:10.2214/ajr.142.5.903.

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Specification Shiley™ Product Comparison

Shiley™ Flex Tracheostomy	CRD	Legacy DCT Tracheostomy	CRD	Shiley™ ETT with TaperGuard™ Cuff	CRD
4CN65X	20.6 mm	4DCT	20.0 mm	18765	20.6 mm
5CN70X	23.0 mm			18770	25.4 mm
6CN75X	25.4 mm	6DCT	24.0 mm	18775	25.4 mm
7CN80X	25.4 mm			18780	25.4 mm
8CN85X	26.6 mm	8DCT	27.0 mm	18785	28.6 mm
9CN90X	27.6 mm			18790	28.6 mm
10CN10X	28.6 mm	10DCT	29.0 mm	18710	28.6 mm

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Specification Shiley™ Product Comparison

Shiley™ Flex Tracheostomy	CRD	XLT Tracheostomy	CRD
4CN65X	20.6 mm		
5CN70X	23.0 mm	60XLTXX	31.3 mm
6CN75X	25.4 mm		
7CN80X	25.4 mm	70XLTXX	35.0 mm
8CN85X	26.6 mm		
9CN90X	27.6 mm	80XLTXX	35.0 mm
10CN10X	28.6 mm		

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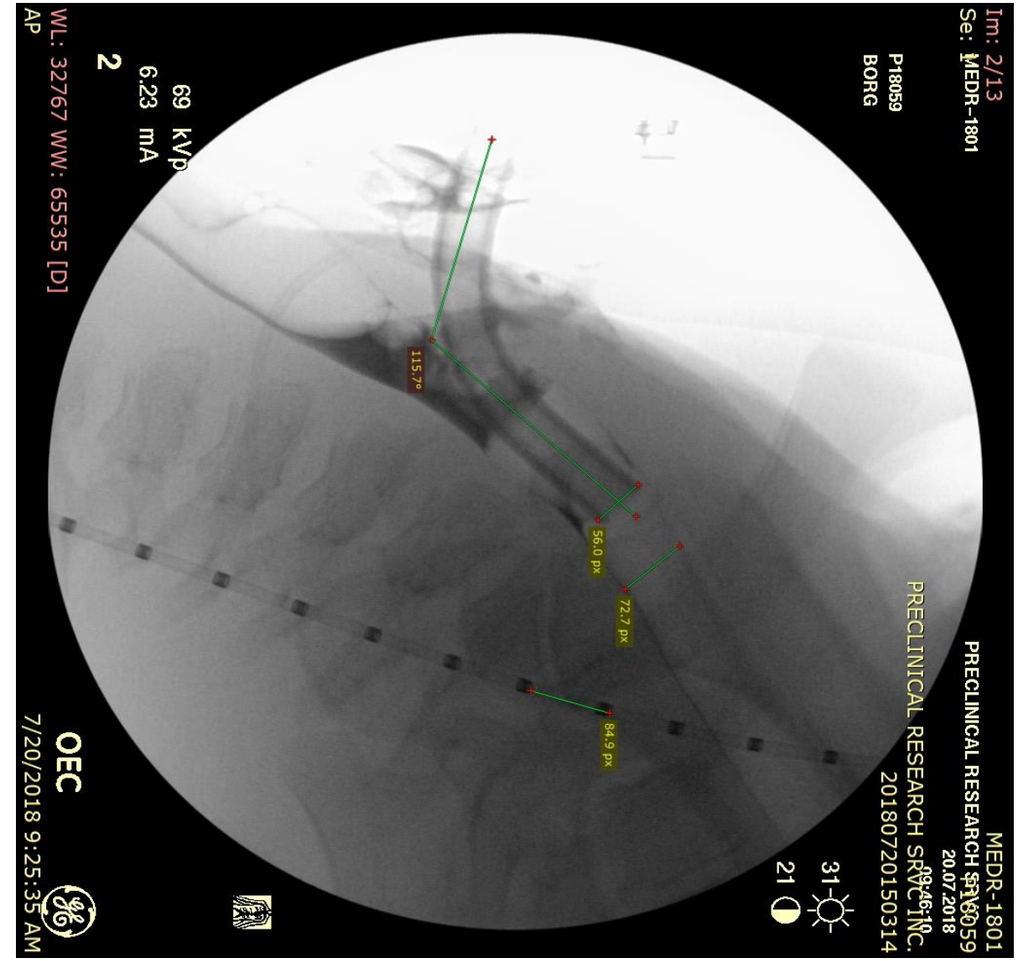
Importance of Choosing the Right Tracheostomy Product

Shiley™ DCT tracheostomy tube with legacy cuff

Shiley™ flexible tracheostomy tube with TaperGuard™ cuff



Images were produced during animal trial comparing Shiley™ DCT to Shiley™ flexible tracheostomy tubes

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When to choose Shiley™ XLT Tracheostomy Tubes

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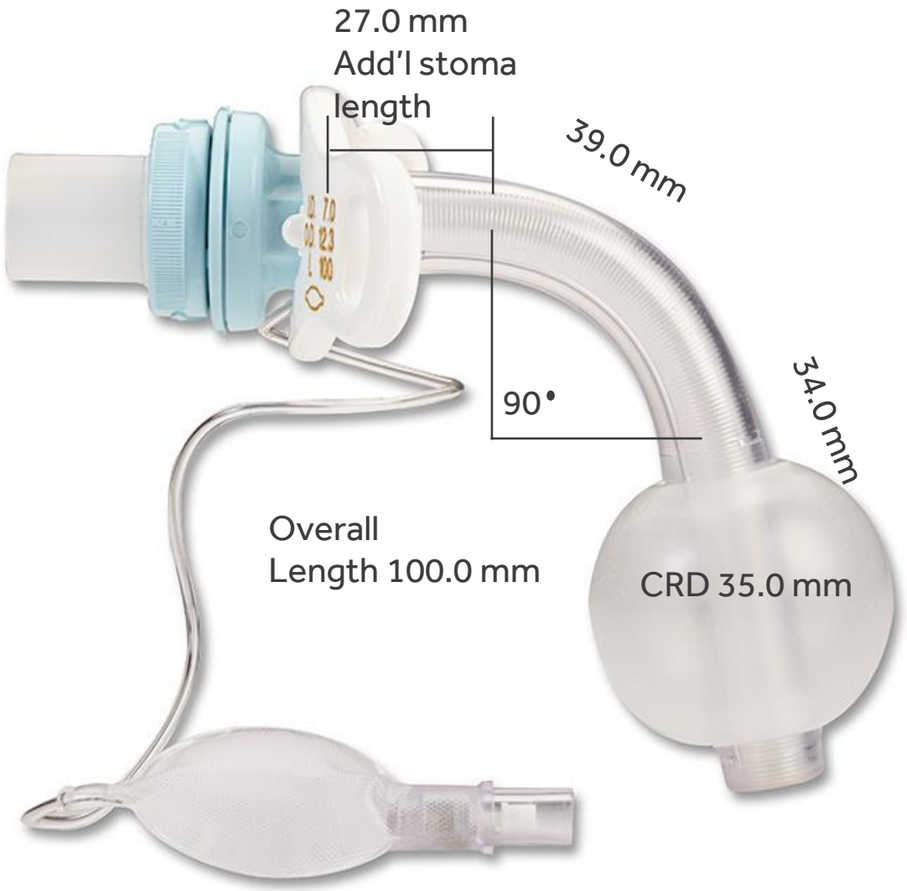
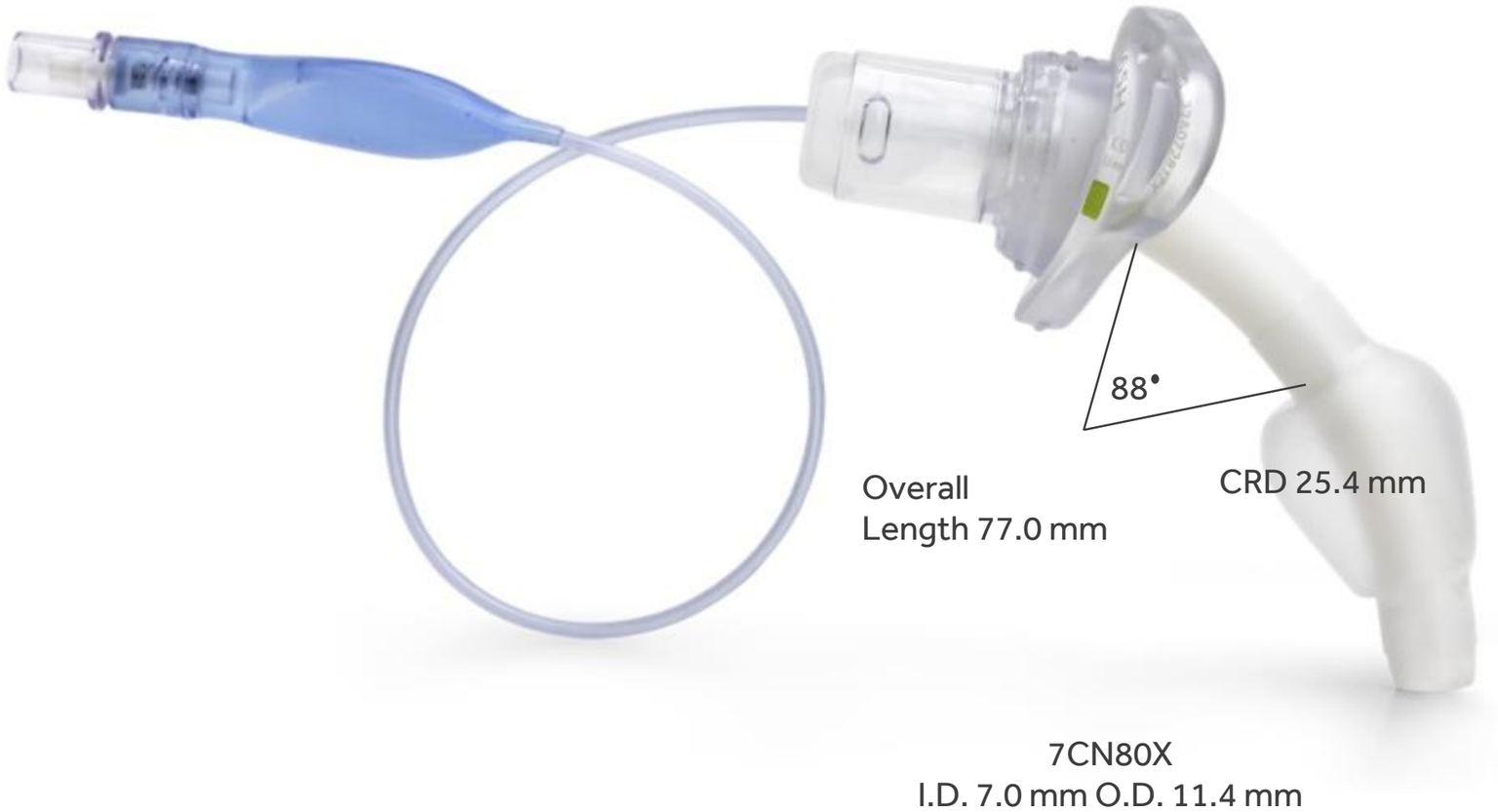
Shiley™ XLT Proximal Tube vs. Shiley™ Flexible Tracheostomy Tube

Product comparison with inner cannula



7XLTCP
I.D. 7.0 mm O.D. 12.3 mm



7CN80X
I.D. 7.0 mm O.D. 11.4 mm

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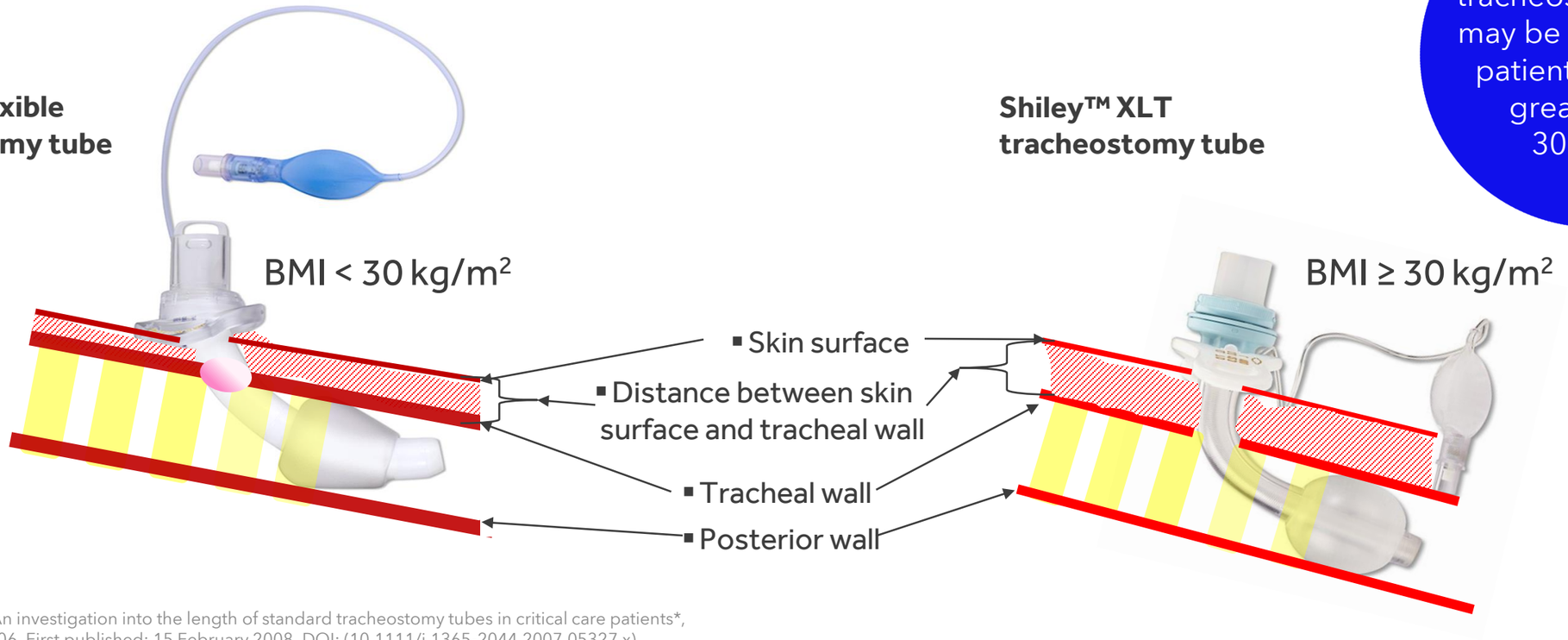
Selecting a Shiley™ Flexible vs. Shiley™ XLT Tracheostomy Tube

Stomal depth depends on several factors:

1. The site of the tracheostomy: If performed below the second or third tracheal ring, the stomal length will be greater than if performed below the first tracheal ring.
2. The angle of the stoma in relation to the trachea: Less acute angles will lead to a greater stomal length.
3. Body size: A greater stomal depth can be expected in the obese.
4. The varying general edema seen in most critical care patients.

Shiley™ XLT tracheostomy tubes may be suitable for patients with BMI greater than 30 kg/m^2

Shiley™ flexible tracheostomy tubes may be suitable for patients with BMI less than 30 kg/m^2.



Mallick, A., Bodenham, A., et. Al. An investigation into the length of standard tracheostomy tubes in critical care patients*, Volume: 63, Issue: 3, Pages: 302-306, First published: 15 February 2008, DOI: (10.1111/j.1365-2044.2007.05327.x)

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The Shiley™ flexible tracheostomy tube is intended for use in providing tracheal access for airway management. The primary user is the caregiver in a clinical environment such as the adult or critical care units of a hospital, non-critical care units of a hospital, long term care facilities, and home care. Patients in the home care environment should be carefully instructed by a home health care provider in the proper use and handling of the tracheostomy tube and accessory products. The tracheostomy tube and obturator are sterile, single patient-use medical devices not intended to be reprocessed (cleaned, disinfected/sterilized) and used on another patient. Duration of use should not exceed twenty-nine (29) days. Please refer to the product manual for detailed usage and troubleshooting instructions.

For further information, please contact your Medtronic representative or view the product manual at manuals.medtronic.com.

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