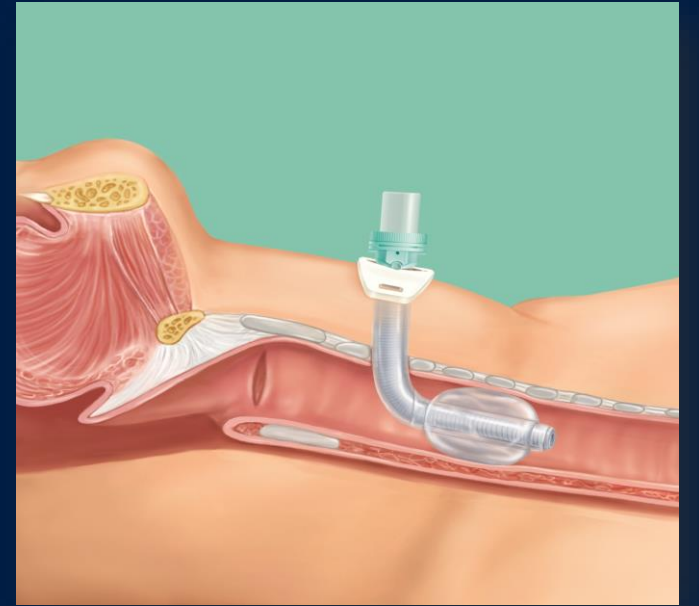


SHILEY™ TRACHEOSTOMY

THE SCIENCE OF SEALING



Medtronic
Further, Together

EXPECTED TRACHEAL DIAMETER

LITERATURE SEARCH

According to Breatnach article “Dimensions of the normal human trachea”

- Typical Male trachea size is 20.9mm
- Typical Female trachea size is 16.9mm

****Current Shiley trach tube cuffs (barrel shaped) are 40% larger than the expected adult trachea**

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.

Brodsky JB, Macario A, Mark JB. Tracheal diameter predicts double-lumen tube size: a method for selecting left double-lumen tubes. *Anesthesia And Analgesia*. 1996;82(4):861-864.

<http://libcontent.medtronic.com/secure/?url=http://search.ebscohost.com/login.aspx?direct=true&db=mdc&AN=8615510&site=eds-live>.

SPECIFICATION SHILEY™ PRODUCT COMPARISON

| Shiley Flex Product | CRD | Legacy DCT Product | CRD | Shiley™ ETT 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 |

SHILEY FLEXIBLE COMPARED TO SHILEY XLT

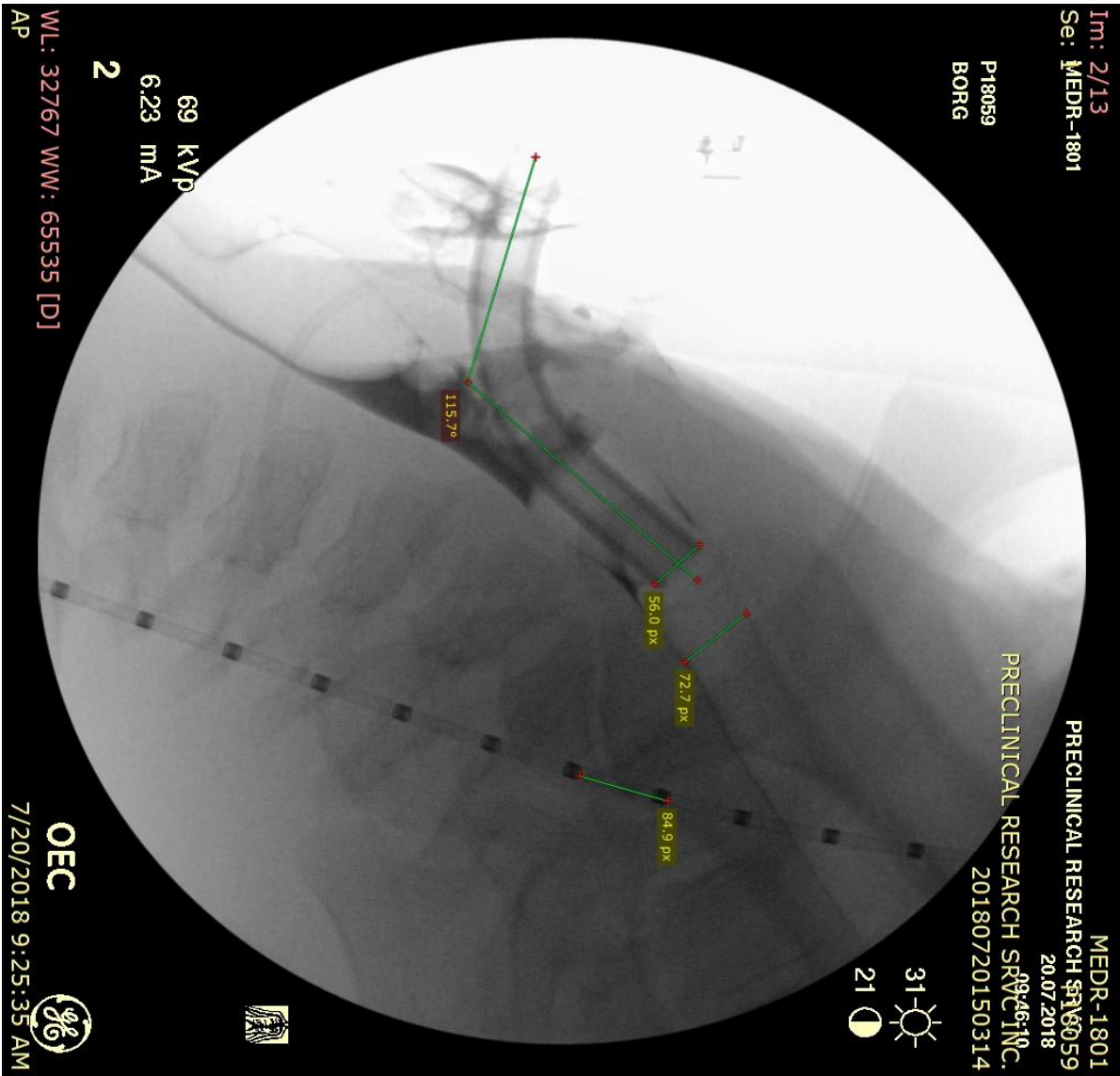
| Shiley Flex Product | CRD | XLT Product | CRD |
|---------------------|---------|-------------|---------|
| 4CN65X | 20.6 mm | | |
| 5CN70X | 23.0 mm | 60XLTXX | 31.3 mm |
| 6CN75X | 25.4 mm | | |
| 7CN80X | 25.4 mm | 70XLTXX | 35.0 mm |
| 8CN85X | 26.6 mm | | |
| 9CN90X | 27.6 mm | 80XLTXX | 35.0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

IMPORTANCE OF CHOOSING THE RIGHT PRODUCT

Shiley™ DCT Legacy cuff



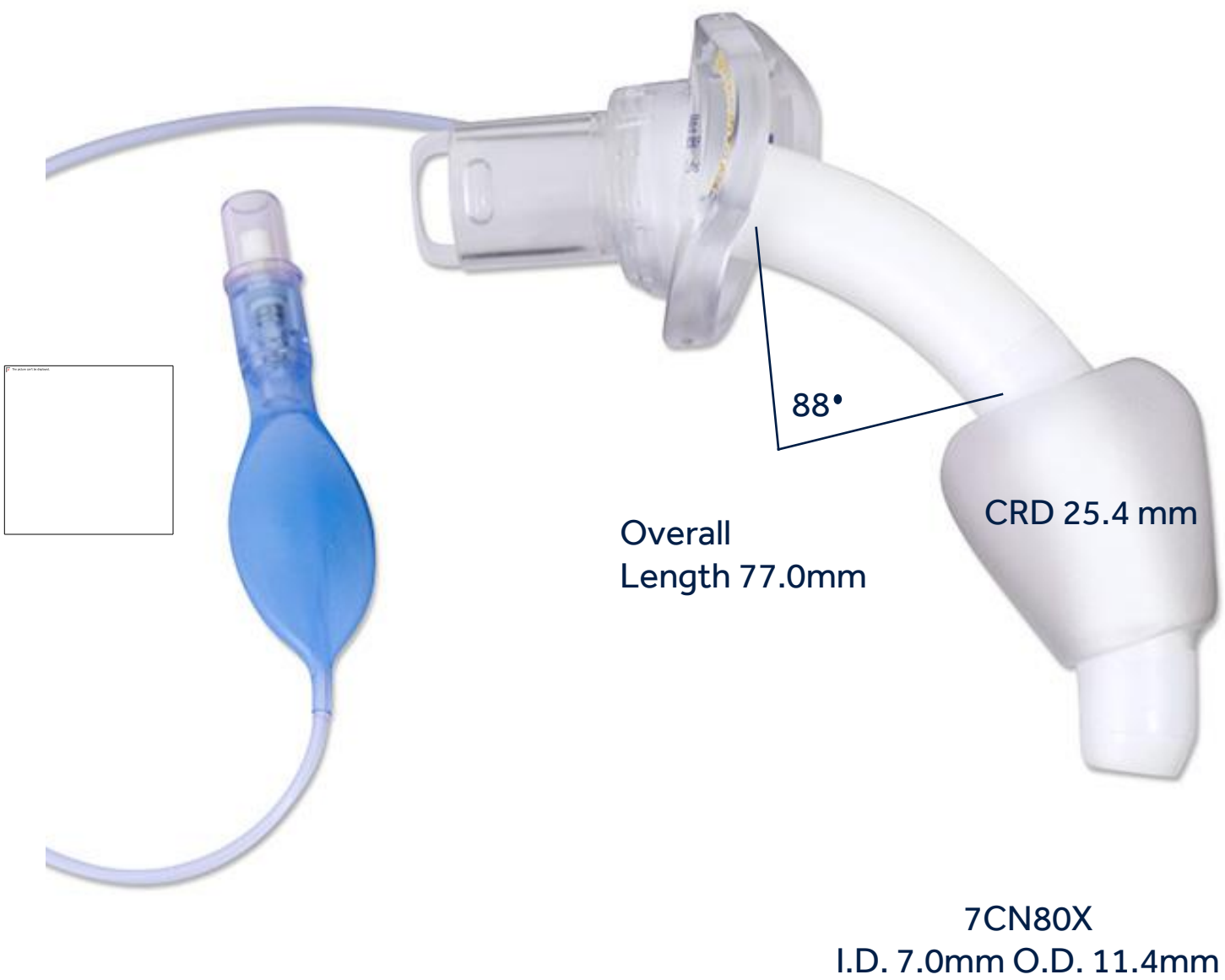
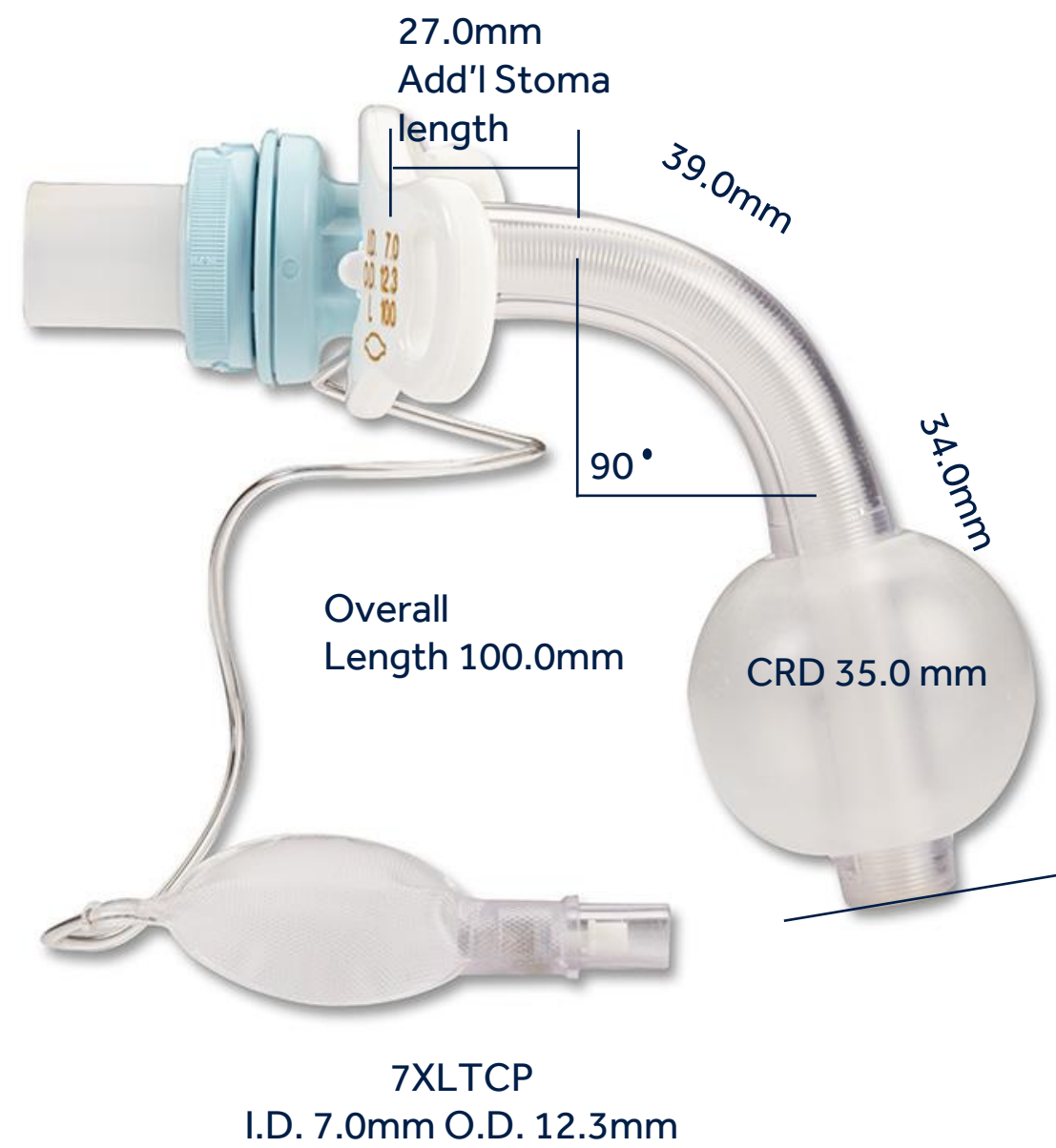
Shiley™ flexible TaperGuard™ cuff



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

WHEN TO CHOOSE XLT

SHILEY FLEX OR XLT PROXIMAL PRODUCT COMPARISON W/ IC



FLEX OR XLT

STOMAL DEPTH DEPENDS ON SEVERAL FACTORS¹:

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)

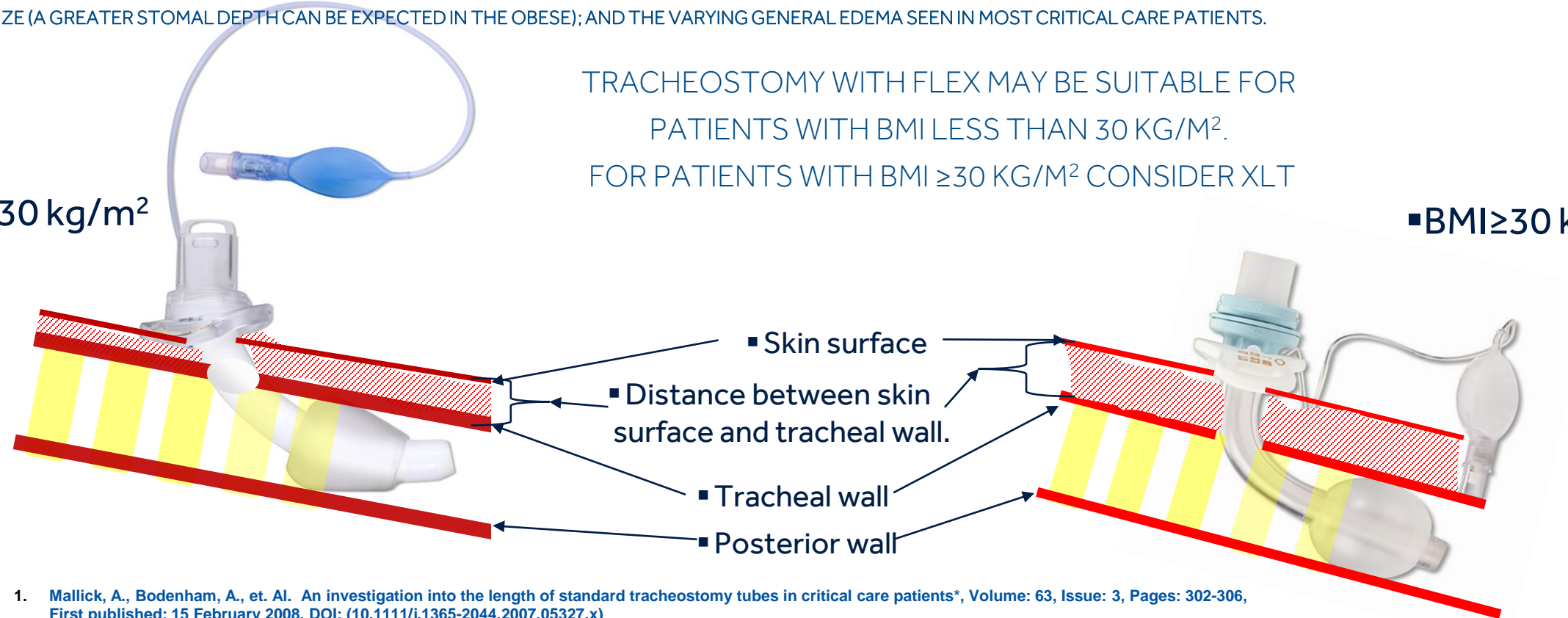
ANGLE OF THE STOMA IN RELATION TO THE TRACHEA (LESS ACUTE ANGLES WILL LEAD TO A GREATER STOMAL LENGTH)

BODY SIZE (A GREATER STOMAL DEPTH CAN BE EXPECTED IN THE OBESE); AND THE VARYING GENERAL EDEMA SEEN IN MOST CRITICAL CARE PATIENTS.

TRACHEOSTOMY WITH FLEX MAY BE SUITABLE FOR
PATIENTS WITH BMI LESS THAN 30 KG/M².
FOR PATIENTS WITH BMI ≥ 30 KG/M² CONSIDER XLT

■ BMI < 30 kg/m²

■ BMI ≥ 30 kg/m²



1. 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)
2. Szeto, C. Kost, K. et al. A simple Method to predict pretracheal tissue thickness to prevent accidental decannulation in the obese. Otolaryngology (2010) 143, 223-229. First published February 28, 2010.

