

# Medtronic

Engineering the extraordinary

Shiley™ flexible adult  
tracheostomy tubes

Enhance  
patient comfort –  
simplify care



# Trusted for over 50 years

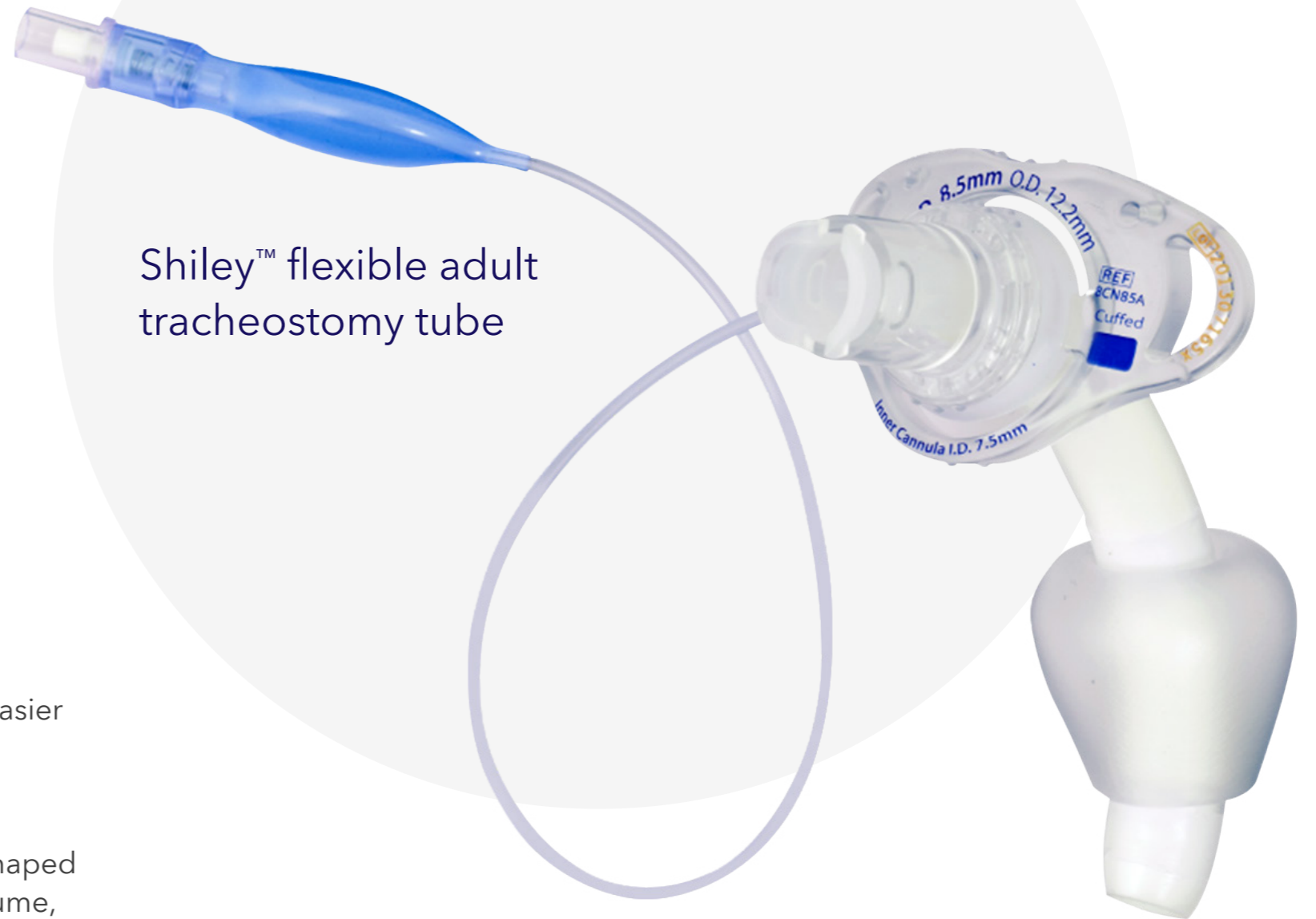
Over 760 million Shiley™ tracheostomy tubes  
used around the world.

Shiley™ adult  
tracheostomy  
tube



Since 1970

# Better fit, greater comfort, easier to use



Shiley™ flexible adult tracheostomy tube

## **More anatomically correct**

The new Shiley™ flexible adult tracheostomy tube is easier to place – and more comfortable for your patient.<sup>1</sup>

## **TaperGuard™ cuff technology**

Clinician-inspired enhancements include the taper-shaped TaperGuard™ cuff. The latest development in low-volume, low-pressure cuff design helping you to secure your patient's pathway.

2015 and beyond

# Shiley™ flexible tubes – advanced design



## Initial placement

### New beveled tip design

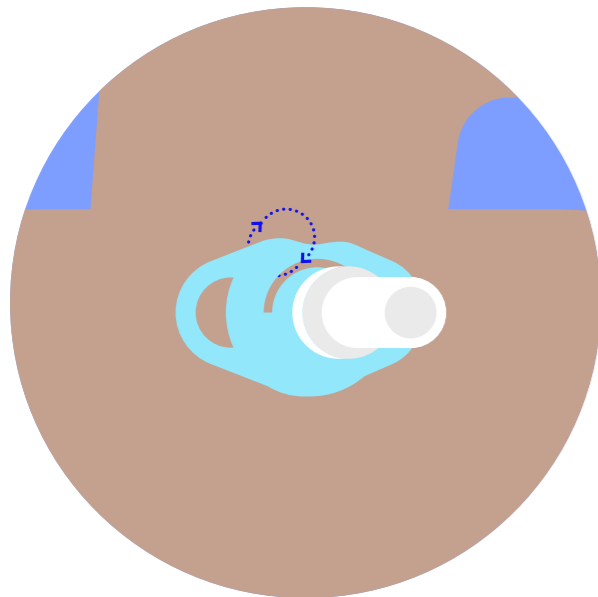
- Reduce insertion force by 39%<sup>1</sup> with a thinner, less bulky cuff
- Eases percutaneous insertion



## Trachea and lung protection

### TaperGuard™ cuff

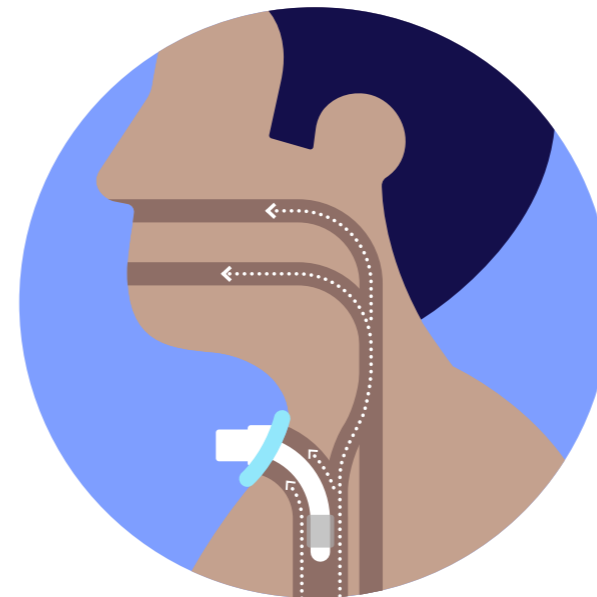
- Reduce fluid leakage by 99%<sup>2</sup>
- Exert 18.6%<sup>3</sup> less lateral wall pressure on the trachea



## Skin care

### Transparent, soft, flexible flange

- Conform to patient's anatomy
- Promote airflow around stoma
- Reduce skin contact with a recessed flange



## Mechanical ventilation and weaning

### Faster weaning

- Increase airflow around the outer cannula by an average of 242%<sup>1</sup> when the cuff is deflated
- Titrate ventilator air leak with 65% greater ability with the addition of TaperGuard™ cuff technology<sup>4</sup>

# Specification overview

New Shiley™ flexible tubes versus previous

## Shiley™ flexible adult tracheostomy tubes with disposable inner cannula

Size		SKU#		Specifications				
Jackson	ISO	Cuffed	Cuffless	Outer cannula inner diameter (mm I.D.)	Inner cannula inner diameter (mm I.D.)	Cannula outer diameter (mm O.D.)	Length (mm)	Cuff resting diameter (mm)
4	6.5	<b>4CN65H</b>	<b>4UN65H</b>	6.5	5.5	9.4	62	20.6
5	7.0	<b>5CN70H</b>	<b>5UN70H</b>	7.0	6.0	10.1	68	23.0
6	7.5	<b>6CN75H</b>	<b>6UN75H</b>	7.5	6.5	10.8	74	25.4
7	8.0	<b>7CN80H</b>	<b>7UN80H</b>	8.0	7.0	11.4	77	25.4
8	8.5	<b>8CN85H</b>	<b>8UN85H</b>	8.5	7.5	12.2	79	26.6
9	9.0	<b>9CN90H</b>	<b>9UN90H</b>	9.0	8.0	12.7	79	27.6
10	10.0	<b>10CN10H</b>	<b>10UN10H</b>	10.0	9.0	13.8	79	28.6

## Shiley™ flexible adult tracheostomy tubes with reusable inner cannula

4	6.5	<b>4CN65R</b>	<b>4UN65R</b>	6.5	5.5	9.4	62	20.6
5	7.0	<b>5CN70R</b>	<b>5UN70R</b>	7.0	6.0	10.1	68	23.0
6	7.5	<b>6CN75R</b>	<b>6UN75R</b>	7.5	6.5	10.8	74	25.4
7	8.0	<b>7CN80R</b>	<b>7UN80R</b>	8.0	7.0	11.4	77	25.4
8	8.5	<b>8CN85R</b>	<b>8UN85R</b>	8.5	7.5	12.2	79	26.6
9	9.0	<b>9CN90R</b>	<b>9UN90R</b>	9.0	8.0	12.7	79	27.6
10	10.0	<b>10CN10R</b>	<b>10UN10R</b>	10.0	9.0	13.8	79	28.6

## Previous Shiley™ flexible adult tracheostomy tubes with disposable inner cannula

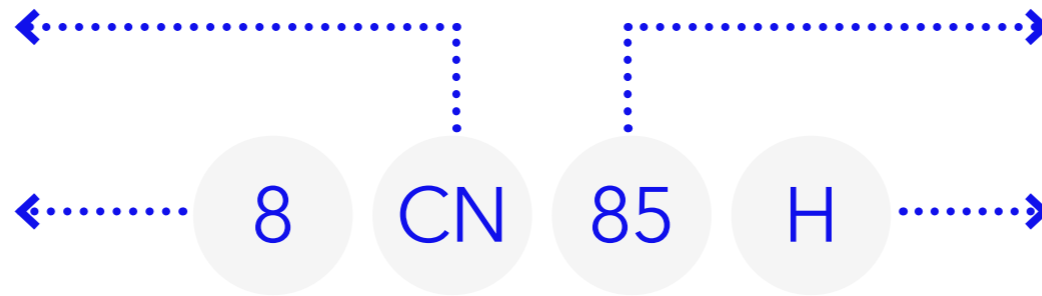
Size		SKU#		Specifications			
Jackson	ISO	Cuffed	Cuffless	Inner cannula inner diameter (mm I.D.)	Outer cannula outer diameter (mm O.D.)	Length (mm)	Cuff resting diameter (mm)
4	6.5	4DCT	4DCFS	5.0	9.4	62	20.0
5	7.0						
6	7.5	6DCT	6DCFS	6.4	10.8	74	24.0
7	8.0						
8	8.5	8DCT	8DCFS	7.6	12.2	79	27.0
9	9.0						
10	10.0	10DCT	10DCFS	8.9	13.8	79	29.0

## Previous Shiley™ flexible adult tracheostomy tubes with reusable inner cannula

4	6.5	4LPC	4CFS	5.0	9.4	65	20
5	7.0						
6	7.5	6LPC	6CFS	6.4	10.8	76	24
7	8.0						
8	8.5	8LPC	8CFS	7.6	12.2	81	27
9	9.0						
10	10.0	10LPC	10CFS	8.9	13.8	81	29

## Product code logic and sizing for Shiley™ flexible tracheostomy tubes

The first letters indicate a cuffed tube (CN) or uncuffed tube (UN)



The second set of numbers indicates the ISO size as well as the inner diameter of the outer cannula

The first number is the Jackson size

The last letter indicates disposable (H) or reusable (R) inner cannula

### References

1. Based on internal testing comparing the Shiley™ Flexible adult tracheostomy tube with TaperGuard™ cuff to the Shiley™ DCT tracheostomy tube cuffed.
2. Internal benchtop testing results. Results reflect testing the Shiley™ Flexible adult tracheostomy tube with TaperGuard™ cuff, disposable inner cannula versus the Shiley™ DCT tracheostomy tube with disposable inner cannula at the same cuff pressure of 25 cm H<sub>2</sub>O.
3. Internal testing results. Results reflect measurements taken for size 7.5 Shiley™ Flexible adult tracheostomy tube compared to the Shiley™ 6DCT tracheostomy tube at the same cuff pressure of 20 cm H<sub>2</sub>O.
4. Internal benchtop testing results. Results reflect the Shiley™ Flexible adult tracheostomy tube with TaperGuard™ cuff, disposable inner cannula tubes ability to titrate / control ventilator air leak in comparison to the Shiley™ tracheostomy tube cuffed with disposable inner cannula (DCT).
5. Mullins JB, Templer JW, Kong J, et al. Airway resistance and work of breathing in tracheostomy tubes. *Laryngoscope*.1993;103(12):1367-1372.

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**View the Shiley™ flexible tracheostomy tube in-service training video.**