Medtronic

Quick reference guide

Shiley™ flexible tracheostomy tubes for neonatal, pediatric, and adult patients

We are pleased to offer an enhanced, comprehensive portfolio of tracheostomy solutions to meet the needs of neonatal, pediatric, and adult patients. Shiley™ flexible tracheostomy tubes feature several design enhancements, compared to traditional Shiley™ tracheostomy tubes, to meet the needs of your patients – regardless of their age.

Traditional versus enhanced Shiley™ tracheostomy tubes

Traditional Shiley™ adult tracheostomy tubes

Flange
- Rigid flange material
- Difficult visualization of underlying skin caused by opaque color
- Firm, opaque PVC material
- Soft swivel neck with tracheostomy ties for securing

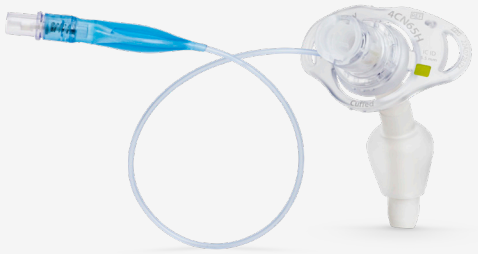
Material
- Sturdy PVC material

Cuff
- Traditional high-volume, low-pressure barrel-shaped cuff

Airflow
- Multiple products optimize airflow around the outer cannula

Sizing
- Traditional Jackson sizing

Connector
- 15-mm connector is part of the disposable or reusable inner cannula



Enhanced Shiley™ flexible adult tracheostomy tubes

Flange
- Soft, recessed flange designed to reduce contact with the stoma site
- Clear flange for enhanced visualization of the underlying skin

Material
- Tube cannula made with a softer material

Cuff
- Low-profile TaperGuard™ taper-shaped cuff
- Reduces insertion force by 39 percent[1,‡]
- Exerts 18.6 percent[2] less lateral wall pressure on the trachea[1,‡]
- Reduces fluid leakage by 96 percent at a lower cuff pressure[3,‡]

Airflow
- Airflow around the outer cannula when the cuff is deflated increased by an average of 242 percent[1,‡]
- Improved airflow may reduce the work of breathing required to speak and wean from a tracheostomy tube[4]

Sizing
- Expanded sizing options
- Color-coded for easy identification
- Both Jackson sizing and ISO sizing referenced

Connector
- Integrated 15-mm connector enables ventilation with or without an inner cannula

†Traditional Shiley™ tracheostomy tubes refers to Shiley DCT, DCFS, DCFN, DFEN, LPC, CFS, CFN, FEN, and Perc tracheostomy tubes.
‡Compared to the Shiley™ DCT tracheostomy tube with a traditional barrel-shaped cuff.

Traditional versus enhanced Shiley™ tracheostomy tubes

Traditional Shiley™ neonatal and pediatric tracheostomy tubes

Flange
- Opaque, white flange

Material
- Made with materials containing DEHP

Cuff
- Traditional high-volume, low-pressure barrel-shaped cuff

Flange Eyelet
- Relatively flat profile

Sizing
- Not available in size 2.5

Connector
- Approximately 2.5 mm shorter than new design

Enhanced Shiley™ neonatal and pediatric tracheostomy tubes

Flange
- Softer§ clear material on neck flange for enhanced visualization of the underlying skin and stoma site. Softer material may increase patient comfort

Material
- Made with materials that do not contain DEHP

Cuff
- TaperGuard™ cuff technology with low-profile (low-volume), low-pressure, air-filled cuff to provide sealing
- Softer clear material on neck flange
- Reduces fluid leakage by an average of 94.8 percent at intracuff pressures of 20 cm H_2O[5]
- Reduces removal force by 58.3 percent, thereby reducing the potential for stoma damage during removal[5]

Flange Eyelet
- Raised outer eyelet portions for easier access when inserting the trach tube holder/tape tie through the flange eyelet

Sizing
- Expanded sizing options, including additional smaller sizes

Connector
- Increased length on both cuffed and cuffless devices

Product code logic and sizing

Shiley™ flexible tracheostomy tubes

The first number is the Jackson size

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

8 CN 85 H

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

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

§Compared to the traditional Shiley™ neonatal and pediatric tracheostomy tube products.

Product offering

Sizes and configurations

Shiley™ flexible adult tracheostomy tubes

		Traditional Shiley™ adult tracheostomy tubes			
Size		**Disposable inner cannula**		**Reusable inner cannula**	
Jackson	ISO	Cuffed	Cuffless	Cuffed	Cuffless
4	6.5	4DCT	4DCFS	4LPC	4CFS
5	7.0				
6	7.5	6DCT	6DCFS	6LPC	6CFS
7	8.0				
8	8.5	8DCT	8DCFS	8LPC	8CFS
9	9.0				
10	10.0	10DCT	10DCFS	10LPC	10CFS

Enhanced Shiley™ flexible adult tracheostomy tubes				
Disposable inner cannula		**Inner cannula**	**Reusable inner cannula**	
Cuffed	Cuffless		Cuffed	Cuffless
4CN65H	4UN65H	4IC65	4CN65R	4UN65R
5CN70H	5UN70H	5IC70	5CN70R	5UN70R
6CN75H	6UN75H	6IC75	6CN75R	6UN75R
7CN80H	7UN80H	7IC80	7CN80R	7UN80R
8CN85H	8UN85H	8IC85	8CN85R	8UN85R
9CN90H	9UN90H	9IC90	9CN90R	9UN90R
10CN10H	10UN10H	10IC10	10CN10R	10UN10R

New expanded product size offerings

Shiley™ neonatal and pediatric tracheostomy tubes

	Traditional Shiley™ neonatal and pediatric tracheostomy tubes		Enhanced Shiley™ neonatal and pediatric tracheostomy tubes	
Type	**Cuffed**	**Cuffless**	**Cuffed**	**Cuffless**
Neonatal			2.5NCF	2.5NEF
		3.0NEO	3.0NCF	3.0NEF
		3.5NEO	3.5NCF	3.5NEF
		4.0NEO	4.0NCF	4.0NEF
		4.5NEO	4.5NCF	4.5NEF
Pediatric			2.5PCF	2.5PEF
		3.0PED	3.0PCF	3.0PEF
		3.5PED	3.5PCF	3.5PEF
	4.0PDC	4.0PED	4.0PCF	4.0PEF
	4.5PDC	4.5PED	4.5PCF	4.5PEF
	5.0PDC	5.0PED	5.0PCF	5.0PEF
	5.5PDC	5.5PED	5.5PCF	5.5PEF
Pediatric – long	5.0PLC	5.0PDL	5.0PLCF	5.0PELF
	5.5PLC	5.5PDL	5.5PLCF	5.5PELF
	6.0PLC	6.0PDL	6.0PLCF	6.0PELF
	6.5PLC	6.5PDL	6.5PLCF	6.5PELF

New expanded product size offerings

For use by tracheostomy care personnel. The tracheostomy tube and obturator are sterile, single-use patient 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 IFU for detailed usage and troubleshooting instructions.

1. Based on internal testing comparing the Shiley™ flexible adult tracheostomy tube with TaperGuard™ cuff to the Shiley™ DCT tracheostomy tube cuffed. Data on file.
2. Internal testing results. Athlone 2013. Results reflect measurements taken for size 7.5 Shiley™ flexible adult tracheostomy tube compared to the Shiley™ 6DCT tracheostomy tube at 20 cm H_2O. Data on file.
3. Internal benchtop testing results. Athlone 2013. Results reflect testing the Shiley™ flexible adult tracheostomy tube with TaperGuard™ cuff, disposable inner cannula at 20 cm H_2O versus the Shiley™ DCT tracheostomy tube with disposable Inner cannula at 25 cm H_2O.
4. Mullins JB, Templer JW, Kong J, Davis WE, Hinson J Jr. Airway resistance and work of breathing in tracheostomy tubes. *Laryngoscope*.1993;103(12):1367–1372.
5. Based on internal testing. Comparative ventilator air leak test performed using the Shiley™ 4.0PCF and 6.5PLCF pediatric tracheostomy tubes with taper-shaped cuff vs. predicate Shiley™ 4.0PDC and 6.5PLC pediatric tracheostomy tubes with barrel-shaped cuff.

6135 Gunbarrel Avenue
Boulder, CO 80301
800.635.5267
medtronic.com/covidien

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