

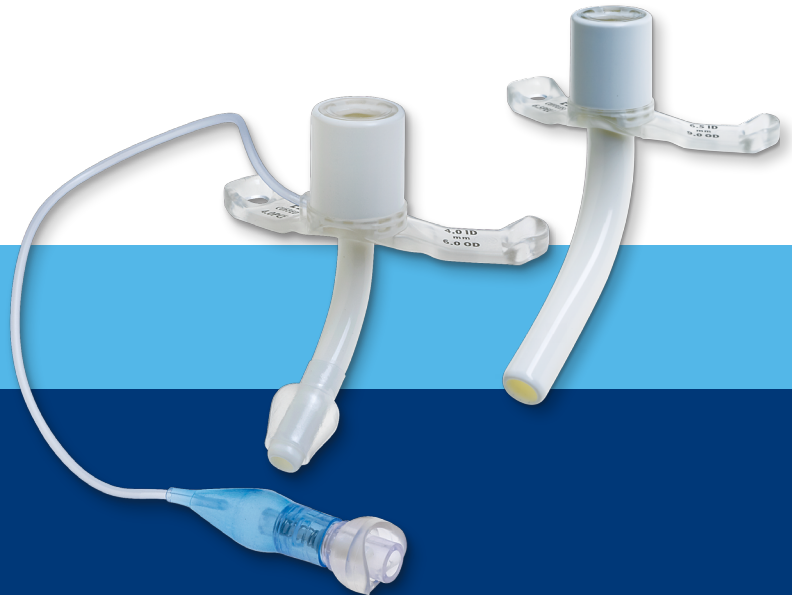


# New Shiley™ neonatal and pediatric tracheostomy solutions, a clinician-inspired solution



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C O N T E N T

# Shiley™ tracheostomy products enhance the patient experience through clinician-inspired solutions that meet patient-specific needs.

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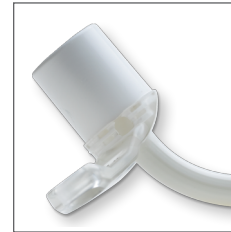
- I. Supporting Patient Comfort
- II. Improved Seal
- III. Infection Control Support
- IV. Significant Expansion of Styles



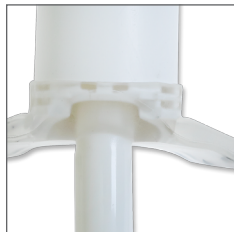
## Design enhancements based on extensive clinician input



**1** Flange variations for neonatal or pediatric patients.



**3** Trach tie recess facilitates the placement of securing devices without pinching the patient's skin.



**2** Comfort recess behind the connector to help reduce inferior stoma irritation.



**4** Clear flange allows visualization of skin below.

## IMPROVED SEAL

## A new tool to help manage ventilator-dependent patients

### The low-profile, low-pressure TaperGuard™ cuff

- Significantly improves management of airway leak at pressures below 25 cm H<sub>2</sub>O<sup>1</sup>
- Reduces fluid leak by an avg of 77% at intra cuff pressures of 20 cm H<sub>2</sub>O<sup>2</sup>
- Reduces removal force by 30% thereby reducing the potential for stoma damage during removal<sup>3</sup>



## Can you be sure that a cleaned tracheostomy tube isn't still carrying bacteria or biofilm?

Bacterial colonization of airway devices is implicated in the development of ventilation-associated pneumonia,<sup>4</sup> the main source of morbidity and mortality in patients receiving ventilator support.<sup>5</sup>

Recent studies have suggested that colonization of tracheostomy tubes with bacterial biofilms may be implicated in the local wound complications frequently observed in patients with tracheostomies.<sup>6</sup>

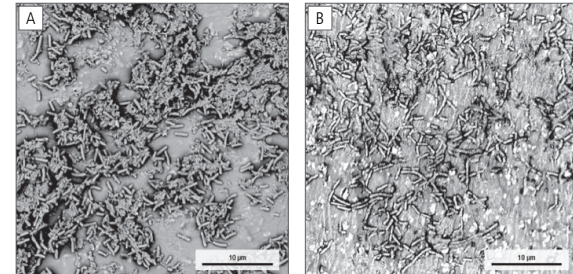


Figure 1. Scanning electron micrographs of a polyvinyl chloride tracheostomy tube after exposure to human plasma and culture with *Pseudomonas aeruginosa* for 7 days. A, Before cleaning; B, after cleaning.<sup>a</sup>

<sup>a</sup> Figure from Silva, Ojano-Dirain, Antonelli<sup>6</sup>

(The following permission statement is not part of the above Figure 1.) Data from Silva RC, Ojano-Dirain CP, Antonelli PJ. Effectiveness of pediatric tracheostomy tube cleaning. *Arch Otolaryngol Head Neck Surg.* 2012;138(3):251-256. Copyright © 2013 American Medical Association. All rights reserved.)

## Convenient, sterile packaging for bedside tracheostomy tube changes

Recent research has demonstrated the presence of persistent bacterial biofilms on tracheostomy tubes, which could put patient health and safety at risk.<sup>4</sup>

### The solution: Use a new sterile tube

The cuffless Shiley neonatal and pediatric tracheostomy tubes are now available in a convenient four-pack, disposable bedside tray. This enhanced tray design provides a sterile product in each pack to make it easy for the clinician to access a new tube and give the patient a “clean start” with every tracheostomy tube change.



## ORDERING INFORMATION

### Pediatric Tracheostomy Tubes

Product SKU	4-Pack Product SKU*	Description	I.D.	O.D.	Length
2.5PEF	N/A	Pediatric Tracheostomy Tube Cuffless	2.5 mm	4.2 mm	39 mm
3.0PEF	3.0PEF-P		3.0 mm	4.8 mm	39 mm
3.5PEF	3.5PEF-P		3.5 mm	5.4 mm	40 mm
4.0PEF	4.0PEF-P		4.0 mm	6.0 mm	41 mm
4.5PEF	4.5PEF-P		4.5 mm	6.7 mm	42 mm
5.0PEF	5.0PEF-P		5.0 mm	7.3 mm	44 mm
5.5PEF	5.5PEF-P		5.5 mm	7.9 mm	46 mm
5.0PELF	N/A		Extra Long Pediatric Tracheostomy Tube Cuffless	5.0 mm	7.3 mm
5.5PELF	N/A	5.5 mm		7.9 mm	52 mm
6.0PELF	N/A	6.0 mm		8.5 mm	54 mm
6.5PELF	N/A	6.5 mm		9.0 mm	56 mm
2.5PCF	N/A	Pediatric Tracheostomy Tube with TaperGuard™ Cuff	2.5 mm	4.2 mm	39 mm
3.0PCF	N/A		3.0 mm	4.8 mm	39 mm
3.5PCF	N/A		3.5 mm	5.4 mm	40 mm
4.0PCF	N/A		4.0 mm	6.0 mm	41 mm
4.5PCF	N/A		4.5 mm	6.7 mm	42 mm
5.0PCF	N/A		5.0 mm	7.3 mm	44 mm
5.5PCF	N/A	Extra Long Pediatric Tracheostomy Tube with TaperGuard™ Cuff	5.5 mm	7.9 mm	46 mm
5.0PLCF	N/A		5.0 mm	7.3 mm	50 mm
5.5PLCF	N/A		5.5 mm	7.9 mm	52 mm
6.0PLCF	N/A		6.0 mm	8.5 mm	54 mm
6.5PLCF	N/A		6.5 mm	9.0 mm	56 mm

### Neonatal Tracheostomy Tubes

Product SKU	4-Pack Product SKU*	Description	I.D.	O.D.	Length
2.5NEF	N/A	Neonatal Tracheostomy Tube Cuffless	2.5 mm	4.2 mm	30 mm
3.0NEF	3.0NEF-P		3.0 mm	4.8 mm	30 mm
3.5NEF	3.5NEF-P		3.5 mm	5.4 mm	32 mm
4.0NEF	4.0NEF-P		4.0 mm	6.0 mm	34 mm
4.5NEF	4.5NEF-P		4.5 mm	6.7 mm	36 mm
2.5NCF	N/A	Neonatal Tracheostomy Tube with TaperGuard™ Cuff	2.5 mm	4.2 mm	30 mm
3.0NCF	N/A		3.0 mm	4.8 mm	30 mm
3.5NCF	N/A		3.5 mm	5.4 mm	32 mm
4.0NCF	N/A		4.0 mm	6.0 mm	34 mm
4.5NCF	N/A		4.5 mm	6.7 mm	36 mm

#### References

1. Internal bench 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.
2. Internal bench testing. Comparative fluid seal 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.
3. Internal bench testing. Comparative removal force test performed using the Shiley™ 4.0PCF and 6.5PLCF pediatric tracheostomy tubes with taper-shaped cuff vs. the predicate Shiley™ 4.0PDC and 6.5PLC pediatric tracheostomy tubes with barrel-shaped cuff.
4. Adair CG, Gorman SP, Feron BM, et al. Implications of endotracheal tube biofilm for ventilator-associated pneumonia. *Intensive Care Med.* 1999;25(10):1072-1076.
5. Warren DK, Shukla SJ, Olsen MA, et al. Outcome and attributable cost of ventilator-associated pneumonia among intensive care unit patients in a suburban medical center. *Crit Care Med.* 2003;31(5):1312-7.
6. Silva R, Ojano-Dírain C, Antonelli P. Effectiveness of Pediatric Tracheostomy Tube Cleaning. *Arch Otolaryngol Head Neck Surg.* 2012; 138(3):251-6.

\*4-pack only available in the U.S.

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