Medtronic

Shiley[™] pediatric oral/nasal endotracheal tubes

Designed for your smallest patients

Kids are not little adults. That's why they need endotracheal tube solutions customized to their unique anatomy.

What makes pediatric airways unique

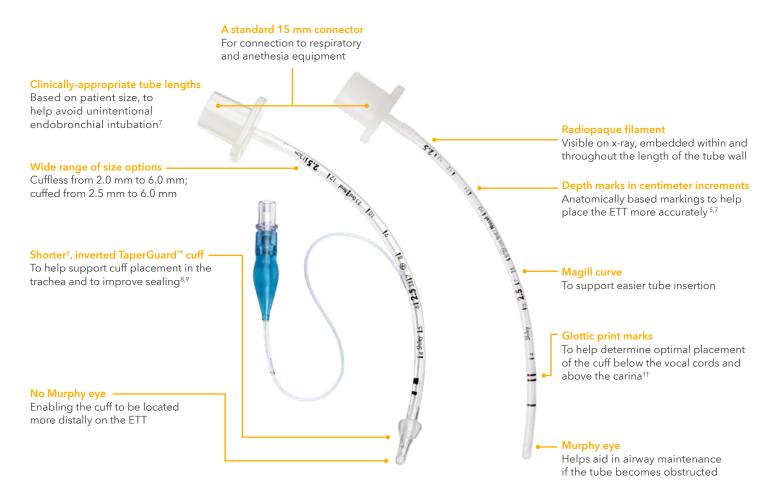
Compared to adult anatomy, children have a floppier epiglottis and vocal cords that slant upward. They also have a funnel-shaped larynx, which can be difficult to navigate around, especially due to the narrowing of the cricoid cartilage.¹

Those factors make using scaled-down versions of adult endotracheal tubes (ETTs) on children risky because doing so can result in airway damage, oxygen deprivation, and ventilation complications.^{1,2}

15% of intubation procedures leave pediatric patients hoarse or with stridor³ 30% of pediatric patients require multiple intubation attempts³

Help better secure pediatric airways

The Shiley[™] pediatric oral/nasal endotracheal tube (ETT) with TaperGuard[™] cuff technology and the Shiley[™] pediatric oral/nasal endotracheal tubes (ETTs), cuffless, are designed with a number of features that are intended to meet the needs and improve the margin of safety for your smaller patients.

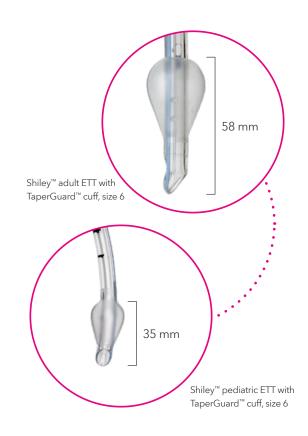


Advantages of no Murphy eye on the cuffed configuration

ETT placement in pediatric patients has a small margin of error, due to the anatomical shortness of the tracheal region. Located at the distal tip, the Murphy eye presents a challenge for cuff placement on smaller ETTs. If the cuff is placed too high, it can lead to tube misplacement and tracheal damage.

Removing the Murphy eye on the cuffed Shiley[™] pediatric oral/nasal ETT improves the margin of safety by:^{2,4}

- Allowing the TaperGuard[™] cuff to be located closer to the tube tip,[†] to help ensure the cuff is reliably placed within the trachea
- Preventing the cuff from pressuring the laryngeal wall
- Reducing the risk of endobronchial intubation





Benefits of the TaperGuard[™] cuff

Compared to traditional barrel-shaped cuffs, the thinwalled, taper-shaped, low-volume, low-pressure (LVLP) TaperGuard[™] cuff:^{8,9}

- Uses less material, which helps ease insertion past the vocal cords
- Requires less volume to fill the cuff
- Improves sealing
- Decreases aspirations
- Reduces cuff pressure on tracheal tissues
- Helps ease insertion past the cricoid due to the shorter cuff-to-tip distance

Low-pressure cuffs also have similarly low rates of postextubation complications compared to uncuffed tubes.¹¹



Benefits of a hooded tip

Standard ETTs have a flat, beveled tip. Sizes 2.5 mm and 3.0 mm of the Shiley[™] pediatric oral/nasal ETT with TaperGuard[™] cuff feature a hooded tip to provide additional protection in the smallest airways.

Hooded tips are created via a secondary mold step to round the end of the beveled edge. The rounded, beveled shape of the hooded tip can help make it easier for the tube to pass through the vocal cords, which can decrease trauma during intubation.¹²

Benefits of DEHP-free material

Di(2- ethylhexyl) phthalate (DEHP) is a manufactured chemical commonly added to plastics to make them flexible.¹⁰ Children absorb greater amounts – and metabolize and retain larger amounts – of MEHP, the toxic metabolite of DEHP.¹⁰

Because children may be more sensitive to the adverse effects of DEHP compared to adults, DEHP exposure may negatively impact pediatric patients in the following ways:¹⁰

- Contribute to the development of hyaline membrane disease and necrotizing enterocolitis
- Adversely affect male reproductive tract development
- Damage the liver and lungs

The Shiley[™] pediatric ETT is made with latex-free, non-DEHP PVC material, which softens at body temperature and molds to the airway.



Ordering information

Shiley™ pediatric oral/nasal endotracheal tube with TaperGuard™ cuff						
CFN to order	CFN on packaging	l.D. (mm)	O.D. (mm)	Length (mm)	Cuff Ø (mm)	
86125-RI	86125	2.5	3.8	140	8.0	
86130-RI	86130	3.0	4.4	160	9.1	
86135-RI	86135	3.5	5.0	180	10.1	
86140-RI	86140	4.0	5.7	200	11.5	
86145-RI	86145	4.5	6.3	220	12.3	
86150-RI	86150	5.0	6.9	240	14.2	
86155-RI	86155	5.5	7.5	270	15.6	
86160-RI	86160	6.0	8.2	280	17.2	

Shiley™ pediatric oral/nasal endotracheal tube, cuffless

CFN	l.D. (mm)	O.D. (mm)	Length (mm)		
86232	2.0	2.9	130		
86233	2.5	3.6	140		
86234	3.0	4.2	160		
86235	3.5	4.9	180		
86236	4.0	5.5	200		
86237	4.5	6.2	220		
86238	5.0	6.8	240		
86239	5.5	7.5	270		
86240	6.0	8.2	280		



Scan the QR code to learn more. Or contact your local Medtronic representative.

††As indicated by ISO 5361:2016.

†Compared to the adult version.

‡Compared to traditional barrel-shaped cuffs.

§Compared to the Hi-Lo high volume, low-pressure cuff.

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