

Updated Guide to the Size of Paediatric Tracheostomy Tubes, Bronchoscopes & Endotracheal Tubes

All dimensions in mm		Preterm – 1 month		1 – 6 months	6 – 18 months	18 mths – 3 years	3 – 6 years	6 – 9 years	9 – 12 years	12+ years
Cricoid (AP diameter)			3.6 – 4.8	4.8 – 5.8	5.8 – 6.5	6.5 – 7.4	7.4 – 8.2	8.2 – 9.0	10.7	10.7
Trachea (transverse diameter)		5		5 – 6	6 – 7	7 – 8	8 – 9	9 – 10	10 – 13	13
Endotracheal tube (Portex®)	Size = ID	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0
	OD	3.4	4.2	4.8	5.4	6.2	6.8	8.2	9.6	10.8
Bronchoscope (Storz)	Size = ID		2.5	3.0	3.5	4.0	4.5	5.0	6.0	
	ID		3.5	4.3	5.0	6.0	6.6	7.1	7.5	
	OD		4.2	5.0	5.7	6.7	7.3	7.6	8.2	
Bivona® Uncuffed/ Fome-Cuf®/ Aire-Cuf®/TTS™ cuff ranges	Size = ID	2.5	3.0	3.5	4.0	4.5	5.0	5.5		
	OD	4.0	4.7	5.3	6.0	6.7	7.3	8.0		
	Shaft length Neo	30	32	34	36					
	Shaft length Ped	38	39	40	41	42	44	46		
Bivona® Flexend™ OD as above	Size = ID	2.5	3.0	3.5	4.0	4.5	5.0	5.5		
	Shaft length – Neo	30	32	34	36					
	Proximal length – Neo	20	20	20	15					
	Shaft length – Ped	38	39	40	41	42	44	46		
	Proximal length – Ped	20	20	20	30	30	30	30		
Bivona® Hyperflex™	Size = ID	2.5	3.0	3.5	4.0	4.5	5.0	5.5		
	Max usable length	55	60	65	70	75	80	85		
Shiley™ *Ped cuffed tube available (PDC)	Size = ID		3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
	OD		4.5	5.2	5.9	6.5	7.1	7.7	8.3	9.0
	Length Neo		30	32	34	36				
	Length Ped		39	40	41*	42*	44*	46*		
	Length Ped – Long (PDL)						50*	52*	54*	56*
Great Ormond Street	Size = ID		3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0
	OD		4.5	5.0	6.0	6.7	7.5	8.0	8.7	10.7
Sheffield (Metal)	French gauge		12-14	16	18	20	22	24	26	
	ID (mm)		2.9-3.6	4.2	4.9	6.0	6.3	7.0	7.6	
Adult Portex® Blue Line Ultra® Cuffed and/or fenestrated	Size = ID								6.0	7.0
	OD								9.2	10.5
	Length								64.5	70
Adult Bivona® Cuffed and/or fenestrated	Size = ID						5.0		6.0	7.0
	OD (TTS)						7.4		8.8	10.0
	Length (TTS)						60		70	80
	Max usable length (Hyperflex)								110	120

NB – Length measurements cannot be totalled to give suction length. This should be measured using a suction catheter for each tracheostomy tube.

AP – anteroposterior; ID = inner diameter, OD = outer diameter

Reproduced from:

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