

## Tracheal Tubes - A Guide To Size and Length

	Tracheal Tube ID (mm)	Tracheal Tube OD (mm)	Oral length (cm)	Nasal length (cm)	Recommended Suction Catheter size		
					F	(mm)	
<b>NEONATES</b>	0.7-1.0kg	2.5	3.4	7.5	9.0	5	1.67
	1.1-1.5kg	2.5	3.4	8.0	9.5	5	1.67
	1.6-2.0kg	3.0	4.2	8.5	10.0	6	2.0
	2.1-2.5kg	3.0	4.2	9.0	10.5	6	2.0
	2.6-3.0kg	3.0	4.2	9.5	11.0	6	2.0
	3.1kg+	3.0	4.2	10.5	13.0	6	2.0
<b>PAEDIATRICS</b>	0-3 months	3.5	4.8	11.0	14.0	6-8	2.0-2.67
	3-6 months	4.0	5.4	12.0	15.0	8	2.67
	6-12 months	4.5	6.2	12.5	15.5	8	2.67
	2 years	5.0	6.8	13.0	16.0	10	3.33
	3 years	5.0	6.8	13.5	16.5	10	3.33
	4 years	5.5	7.4	14.0	17.0	10	3.33
	5 years	5.5	7.4	14.5	17.5	10	3.33
	6 years	6.0	8.2	15.0	18.0	10	3.33
	7 years	6.0	8.2	15.5	18.5	10	3.33
	8 years	6.5	8.8	16.0	19.0	10	3.33
	9 years	6.5	8.8	16.5	19.5	10	3.33
	10 years	7.0	9.6	17.0	20.0	10	3.33
	11 years	7.0	9.6	17.5	20.5	10	3.33
	12 years	7.5	10.2	18.0	21.0	12	4.0
	13 years	7.5	10.2	18.5	21.5	12	4.0
14 years	8.0	11.0	21.0	24.0	12	4.0	
15 years	8.0	11.0	21.0	24.0	12	4.0	
<b>ADULTS</b>	Adult Female	7.5	10.2	21.0	24.0	12	4.0
	Adult Female	8.0	11.0	21.0	24.0	12	4.0
	Adult Male	8.5	11.6	22.0	25.0	12	4.0
	Adult Male	9.0	12.2	22.0	25.0	14	4.67
	Adult Male	9.5	13.0	23.0	26.0	14	4.67

**NOTES**

- (1) The dimensions given for oral/nasal cut lengths are intended as a guide only. Final selection is the responsibility of the clinician and will depend on anatomy and the design of the tracheal tube.
- (2) This chart makes no recommendation for the selection of suction catheters for use with tracheal tubes having an internal diameter of less than 2.5mm.
- (3) Care must be taken when suctioning paediatric and neo-natal tracheal tubes in order to ensure smooth insertion and removal of the suction catheter.
- (4) External diameter dimensions only apply to Siliconised and Clear PVC tracheal tubes. Ivory PVC Blue Line tracheal tubes have a larger external diameter.

**REFERENCES**

- [1] Singh NC et al, Physiological responses to endotracheal and oral suctioning in paediatric patients: the influence of endotracheal tube sizes and suction pressures. 1991; 2: 345-350
- [2] A Synopsis of Anaesthesia by R.S. Atkinson, G.B. Bushman and J. Alfred Lee, Publishers John Wright. 1993

Portex® Cuff Resting Diameter (mm)

Profile Soft-Seal® Cuff	Profile Cuff	Barrel Cuff
17	15	22
17	15	22
17	17	22
17	17	22
23	19	24
23	19	24
23	20	24
23	20	24
30	22	26
30	22	26
30	23	26
30	23	26
30	25	28
30	25	28
30	23	26
30	25	28
30	26	28
30	28	30
30	30	30

This chart recommends the size of open suction catheter that should be used with Portex® Tracheal Tubes. When using a Closed Suction System, the recommended catheter size will be stated in the manufacturers instructions for use.

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