

Supporting Information

Effectiveness of substantial shortening of the endotracheal tube for decreasing airway resistance and increasing tidal volume during pressure-controlled ventilation in pediatric patients: a prospective observational study

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Table Characteristics of the Microcuff™ endotracheal tubes used in this study.

Internal diameter (mm)	3.0	3.5	4.0	4.5	5.0
Original length (cm)	19.5	21	23	25	27
Tube element length (cm)	17	18.5	20.5	22.5	24.5
K ₁ (cmH ₂ O·sec/L)	6.6	7.9	6.6	1.2	3.5
K ₂ (cmH ₂ O·sec ² /L ²)	378	172	82	62	30

ID, inner diameter; K₁ and K₂ indicate coefficient of approximate equation (Pressure Gradient = K₁ × [flowrate] + K₂ × [flowrate]²) obtained from the laboratory measurements.