

SUPPLEMENTARY MATERIAL

Table 2: Aerosol delivery from DTVs. Data shows the effects of the nebuliser type, nebuliser location within the respiratory circuit and the effects of passive humidification on the potential lung dose in a simulated intubated adult patient type. P-values are included in the table to highlight whether there was a statistically significant difference in the dose, with p-values ≤ 0.05 considered significant.

Patient Type	Nebuliser	Position	HME	Lung dose range (%)	P-Value
Adult	VMN	Proximal	N	25.19 – 34.15	0.000
		Distal		19.22 – 26.03	
		Proximal	Y	32.37 – 40.43	0.000
		Distal		23.63 – 31.63	
	Proximal	Y	32.37 – 40.43	0.000	
		N	25.19 – 34.15		
	JN	Proximal	N	3.14 – 8.92	0.021
				Distal	
		Proximal	Y	5.60 – 9.91	0.000
				Distal	
Proximal		Y	5.60 – 9.91	0.002	
		N	3.14 – 8.92		

Table 3: Aerosol delivery from DTVs. Data shows the effects of the nebuliser type, nebuliser location within the respiratory circuit and the effects of passive humidification on the potential lung dose in a simulated intubated paediatric patient type. P-values are included in the table to highlight whether there was a statistically significant difference in the dose, with p-values ≤ 0.05 considered significant.

Patient Type	Nebuliser	Position	HME	Lung dose range (%)	P-Value
Paediatric	VMN	Proximal	N	8.12 – 10.89	0.001
		Distal		5.23 – 7.34	
		Proximal	Y	8.18 – 11.02	0.008
		Distal		8.06 – 10.46	
	Proximal	Y	8.18 – 11.02	0.498	
		N	8.12 – 10.89		
	JN	Proximal	N	2.15 – 3.82	0.000
				Distal	
		Proximal	Y	2.34 – 4.00	0.000
				Distal	
Proximal		Y	2.34 – 4.00	0.226	
		N	2.15 – 3.82		