

Table S7. Recorded Ventilator Parameters for Varying Inspiratory Pressures in Two Subject Post-Hoc Study

Ventilator Parameter	Pressures (IPAP/EPAP)	C6 Hamilton Ventilator Mean (SD)	V60 Phillips Ventilator Mean (SD)
Tidal Volume (Litres)	5/5	1.5 (0.5)	1.2 (0.1)
	10/10	1.6 (0.5)	1.5 (0.2)
	15/10	2.0 (0.4)	1.7 (0.2)
	20/10	2.4 (0.4)	1.7 (0.1)
	25/10	2.9 (0.6)	2.2 (0.2)
	20/10 EXE	2.8 (0.5)	2.3 (0.5)
	Overall, mean (SD)	2.2 (0.7)	1.8 (0.5)
	Difference in mean (%)	24.6 (p<0.001)	
Respiratory Rate (BPM)	5/5	16 (3.5)	13.0 (1.8)
	10/10	15.3 (3.6)	12.2 (1.5)
	15/10	14.2 (2.3)	13.0 (5.7)
	20/10	17.2 (5.8)	14.7 (2.3)
	25/10	13.7 (1.5)	10.7 (3.8)
	20/10 EXE	16.5 (1.4)	18.8 (2.9)
	Overall, mean (SD)	15.5 (3.4)	13.7 (4.0)
	Difference in mean (%)	13.1 (p=0.03)	
Peak Inspiratory (Flow L/min)	5/5	73.7 (14.3)	52.4 (5.8)
	10/10	82.9 (31.8)	73.2 (4.6)
	15/10	94.8 (28.9)	113.6 (10.2)
	20/10	133.2 (33.2)	147.1 (10.4)
	25/10	174.3 (17.8)	175.4 (9.4)
	20/10 EXE	179.7 (8.9)	187.7 (26.0)
	Overall, mean (SD)	123.1 (48.6)	124.9 (52.2)
	Difference in mean (%)	-1.4 (p=0.71)	
Peak Expiratory (Flow L/min)	5/5	34.4 (10.8)	33.4 (5.4)
	10/10	31.6 (5.7)	40.5 (8.6)
	15/10	40.3 (7.6)	50.1 (11.5)
	20/10	59.1 (10.4)	60.3 (10.7)
	25/10	67.4 (13.6)	73.0 (16.2)
	20/10 EXE	99.7 (16.8)	101.0 (18.5)
	Overall, mean (SD)	55.4 (26.2)	59.7 (25.6)
	Difference in mean (%)	-7.2 (p=0.04)	
Minute Volume (L/min)	5/5	23.2 (4.4)	15.4 (0.9)
	10/10	23.6 (6.6)	18.1 (3.2)
	15/10	28.6 (7.5)	22.0 (8.8)
	20/10	39.7 (8.4)	25.5 (3.3)
	25/10	38.9 (5.9)	23.1 (9.3)
	20/10 EXE	46.0 (9.6)	43.1 (3.1)
	Overall, mean (SD)	33.3 (11.1)	24.5 (10.5)
	Difference in mean (%)	36.0 (p<0.001)	

MV Leak † (L/min)	5/5	1.8 (0.7)	
	10/10	2.2 (0.7)	
	15/10	1.6 (1.8)	
	20/10	3.3 (1.4)	
	25/10	2.2 (2.0)	
	20/10 EXE	1.0 (0.3)	
	Overall, mean (SD)	2.0 (1.4)	
Total Leak § (L/min)	5/5		20.2 (3.8)
	10/10		25.5 (2.4)
	15/10		24.0 (2.5)
	20/10		24.0 (6.2)
	25/10		26.5 (7.7)
	20/10 EXE		30.5 (9.1)
	Overall, mean (SD)		25.1 (6.3)
ASI (%) †	Overall, mean (SD)	29.8 (18.9)	1.0 (2.4)