

**Supplementary Table 1. Clinical characteristics of study patients**

Variable	Total (N = 606)	Successful extubation (N = 446)	Failed extubation (N = 160)	<i>p</i> value
At the day of extubation				
Ventilator mode before the extubation				0.32
Assist-control ventilation	15 (2.5)	10 (2.2)	5 (3.1)	
Pressure-support ventilation	409 (67.5)	308 (69.1)	101 (63.1)	
Continuous positive airway pressure	182 (30.0)	128 (28.7)	54 (33.8)	
Pressure-support level (cmH <sub>2</sub> O)	5 [0–7]	5 [0–7]	5 [0–7]	0.77
Positive end-expiratory pressure (cmH <sub>2</sub> O)	5 [5–6]	5 [5–6]	5 [5–6]	0.004
Tidal volume				
mL	456 ± 155	462 ± 158	439 ± 146	0.10
mL/kg	8.0 ± 2.5	8.1 ± 2.5	7.8 ± 2.6	0.22
FiO <sub>2</sub>	0.3 [0.3–0.4]	0.3 [0.2–0.3]	0.3 [0.3–0.4]	< 0.001
Bicarbonate (mmol/L)	26.4 ± 3.9	26.3 ± 3.8	26.5 ± 4.4	0.72
Lactate (mmol/L)	1.5 [1.1–2.2]	1.5 [1.1–2.1]	1.7 [1.2–2.5]	0.01
Type of SBT				> 0.99
Continuous positive airway pressure	56 (9.2)	41 (9.2)	15 (9.4)	
T-piece or HFNO	482 (79.5)	355 (79.6)	127 (79.4)	
Low level of pressure support	21 (3.5)	16 (3.6)	5 (3.1)	
No SBT	47 (7.8)	34 (7.6)	13 (8.1)	
Duration of SBT (min)	42 [31–105.5]	42 [31–105]	43 [31–116.5]	0.66
Reconnection to ventilator before extubation	312 (51.5)	238 (53.4)	74 (46.2)	0.15

Values are presented as frequency (%), median [interquartile range], or mean ± standard deviation as appropriate.

FiO<sub>2</sub>, fraction of inspired oxygen; SBT, spontaneous breathing trial; HFNO, high flow nasal oxygen.