

Table 1. Clinical characteristics of the patients

	Patients						
	1	2	3	4	5	6	7
Clinical characteristics							
Age (years)	47	69	49	49	76	54	65
Gender	Male	Female	Male	Female	Male	Male	Female
Use of NMBA	Yes	No	Yes	No	No	Yes	No
Haemodynamic impairment	No	No	No	No	No	No	No
Tracheostomy	No	Yes	No	No	No	No	No
Ventilator*							
Beginning	Servo-i	Servo-i	EVITA 4	EVITA 4	Servo-i	EVITA 4	Servo-i
Hour 1	VEMO 150	VIVO 50	VEMO 150	VIVO 50	VIVO 50		VEMO150
Hour 2	VEMO 150	VIVO 50	VEMO 150	VIVO 50	VIVO 50		VEMO150
Hour 3	VEMO 150	VIVO 50		VIVO 50	VIVO 50	VEMO 150	VEMO150
Finish	Servo-i	Servo-i	EVITA 4	EVITA 4	Servo-i	EVITA 4	Servo-i
Ventilatory mode†							
Beginning	AutoFlow	PSV	AutoFlow	PSV	PSV	AutoFlow	PCV
Hour 1	VCV	PSV	VCV	PSV	PSV		PCV
Hour 2	VCV	PSV	VCV	PSV	PSV		PCV
Hour 3	VCV	PSV		PSV	PSV	VCV	PCV
Finish	AutoFlow	PSV	AutoFlow	PSV	PSV	AutoFlow	PCV
Tidal volume (mL)							
Beginning	480	400	380	340	620	440	420
Hour 1	480	420	380	350	540		410
Hour 2	480	405	380	360	500		380
Hour 3	480	410		370	550	440	420
Finish	480	400	380	380	640	440	420
Respiratory rate (mpm)							
Beginning	26	22	26	28	25	28	35
Hour 1	26	22	26	26	24		35
Hour 2	26	22	26	26	24		35
Hour 3	26	22		25	24	28	35
Finish	26	22	26	28	22	28	35
Pmax (cmH₂O)							
Beginning	26	20	33	14	18	31	34
Hour 1	26	20	33	14	18		34
Hour 2	27	20	32	14	18		34
Hour 3	26	20		14	18	26	34
Finish	27	20	33	14	18	30	34
PEEP (cmH₂O)							
Beginning	10	8	15	8	12	10	8
Hour 1	10	8	15	8	12		8
Hour 2	10	8	15	8	12		8
Hour 3	10	8		8	12	10	8
Finish	10	8	15	8	12	10	8
FiO₂ (%)							
Beginning	70%	40%	70%	50%	65%	60%	80%
Hour 1	70%	40%	70%	53%	68%		85%

Hour 2	70%	40%	72%	52%	68%		86%
Hour 3	70%	40%		52%	67%	48%	83%
Finish	70%	40%	100%	50%	65%	50%	80%
Oxygen flow (L/min)							
Beginning							
Hour 1	16	8	16	12	20	15	18
Hour 2	16	8	16	12	20		16
Hour 3	16	8		12	20	15	15
Finish							
Pao₂ (mmHg)							
Beginning							
Hour 1	96.5	84.0	74.4	79.2	61.9	93.0	62.4
Hour 2	89.4	87.9	79.0	75.2	77.0		58.1
Hour 3	91.7	80.4	69.7	85.8	79.7		59.6
Hour 3	85.8	94.1		78.1	85.2	84.3	53.3
Finish	102.6	75.5	61.0	71.5	79.6	100.5	56.7
Paco₂ (mmHg)							
Beginning							
Hour 1	58.1	44.3	58.4	65.4	35.5	52.3	65.8
Hour 2	55.5	37.5	62.9	64.4	34.5		63.7
Hour 3	46.5	43.9	72.5	67.6	36.0		57.0
Hour 3	50.4	44.3		70.6	37.1	59.2	59.9
Finish	57.0	37.3	64.4	65.3	38.6	53.2	45.1
pH							
Beginning							
Hour 1	7.40	7.34	7.37	7.32	7.43	7.34	7.40
Hour 2	7.42	7.35	7.32	7.34	7.44		7.43
Hour 3	7.44	7.34	7.31	7.31	7.42		7.43
Hour 3	7.42	7.34		7.32	7.43	7.29	7.44
Finish	7.40	7.39	7.33	7.34	7.42	7.27	7.47
Bicarbonate (mmol/L)							
Beginning							
Hour 1	32.5	22.9	32.9	32.9	23.4	27.6	40.5
Hour 2	33.4	20.6	31.9	34.2	23.0		41.5
Hour 3	29.9	22.5	35.5	33.1	23.1		37.9
Hour 3	30.3	23.1		35.5	23.8	27.8	40.1
Finish	32.5	22.1	33.4	34.9	23.4	23.9	39.1

FiO₂ = inspired fraction of oxygen; mpm = movements per minute; NMBA = neuromuscular blocking agent; Paco₂ = arterial partial pressure of carbon dioxide; Pao₂ = arterial partial pressure of oxygen; PEEP = positive end-expiratory pressure; Pmax = maximum airway pressure; PSV = pressure support ventilation; VCV = volume controlled ventilation. * EVITA 4 (Soma Tech), Servo-i (Getinge), VEMO 150 (EOVE), VIVO 55 (Breas). † AutoFlow (Dräger).