Supplementary Materials

Evaluation of a New Extracorporeal CO_2 Removal Device in an Experimental Setting

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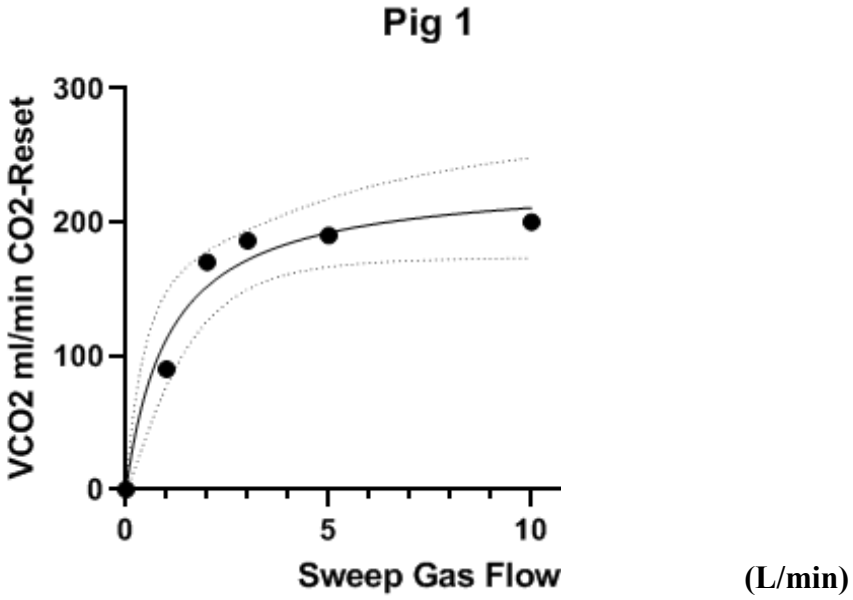

Figure S1. VCO_2 removal at different gas flow (Pig 1).

Table S1. Pig 1: main physiologic variables at baseline (Time 1) and at the beginning of the experiment (Time 2).

	Time 1	**Time 2**
Respiratory rate (breaths/min)	17	9
Tidal volume-pig (mL)	430	216
Minute ventilation (L/min)	7.31	1.94
Positive end-expiratory pressure (cmH_2O)	5	5
Compliance respiratory system (cmH_2O)	36	30
Respiratory system mechanical power (J/min)	10	1.80
Heart rate (beats/min)	65	70
Central venous pressure (mmHg)	6	6
Mean systemic arterial pressure (mmHg)	88	87
Arterial lactates (mmol/L)	0.90	0.88

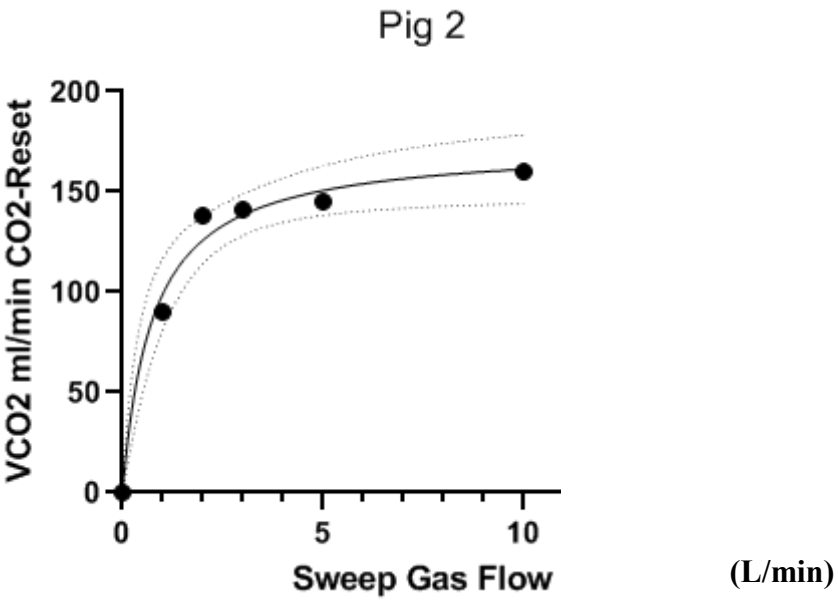

Figure S2. VCO_2 removal at different gas flow (Pig 2).

Table S2. Pig 2: main physiologic variables at baseline (Time 1) and at the beginning of the experiment (Time 2).

	Time 1	**Time 2**
Respiratory rate (breaths/min)	20	9
Tidal volume-pig (mL)	400	200
Minute ventilation (L/min)	8	1.8
Positive end-expiratory pressure (cmH_2O)	5	5
Compliance respiratory system (cmH_2O)	28	20
Respiratory system mechanical power (J/min)	13.5	1.92
Heart rate (beats/min)	73	77
Central venous pressure (mmHg)	8	9
Mean systemic arterial pressure (mmHg)	92	93
Arterial lactates (mmol/L)	1.20	1.35

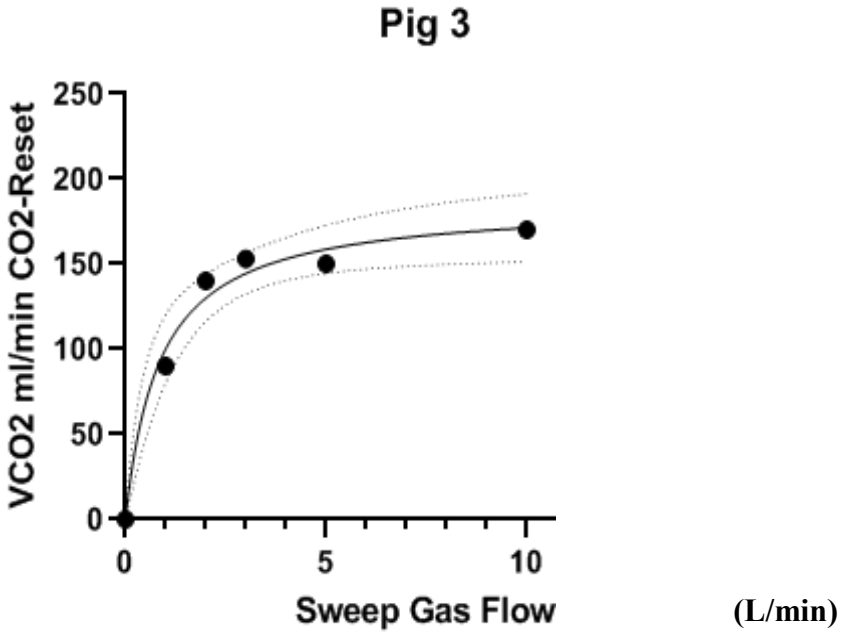

Figure S3. VCO_2 removal at different gas flow (Pig 3).

Table 3. Pig 3: main physiologic variables at baseline (Time 1) and at the beginning of the experiment (Time 2).

	Time 1	**Time 2**
Respiratory rate (breaths/min)	18	9
Tidal volume-pig (mL)	450	224
Minute ventilation (L/min)	12.18	2.02
Positive end-expiratory pressure (cmH_2O)	5	5
Compliance respiratory system (cmH_2O)	34	28
Respiratory system mechanical power (J/min)	12.18	1.9
Heart rate (beats/min)	85	81
Central venous pressure (mmHg)	10	10
Mean systemic arterial pressure (mmHg)	100	99
Arterial lactates (mmol/L)	1.60	1.55