Additional file 3. Characteristics and outcomes of 208 patients who failed a first spontaneous
breathing trial (SBT), according to the prevalence of weaning-induced cardiac ischemia (WiCI)

		WiCI	
	No	Yes	р
	(n=141)	(n=36)	
Age, year	66 (56-73)	70 (60-77)	0.147
Female sex	48 (34.0)	18 (50.0)	0.077
Body mass index, kg/m <sup>2</sup>	27 (22-32)	26 (23-30)	0.669
SAPS-II at admission	50 (40-63)	50 (35-64)	0.702
MacCabe score			0.606
0	75 (53.2)	22 (61.1)	
1	42 (29.8)	10 (278)	
2	24 (17.0)	4 (11.1)	
Comorbidities			
COPD	41 (29.1)	5 (13.9)	0.064
Restrictive lung disease	16 (11.3)	6 (16.7)	0.400
Obstructive sleep apnea syndrome	21 (14.9)	4 (11.1)	0.561
Asthma	2 (1.4)	0 (0.0)	>0.99
Current smoker	67 (47.5)	14 (38.9)	0.354
Quantification of cigarette smoking, pack-year	40 (26-55)	30 (20-50)	0.406
Central nervous system disease	15 (10.6)	4 (11.1)	>0.99
Peripheral neuropathy	11 (7.8)	1 (2.8)	0.464
Mental illness	8 (5.7)	1 (2.8)	0.688
Heart failure with preserved ejection fraction	21 (14.9)	4 (11.1)	0.561
Heart failure with reduced ejection fraction	26 (18.8)	2 (5.6)	0.059
Atrial fibrillation	26 (18.4)	9 (25.0)	0.378
Hypertension	71 (50.4)	24 (66.7)	0.080
Valvular heart disease	17 (12.1)	4 (11.1)	>0.99
Coronary disease	29 (20.6)	7 (19.4)	0.881
Pulmonary hypertension	12 (8.5)	0 (0.0)	0.129
Reason for intubation	12 (0.5)	0 (0.0)	0.12)
Coma	20 (14.2)	4(11.1)	0.788
Septic shock	25 (17.7)	4 (11.1)	0.338
COPD exacerbation	14 (9.9)	2 (5.6)	0.624
Pneumonia	39 (27.7)	8 (22.2)	0.510
Cardiogenic pulmonary edema	13 (9.2)	4 (11.1)	0.731
Cardiac arrest	8 (5.7)	8 (22.2)	0.005
Surgery	10 (7.1)	4 (11.1)	0.489
Others	10 (7.1) 11 (7.8)	2 (5.6)	>0.489
Events between ICU admission and inclusion	11 (7.0)	2 (3.0)	~0.39
Acute respiratory distress syndrome	62 (44.0)	10 (27.8)	0.078
Septic shock	76 (53.9)	15 (38.9)	0.108
Ventilator-associated pneumonia	34 (24.1)	10 (27.8)	0.108
Neuromuscular blockade	69 (49.3)	15 (42.9)	0.030
Atrial fibrillation	45 (31.9)	14 (38.9)	0.490
Corticosteroids	43 (31.9) 51 (36.2)	8 (22.2)	0.428
Time between admission and inclusion, days	7 (4-14)	8 (22.2) 6 (4-10)	0.113
Outcomes	/ (+-14)	0 (+-10)	0.014
	116 (02 2)	22 (01 7)	0 1 2 0
Success weaning (within 7 days)	116 (82.3)	33 (91.7)	0.168
Tracheotomy Vantilator free days at day 28 days	7 (5.0)	1(2.8)	>0.99
Ventilator-free days at day-28, days	16 (0-21)	18 (3-22)	0.272
Length of stay in ICU, days	14 (10-23)	12 (9-27)	0.838
Death in ICU SBT Spontaneous breathing trial, SAPS Simplified A	33 (23.4)	5 (13.9)	0.215

SBT Spontaneous breathing trial, SAPS Simplified Acute Physiologic score, COPD chronic obstructive pulmonary disease, ICU intensive care unit

Data are expressed as number (percentage) for categorical variables or median (1<sup>st</sup> quartile- 3<sup>rd</sup> quartile) for continuous variables.

WiCI was defined as follows: i) ESC 2012: ST elevation in two contiguous leads ( $\geq 0.10$  mV in all leads other than V<sub>2</sub>-V<sub>3</sub>;  $\geq 0.20$  mV in V<sub>2</sub>-V<sub>3</sub> in men  $\geq 40$  years;  $\geq 0.25$  mV in V<sub>2</sub>-V<sub>3</sub> in men < 40 years;  $\geq 0.15$  mV in V<sub>2</sub>-V<sub>3</sub> in women), or ST depression  $\geq 0.05$  mV in two contiguous leads; ii) AHA 2013: ST elevation or depression  $\geq 0.10$ mV in two contiguous leads. <sup>a</sup> Successful weaning was defined as patient alive and extubated within the next 7 days after extubation; <sup>b</sup> If

patient died before day-28, VFD at day-28=0