Supplemental Table 1: Individual patient's characteristics

#	Age	Sex	Comorbid Disease	SOFA Score	Consideration for awake	Respiratory support	RR (/min)	P/F ratio	paCO$_2$ (mmHg)	pH	Duration of ECMO support (days)	Indication for intubation	Duration of IMV (days)	ICU length of stay (days)	Outcome
												Pre-ECMO implantation			
1	49	F	DM-2	4	BMI 31 kg/cm^2	HFNC FiO$_2$ 100%	48	83	32.9	7.44	7	Hypoxemia (PF ratio 56.1)	8	13	Intubated Discharged home
2	39	M	MD-1	6	Neuromuscular disease	BiPAP 10/10 FiO$_2$ 100%	24	60	62.7	7.32	15	Not intubated	0	27	Discharged home
3	75	F	DM-2, HTN	4	Severity of pulmonary infiltrates	HFNC FiO$_2$ 100%	27	58	44.9	7.34	32	Secretion obstruction and delirium	23	33	Intubated Died in ICU
4	67	M	HTN	3	BMI 29 kg/cm^2	BiPAP 8/9 FiO$_2$ 70%	36	101	45	7.37	25	Delirium and hypoxemia (PF 68.5)	46	56	Intubated Discharged home
5	59	M	DM-2	4	Severity of pulmonary infiltrates	HFNC FiO$_2$ 100%	30	52	36	7.44	11	Not intubated	0	15	Discharged home
6	52	M	None	4	Refused intubation	HFNC FiO$_2$ 100%	30	103	37.2	7.46	39	Delirium and hypoxemia (PF 69.1)	52	69	Intubated Discharged home
7	55	F	MG	4	Neuromuscular disease	BIPAP 15/8 FiO$_2$ 90%	46	76	41.8	7.44	7	Not intubated	0	13	Discharged home

Abbreviations: DM-2 = type 2 diabetes mellitus, MD-1 = muscular dystrophy type 1, HTN = hypertension, MG = myasthenia gravis
BMI = body mass index, HFNC = high flow nasal cannula, BiPAP = Bi-level positive pressure ventilation, P/F = PaO$_2$/FiO$_2$, IMV = invasive mechanical ventilation, ICU = intensive care unit