

Supplemental Table 1 – Propensity Score Matched Cohort

Covariate	Means COVID19	Means Control	Absolute Std. Mean Diff.	Var. Ratio	eCDF Mean	eCDF Max
Age (Years)	41.5	41.964	0.04	0.736	0.072	0.214
Body Mass Index (kg/m²)	32.276	32.168	0.016	0.373	0.09	0.25
APACHE¹ II Score	26.5	25.643	0.152	0.607	0.061	0.179
Duration of ECLS² (Days)	23.893	23.393	0.017	1.652	0.047	0.143
Distance (Propensity Score)	0.396	0.382	0.05	1.111	0.015	0.107

¹ APACHE: Acute Physiology and Chronic Health Evaluation

² ECLS: Extracorporeal Life Support

Supplemental Table 2 – Extracorporeal Life Support Indications and Salvage Therapies

	Overall N = 56	Control N = 28	COVID19 N = 28	p
Etiology of ARDS¹ (%)				<0.001
Aspiration	2 (3.6)	2 (7.1)	0 (0.0)	
Bacterial PNA²	12 (21.4)	12 (42.9)	0 (0.0)	
Influenza	9 (16.1)	9 (32.1)	0 (0.0)	
Fungal PNA	1 (1.8)	1 (3.6)	0 (0.0)	
Non-Influenza Viral PNA	30 (53.6)	2 (7.1)	28 (100.0)	
Non-Pulmonary Sepsis	2 (3.6)	2 (7.1)	0 (0.0)	
Salvage Therapy				0.004
Pulmonary Vasodilator	17 (30.4)	11 (39.3)	6 (21.4)	
Proning	17 (30.4)	2 (0.07)	15 (53.6)	
NMBAs³	49 (87.5)	23 (82.1)	26 (92.9)	

¹ ARDS: Acute respiratory distress syndrome

² PNA: Pneumonia

³ NMBAs: Neuromuscular blockage agents

Supplemental Table S2

	Overall N = 56	Control N = 28	COVID19 N = 28	p
Ventilator Settings (median [IQR¹])				
Rate	30.00 [25.00, 35.00]	30.00 [24.00, 33.50]	31.00 [28.00, 35.00]	0.143
Tidal Volume	420.00 [380.00, 450.00]	450.00 [400.00, 485.00]	400.00 [371.25, 432.50]	0.105
FiO₂²	1.00 [1.00, 1.00]	1.00 [1.00, 1.00]	1.00 [1.00, 1.00]	0.072
Positive End Expiratory Pressure	15.00 [12.00, 18.00]	15.00 [10.00, 18.00]	16.00 [12.00, 18.00]	0.565
Plateau Pressure	33.00 [30.00, 36.50]	35.00 [31.00, 39.25]	32.00 [29.00, 35.00]	0.096
Pre-Cannulation Arterial Blood Gas (median [IQR])				
pH	7.22 [7.15, 7.32]	7.19 [7.13, 7.30]	7.24 [7.20, 7.33]	0.104
pO₂³ (mmHg)	61.50 [51.75, 76.00]	56.50 [47.50, 68.00]	67.50 [56.75, 80.50]	0.007
pCO₂⁴ (mmHg)	56.50 [45.00, 75.25]	54.50 [45.00, 75.75]	59.50 [48.75, 75.25]	0.533

¹ IQR: Interquartile Range² FiO₂: Fraction inspired oxygen³ Partial pressure oxygen⁴ Partial pressure carbon dioxide

Covariate Balance

Sample ● Unadjusted ■ Full ▲ Nearest Neighbor ◆ Optimal

