



SUPPLEMENTAL TABLES

Supplemental Table A: Demographics of Subjects in Matched Cohort

	ARDS+CA (n=25)	ARDS (n=25)	p-value
Demographics			
Age (years)	7.9 (3.2, 13)	9 (3.3, 14.2)	0.839
Weight (kg)	24 (14, 36)	32 (14, 50)	0.229
Male gender	12 (48.0%)	14 (56.0%)	0.778
Race & Ethnicity			1.000
White	11 (44.0%)	11 (44.0%)	
Black	8 (32.0%)	9 (36.0%)	
Hispanic	3 (12.0%)	3 (12.0%)	
Asian	0	1 (4.0%)	
Other	2 (8.0%)	2 (8.0%)	
Co-Morbidities			
None	15 (60.0%)	14 (56.0%)	1.000
Prematurity	2 (8.0%)	2 (8.0%)	1.000
Cerebral palsy	6 (24.0%)	3 (12.0%)	0.463
Epilepsy	2 (8.0%)	3 (12.0%)	1.000
Genetic syndrome	2 (8.0%)	1 (4.0%)	1.000
Hematologic disease	1 (4.0%)	0	1.000
Solid cancer	0	0	---
Liquid cancer	1 (4.0%)	3 (12.0%)	0.609
Stem cell transplant	0	2 (8.0%)	0.490
Chronic lung disease	0	1 (4.0%)	1.000
Organ transplant	0	0	---
Rheumatologic disease	0	0	---
Immunologic disease	0	0	---
Immunosuppressed	2 (8.0%)	2 (8.0%)	1.000
ARDS Characteristics			
ARDS Category			0.008
Viral pneumonia	2 (8.0%)	3 (12.0%)	
Aspiration pneumonia	11 (44.0%)	7 (28.0%)	
Bacterial pneumonia	0	3 (12.0%)	
Fungal pneumonia	0	0	
Sepsis	1 (4.0%)	8 (32.0%)	
Trauma	2 (8.0%)	3 (12.0%)	
Medication-related	1 (4.0%)	0	
TRALI	1 (4.0%)	0	
Drowning	4 (16.0%)	0	
Smoke inhalation	1 (4.0%)	0	
Pancreatitis	0	1 (4.0%)	
Cardiac arrest	2 (8.0%)	0	
PRISM III @ 12H	24 (21, 31)	24 (20, 29)	0.808
Initial PaO ₂ /FiO ₂	93 (67, 148)	126 (63, 154)	0.756
Initial OI	23.7 (11.4, 38.1)	15.8 (11, 28.8)	0.290
Worst mPaw in 24 hours (cmH ₂ O)	16 (14.5, 21)	14 (13, 19)	0.077
iNO within 72 hours	13 (52.0%)	7 (28.0%)	0.148
Vasoactive Use at 72 hours			
# of vasopressors	1 (1, 2)	1 (1, 2)	0.509
VIS	20 (12, 32)	15 (5, 38)	0.392
Ventilator days	7 (5, 15)	8 (5, 12)	0.938

Outcomes			
ECMO			1.00
<i>VV</i>	2 (8.0%)	2 (8.0%)	
<i>VA</i>	1 (4.0%)	0	
PICU length of stay (days)	11 (5, 24)	12 (7, 19)	0.620
PICU death	13 (52.0%)	2 (8.0%)	0.001

Supplemental Table B: Matched Cohort* Biomarker Comparison between ARDS+CA and ARDS Cohorts

Biomarker	ARDS+CA (n=25)	ARDS (n=25)	p-value
Ang2 (pg/mL)	6749.348 (4914.249, 14718.99)	12654.42 (4744.369, 20871.66)	0.184
sRAGE (pg/mL)	6746.867 (3607.563, 10609.57)	2863.456 (1668.454, 5204.645)	0.022
Nucleosomes	0.242 (0.167, 0.493)	0.182 (0.095, 0.491)	0.410
SP-D (ng/mL)	15.456 (10.017, 25.772)	10.794 (7.098, 18.422)	0.031
CCL22 (pg/mL)	896.36 (688.11, 1060.86)	592.85 (458.72, 831.82)	0.032
CCL7 (pg/mL)	7.83 (4.98, 27.21)	13.41 (5.99, 61.45)	0.388
IL-6 (pg/mL)	750.76 (107.22, 2365.04)	440.98 (169.07, 1696.6)	0.691
TNFR1 (pg/mL)	1949.51 (1360.43, 3633.45)	3074.39 (1825.69, 6283.94)	0.079
TNF-alpha (pg/mL)	12.9 (9.36, 34.45)	17.6 (13.54, 39.36)	0.211
OFM4 (ng/mL)	2.95 (1.39, 9.26)	10.65 (4.41, 21.85)	0.010
Granzyme B (pg/mL)	8.67 (3.39, 25.22)	8.76 (3.53, 55.69)	0.497
HSP70 (pg/mL)	290646 (161560.1, 770888.3)	305184 (155130.9, 611057.6)	0.946
IL-1a (pg/mL)	0.33 (0.12, 0.75)	0.12 (0.12, 1.55)	0.619
IL-8 (pg/mL)	200.83 (105.57, 484.88)	179.62 (70.82, 983.51)	0.662
CCL3/MIP-1a (pg/mL)	34.56 (14.9, 68.8)	31.68 (17.86, 59.8)	0.676
MIP-1b (pg/mL)	60.96 (40.51, 92.14)	60.32 (32.99, 88.13)	0.742
MMP8 (pg/mL)	9044.57 (2460.6, 15526.64)	10033.34 (3684.13, 66904.84)	0.232

*Matching based on PRSIM III score (+/- 2), immunosuppression (yes/no) and age.