

Biomarker	Time point	ARDS (n = 26)	No ARDS control (n = 51)	OR (95% CI)	p
Angiopoetin-2	Baseline	2789 (2118 - 4099)	2412 (2784 - 5011)	1.2 (0.71, 2.02)	0.498
	2 hour	4468 (3485 - 6578)	3696 (2784 - 5011)	1.62 (0.91, 2.86)	0.099
	6 hour	4544 (3504 - 8057)	4040 (3028 - 5553)	1.58 (0.92, 2.7)	0.098
	Baseline to 2 hours	1362 (685 - 3776)	1114 (391 - 1611)	1.77 (0.99, 3.14)	0.053
	Baseline to 6 hours	1756 (1076 - 3300)	1440 (665 - 2916)	1.7 (0.95, 3.04)	0.075
ICAM/CD54	Baseline	418561 (315096 - 556982)	350325 (176042 - 504226)	1.18 (0.76, 1.84)	0.464
	2 hour	426502 (354667 - 508012)	371265 (225976 - 486453)	1.11 (0.7, 1.76)	0.648
	6 hour	469325 (375172 - 599752)	443163 (264632 - 517475)	1.12 (0.7, 1.79)	0.637
	Baseline to 2 hours	14997 (-103227 - 75250)	-863 (-45126 - 40777)	0.88 (0.53, 1.45)	0.620
	Baseline to 6 hours	57882 (-25003 - 166921)	47753 (-20258 - 95912)	0.89 (0.54, 1.47)	0.653
Interleukin-6	Baseline	4 (2 - 6)	2 (0 - 6)	1.6 (0.88, 2.92)	0.125
	2 hour	338 (139 - 2130)	185 (123 - 383)	1.47 (0.89, 2.43)	0.136
	6 hour	307 (105 - 1643)	189 (88 - 353)	1.76 (0.92, 3.39)	0.090
	Baseline to 2 hours	329 (137 - 2127)	185 (117 - 374)	1.47 (0.89, 2.42)	0.137
	Baseline to 6 hours	304 (101 - 1629)	182 (84 - 351)	1.76 (0.92, 3.38)	0.089
Interleukin-8	Baseline	4 (2 - 9)	3 (1 - 5)	2.53 (0.95, 6.74)	0.064
	2 hour	98 (28 - 320)	32 (18 - 76)	1.91 (1, 3.62)	0.048 *
	6 hour	68 (18 - 311)	18 (12 - 36)	3.56 (1.28, 9.95)	0.015 *
	Baseline to 2 hours	98 (28 - 320)	32 (18 - 76)	1.85 (1, 3.43)	0.052
	Baseline to 6 hours	56 (10 - 279)	17 (9 - 32)	3.14 (1.24, 7.97)	0.016 *
RAGE	Baseline	1639 (1376 - 2284)	1768 (1194 - 2139)	0.95 (0.58, 1.57)	0.841
	2 hour	3374 (1815 - 5249)	2738 (2032 - 3963)	2.03 (0.82, 5.02)	0.125
	6 hour	3244 (1602 - 5329)	2354 (1722 - 3975)	2.12 (1, 4.47)	0.049 *
	Baseline to 2 hours	1189 (685 - 3148)	762 (308 - 2176)	2.02 (0.76, 5.41)	0.160
	Baseline to 6 hours	902 (237 - 3156)	576 (150 - 1201)	2.39 (0.95, 5.99)	0.063
PAI-1	Baseline	21055 (13991 - 25696)	11469 (8639 - 17036)	1.86 (1.07, 3.22)	0.027 *
	2 hour	36815 (30037 - 45151)	26271 (21134 - 34999)	1.71 (0.98, 2.99)	0.058
	6 hour	38074 (24852 - 46400)	25676 (19955 - 33280)	1.87 (1.11, 3.14)	0.018 *

	Baseline to 2 hours	13040 (0 - 26442)	11379 (3695 - 26292)	0.87 (0.55, 1.36)	0.535
	Baseline to 6 hours	12864 (0 - 30809)	11609 (127 - 22194)	1.02 (0.65, 1.61)	0.915
von Willebrand Factor	Baseline	116 (80 - 178)	78 (49 - 132)	1.41 (0.87, 2.28)	0.158
	2 hour	381 (303 - 718)	251 (187 - 375)	2.02 (0.96, 4.27)	0.065
	6 hour	442 (260 - 826)	267 (201 - 430)	1.7 (0.97, 2.99)	0.064
	Baseline to 2 hours	299 (121 - 551)	164 (73 - 279)	1.39 (0.79, 2.48)	0.255
	Baseline to 6 hours	41 (-65 - 185)	2 (-76 - 127)	1.21 (0.75, 1.95)	0.434
SP-D	Baseline	1.4 (0.7 - 2.8)	2.1 (1.1 - 4.1)	0.49 (0.23, 1.06)	0.070
	2 hour	2.9 (1.4 - 4.1)	2.2 (1 - 3.5)	1.88 (0.99, 3.58)	0.053
	6 hour	1.7 (0.9 - 3)	1.9 (0.9 - 4)	0.92 (0.59, 1.43)	0.709
	Baseline to 2 hours	1.4 (-0.5 - 2.8)	-0.3 (-2.2 - 1.5)	2.72 (1.29, 5.73)	0.009 *
	Baseline to 6 hours	-0.8 (-3.1 - 0.8)	-0.1 (-2 - 1.9)	0.64 (0.38, 1.08)	0.092

Supplemental Table 2: Biologic markers at baseline, 2-hours and 6-hours in ARDS patients and matched non-ARDS controls. All levels are in pg/ml. OR: Odds Ratio. ICAM-1: Intercellular Adhesion Molecule-1. RAGE: Receptor for Advanced Glycation End products. PAI-1: Plasminogen activator inhibitor-1. SP-D: Surfactant protein-D.