Predictive Risk Factors for COVID-19 Patients developing ARDS

		ARDS Status		Without Correction for Vaccination Status	With Correction for Vaccination Status
		No ARDS	ARDS	Odds Ratio (+/- 95% CI)	adj Odds Ratio (+/- 95% CI)
Age (years n=167)	57.85 (55.34; 60.29)	62.09 (58.89; 65.12)	50.67 (47.36;54.21)	0.956 (0.934; 0.976)	0.966 (0.943; 0.989)
Sex n=(167)				0.81 (0.41; 1.61)	0.82 (0.40; 1.68)
Male	115 (69%)	74 (70%)	41 (66%)		
Female	52 (31%)	31 (30%)	21 (34%)		
Virus Variant (n=81)				0.12 (0.00; 0.68)	0.16 (0.00; 0.95)
Omicron	18 (22%)	17 (28%)	1 (5%)		
Delta	63 (78%)	43 (72%)	20 (95%)		
BMI (n=129)				2.35 (1.03; 5.78)	2.29 (0.97; 5.81)
> 25 kg/m2	86 (67%)	53 (61%)	33 (79%)		
< 25 kg/m2	43 (33%)	34 (39%)	9 (21%)		
Pregnancy (n=167)				infinite number	infinite number
yes	6 (3.5%)	0 (0%)	6 (10%)		
no	161 (96.5%)	105 (100%)	56 (90%)		
Pre-existing diseases (n = 167)				0.472 (0.22; 1.00)	0.73 (0.0.32; 1.63)
yes	132 (79%)	88 (84%)	44 (71%)		
no	35 (21%)	17 (16%)	18 (29%)		
Immunodeficiency (through disease or medication) (n=167)				0.35 (0.11; 0.91)	0.53 (0.16; 1.49)
yes	26 (16%)	21 (20%)	5 (8%)		
no	141 (84%)	84 (80%)	57 (92%)		
Prediabetic metabolism (n=167)				0.55 (0.02;4.46)	0.42 (0.02; 3.68)
yes	4 (2%)	3 (3%)	1 (2%)		
no	163 (98%)	102 (97%)	61 (98%)		
Type 2 diabetes (n=167)				1.02 (0.44; 2.23)	1.51 (0.62; 3.63)
yes	32 (19%)	20 (19%)	12 (19%)		
no	135 (81%)	85 (81%)	50 (81%)		
Hypertension (n=167)				0.48 (0.24; 0.93)	0.70 (0.33; 0.1.45)
yes	66 (40%)	48 (46%)	18 (29%)		
no	101 (60%)	57 (54%)	44 (71%)		
Anemia (n=167)				0.70 (0.25; 1.77)	0.75 (0.26; 1.98)
yes	23 (14%)	16 (15%)	7 (11%)		
no	144 (86%)	89 (85%)	55 (89%)		
Rheumatological disease (n=167)				0.40 (0.05; 1.67)	0.42 (0.05; 1.87)
yes	10 (6%)	8 (8%)	2 (3%)		
no	157 (94%)	97 (92%)	60 (97%)		
Oncological disease (n=167)				0.17 (0.03; 0.52)	0.26 (0.05; 0.84)
yes	27 (16%)	24 (23%)	3 (5%)		
no	140 (84%)	81 (77%)	59 (95%)		
Infectious disease (n=167)				0.83 (0.17; 3.30)	0.62 (0.12; 2.61)
yes	9 (5%)	6 (6%)	3 (5%)		
no	158 (95%)	99 (94%)	59 (95%)		
Cardiac disease (n=167)				0.32 (0.14; 0.67)	0.47 (0.20; 1.04)
yes	53 (32%)	42 (40%)	11 (18%)		
no	114 (68%)	63 (60%)	51 (82%)		
Vascular disease (n=167)				0.11 (0.01; 0.42)	0.15 (0.02; 0.57)
yes	25 (15%)	23 (21%)	2 (3%)		
no	142 (85%)	82 (78%)	60 (97%)		
Pulmonary disease (n=167)				0.96 (0.45; 1.99)	1.50 (0.66; 3.42)
yes	41 (25%)	26 (25%)	15 (24%)		
no	126 (75%)	79 (75%)	47 (76%)		
Neurological disease (n=167)				0.48 (0.15; 1.32)	0.73 (0.22; 2.16)
yes	21 (13%)	16 (15%)	5 (8%)		
no	146 (87%)	89 (85%)	57 (92%)		
Liver disease (n=167)				0.71 (0.14; 2.66)	0.58 (0.11; 2.31)
yes	10 (6%)	7 (7%)	3 (5%)		
no	157 (94%)	98 (93%)	59 (95%)		
Renal disease (n=167)				0.37 (0.14; 0.83)	0.53 (0.20; 1.28)
yes	38 (23%)	30 (29%)	8 (13%)		
no	129 (77%)	75 (71%)	54 (87%)		
Thyroid disease (n=167)				1.06 (0.47; 2.28)	1.10 (0.48; 2.49)
yes	34 (20%)	21 (20%)	13 (21%)		
no	133 (80%)	84 (80%)	49 (79%)		
Organ transplant (n=167)				0.39 (0.08; 1.30)	0.75 (0.15; 2.78)
yes	15 (9%)	12 (11%)	3 (5%)		
no	152 (91%)	93 (89%)	59 (95%)		