

Table S5. Univariate analysis of factors associated with invasive pulmonary aspergillosis (Influenza Associated Pulmonary Aspergillosis case definition) in patients with acute respiratory distress syndrome related to Coronavirus disease 19 (C-ARDS) or other viruses (NC-ARDS).

Variables	Invasive pulmonary aspergillosis		P value
	No (n=148)	Yes (n=24)	
Age median [IQR]	60 [52-69]	68 [59-74]	0.03
Male gender	108 (73%)	20 (83%)	0.28
Medical History			
Mc Cabe's classification			0.001
No underlying disease	113 (76%)	10 (41%)	
Ultimately fatal	27 (18%)	9 (38%)	
Rapidly fatal disease	8 (5%)	5 (21%)	
Charlson Comorbidity Index	1 [0-2]	3 [2-4]	0.01
Diabetes Mellitus	54 (37%)	8 (33%)	0.77
Congestive heart failure (NYHA 3-4)	11 (7%)	2 (8%)	0.99
Supraventricular arrhythmia	17 (12%)	3 (13%)	0.99
Hypertension	82 (55%)	13 (54%)	0.91
COPD	17 (12%)	2 (8%)	0.99
Chronic renal failure	19 (13%)	6 (25%)	0.13
Dialysis	3 (2%)	2 (8%)	0.15
Stroke	8 (5%)	1 (4%)	0.99
Liver cirrhosis (Child C)	1 (1%)	0 (0%)	0.99
Current smoking	38 (26%)	9 (38%)	0.23
Immunodepression	41 (28%)	15 (63%)	0.001
Clinical characteristics upon ICU admission			
SAPS II	39 [31-51]	51 [35-67]	0.12
Baseline SOFA— median [IQR]	7 [4-9]	7 [5-11]	0.34
PaO ₂ /FiO ₂ (mmHg) median [IQR]	133 [96-185]	147 [110-200]	0.49
Norepinephrine, n (%)	46 (51%)	9 (38%)	0.21
Lymphocyte count ($\times 10^9/L$)	0.8 [0.4-1.2]	0.4 [0.1-1.0]	0.006
Bacterial coinfection	46 (31%)	7 (29%)	0.85
Influenza	38 (26%)	12 (50%)	0.015
COVID-19	83 (56%)	7 (29%)	0.01
Other viruses	28 (19%)	6 (25%)	0.58
Treatment at admission			
Neuromuscular blockade	80 (54%)	9 (37%)	0.13
Prone position	46 (31%)	7 (29%)	0.85
Extra corporeal membrane oxygenation	11 (7%)	1 (4%)	0.99
Corticosteroids (any dose) *	33/144 (23%)	9 /24 (38%)	0.13
Corticosteroids (low dose) *#	30/ 144 (21%)	9/24 (38%)	0.07
Corticosteroids (high dose) *	3/ 144 (2%)	0/24 (0%)	0.99
Outcome			
VAP	79 (53%)	15 (63%)	0.41
Death at day 28	49 (33%)	12 (50%)	0.11

Death in ICU	50 (34%)	14 (58%)	0.02
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Abbreviations: VAP= ventilator-associated pneumonia, COPD=chronic obstructive pulmonary disease, SAPS II =Simplified Acute Physiology Score II, SOFA = sequential organ failure assessment, ICU= intensive care unit. * Four missing values because two patients received dexamethasone or placebo in a randomized controlled trial; #denotes less than 1 mg/kg of prednisone or equivalent