

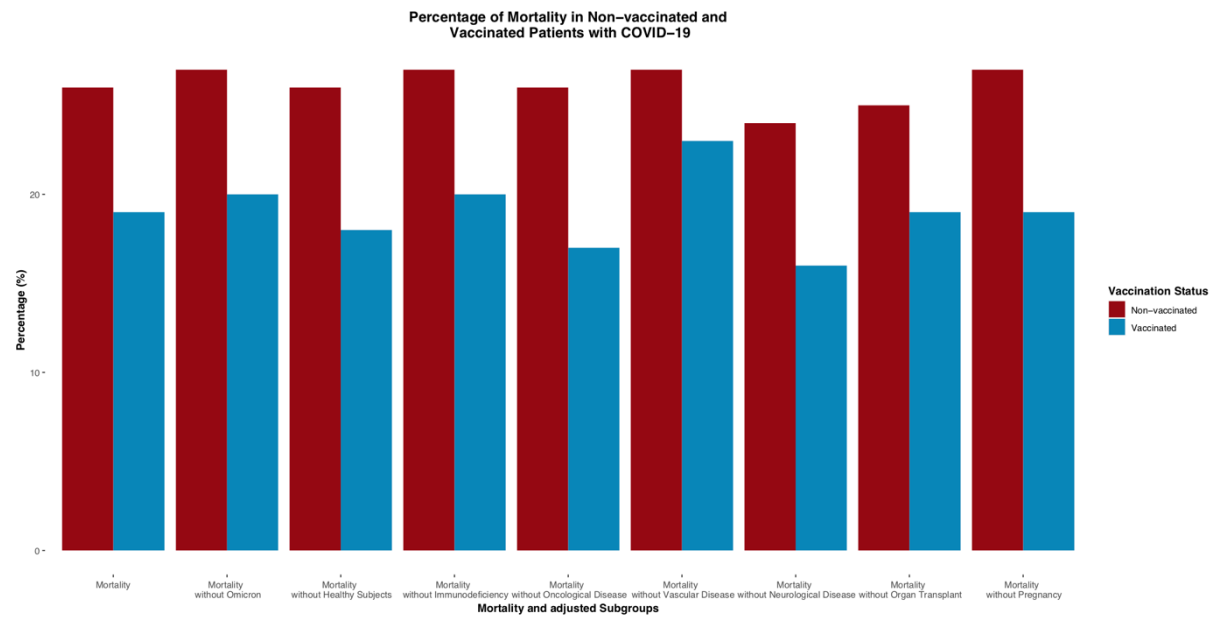
Supplementary materials

Supplementary Table 1. Mortality in non-vaccinated and vaccinated patients who are hospitalized with COVID-19 in different subgroups adjusted for confounding variables. Results highlighted in blue are statistically significant.

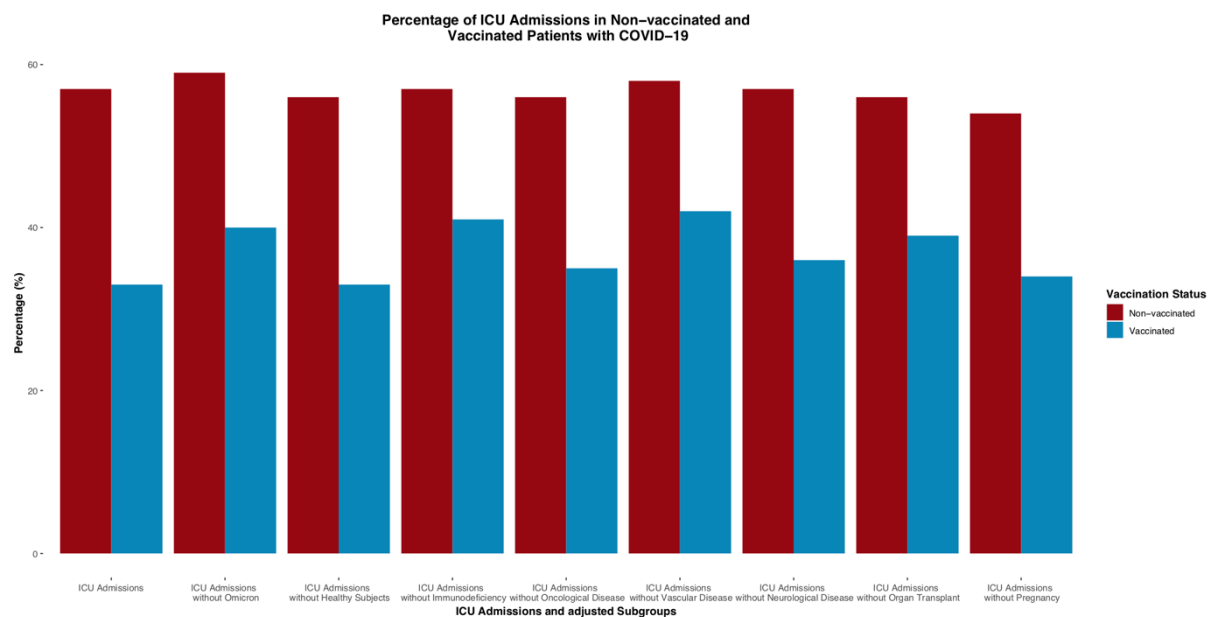
	All	Vaccination status		Without correction for confounder variables	With correction for confounder variables
		Non-vaccinated	Vaccinated	Risk ratio ($\pm$ 95% CI)	Adjusted risk ratio ($\pm$ 95% CI)
Mortality (n = 167)				0.72 (0.36; 1.31)	0.46 (0.13; 0.99)
Yes	38 (23%)	25 (26%)	13 (19%)		
No	129 (77%)	72 (74%)	57 (81%)		
Mortality (without Omicron n = 149)				0.752 (0.34; 1.40)	0.40 (0.08; 0.96)
Yes	36 (24%)	25 (27%)	11 (20%)		
No	113 (76%)	69 (73%)	44 (80%)		
Mortality (without Healthy Subjects n = 132)				0.70 (0.33; 1.36)	0.46 (0.11; 1.22)
Yes	29 (22%)	17 (26%)	12 (18%)		
No	103 (78%)	49 (74%)	54 (82%)		
Mortality (without Immunodeficiency n = 141)				0.73 (0.31; 1.35)	0.36 (0.08; 0.92)
Yes	34 (24%)	24 (27%)	10 (20%)		
No	107 (76%)	66 (73%)	41 (80%)		
Mortality (without Oncological Disease n = 140)				0.77 (0.34; 1.40)	0.44 (0.09; 1.14)
Yes	34 (24%)	24 (26%)	10 (17%)		
No	106 (76%)	67 (74%)	39 (83%)		
Mortality (without Vascular Disease n = 142)				0.83 (0.41; 1.51)	0.51 (0.14; 1.13)
Yes	36 (25%)	24 (27%)	12 (23%)		
No	106 (75%)	65 (73%)	41 (77%)		
Mortality (without Neurological Disease n = 146)				0.67 (0.27; 1.33)	0.36 (0.08; 0.83)
Yes	31 (21%)	22 (24%)	9 (16%)		
No	115 (79%)	69 (76%)	46 (84%)		
Mortality (without Organ Transplant n = 152)				0.76 (0.34; 1.42)	0.42 (0.11; 0.99)
Yes	35 (23%)	24 (25%)	11 (19%)		
No	117 (77%)	71 (75%)	46 (81%)		
Mortality (without Pregnancy=161)				0.67 (0.32; 1.18)	0.48 (0.13; 1.02)
Yes	38 (24%)	25 (27%)	13 (19%)		
No	123 (76%)	66 (73%)	57 (81%)		

Supplementary Table 2. ICU admissions in non-vaccinated and vaccinated patients who are hospitalized with COVID-19 in different subgroups adjusted for confounding variables. Results highlighted in blue are statistically significant. Intensive care unit (ICU).

	All	Vaccination status		Without correction for confounder variables	With correction for confounder variables
		Non-vaccinated	Vaccinated	Risk ratio ($\pm$ 95% CI)	Adjusted risk ratio ($\pm$ 95% CI)
ICU (n = 167)				0.60 (0.40; 0.83)	0.59 (0.28; 0.89)
Yes	78 (47%)	55 (57%)	23 (33%)		
No	88 (53%)	42 (43%)	46 (67%)		
ICU (without Omicron n = 149)				0.68 (0.44; 0.96)	0.64 (0.26; 0.98)
Yes	77 (52%)	55 (59%)	22 (40%)		
No	72 (48%)	39 (41%)	33 (60%)		
ICU (without Healthy Subjects n = 132)				0.59 (0.38; 0.87)	0.58 (0.24; 0.97)
Yes	59 (45%)	37 (56%)	22 (33%)		
No	73 (55%)	29 (44%)	44 (67%)		
ICU (without Immunodeficiency n = 141)				0.72 (0.48; 0.98)	0.752 (0.36; 0.99)
Yes	72 (51%)	51 (57%)	21 (41%)		
No	69 (49%)	39 (43%)	30 (59%)		
ICU (without Oncological Disease n = 140)				0.61 (0.37;0.92)	0.60 (0.25; 0.95)
Yes	68 (49%)	51 (56%)	17 (35%)		
No	72 (51%)	40 (44%)	32 (65%)		
ICU (without Vascular Disease n = 142)				0.71 (0.46; 0.99)	0.66 (0.29; 0.99)
Yes	74 (52%)	52 (58%)	22 (42%)		
No	68 (48%)	37 (42%)	31 (58%)		
ICU (without Neurological Disease n = 146)				0.63 (0.40; 0.91)	0.51 (0.18; 0.87)
Yes	72 (49%)	52 (57%)	20 (36%)		
No	74 (51%)	39 (43%)	35 (64%)		
ICU (without Organ Transplant n = 152)				0.69 (0.46; 0.98)	0.70 (0.33; 0.99)
Yes	75 (49%)	53 (56%)	22 (39%)		
No	77 (51%)	42 (44%)	35 (61%)		
ICU (without Pregnancy=161)				0.63 (0.41; 0.90)	0.54 (0.23; 0.89)
Yes	73 (45%)	49 (54%)	24 (34%)		
No	88 (55%)	42 (46%)	46 (66%)		



Supplementary Figure 1. Proportions of mortality in non-vaccinated and vaccinated patients who are hospitalized with COVID-19 in different for subgroups adjusted for confounding variables.



Supplementary Figure 2. Proportions of ICU admissions in non-vaccinated and vaccinated patients who are hospitalized with COVID-19 in different subgroups adjusted for confounding variables. Intensive care unit (ICU).