

Table 1 Association of (at least one dose of) COVID-19 vaccination with hospitalization from various disorders

Outcome	Coef	SE(coef)	Exp(coef) [HR]	Lower CI	Upper CI	P-value	No. of events in vaccinated	Rate of events in vaccinated (per 100,000)	No. of events in unvaccinated	Rate of events in unvaccinated (per 100,000)
AF	0.083	0.240	1.087	0.679	1.740	0.729	83	56.8	37	108.9
CAD	-0.161	0.161	0.851	0.621	1.166	0.316	171	117.0	80	235.4
COPD	-0.652	0.349	0.521	0.263	1.032	0.061	27	18.5	17	50.0
Dementia	-1.573	0.418	0.207	0.091	0.263	1.032	13	8.9	14	41.2
CKD	0.574	1.775	0.616	0.530	5.943	0.352	20	13.7	4	11.8
Heart Failure	-0.503	0.294	0.605	0.340	1.076	0.087	43	29.4	26	76.5
HTN	0.432	0.484	1.540	0.596	3.979	0.373	21	14.4	12	35.3
Immunodeficiencies	0.311	0.748	1.364	0.315	5.915	0.678	15	10.3	2	5.9
Non-COVID-19 pneumonia	-0.731	0.220	<b>0.482</b>	<b>0.313</b>	<b>0.742</b>	<b>9.18E-04</b>	57	39.0	57	167.7
Organ-specific autoimmune	0.098	0.338	1.103	0.569	2.138	0.772	36	24.6	16	47.1
Renal Failure	-0.367	0.315	0.693	0.374	1.285	0.244	42	28.7	19	55.9
Stroke	-0.990	0.194	<b>0.371</b>	<b>0.254</b>	<b>0.543</b>	<b>3.36E-07</b>	78	53.4	57	167.7
Systemic autoimmune	0.204	0.579	1.226	0.394	3.813	0.725	17	11.6	7	20.6
T2DM	-0.693	0.537	0.500	0.175	1.431	0.196	12	8.2	9	26.5
VTE	-0.725	0.258	<b>0.485</b>	<b>0.292</b>	<b>0.804</b>	<b>4.99E-03</b>	44	30.1	40	117.7

Coef, coefficient from Cox regression; SE, standard error; HR, hazard ratio; CI, 95% confidence interval. AF, atrial fibrillation; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; HTN, hypertension; Immunodeficiencies, disorders related to immunodeficiencies (details listed in supplementary tables); T2DM, type 2 diabetes; VTE, venous thromboembolism.

Note that the number and incidence rate of events (hospitalization) are listed for reference only. The incidence rates have not accounted for the length of follow-up which may differ across individuals. The main results were derived from Cox and Poisson regression analyses, for which differences in follow-up have been accounted for.

Results with  $p < 0.05$  are in bold.

Table 2 Association of (at least one dose of) COVID-19 vaccination with mortality hazards

Outcome	Coef	Exp(coef)	SE(coef)	Lower CI	Upper CI	P-value	No. of events in vaccinated	Rate of events in vaccinated (per 100,000)	No. of events in unvaccinated	Rate of events in unvaccinated (per 100,000)
<i>Cause-specific mortality</i>										
CAD	-1.659	0.190	0.364	0.093	0.389	5.25E-06	16	11.0	21	61.9
COPD	-2.737	0.065	0.688	0.017	0.250	7.02E-05	3	2.1	8	23.6
Dementia	-1.966	0.140	0.332	0.073	0.269	3.24E-09	15	10.3	28	82.6
Stroke	-1.823	0.161	0.500	0.061	0.430	2.63E-04	8	5.5	12	35.4
<i>All-cause/CVD mortality</i>										
All-cause mortality	-2.412	0.090	0.094	0.074	0.108	9.14E-145	175	124.1	475	1467.3
Mortality from CVD	-2.381	0.092	0.143	0.070	0.122	1.89E-62	78	53.4	187	550.2

CVD, cardiovascular disease.