

**Supplemental Table S3.** Unadjusted and adjusted hazard ratios showing associations between demographic and clinical characteristics with COVID-19 hospitalization in the general population cohort

Variable	Unadjusted HR (95% CI)	P-value <sup>a</sup>	Adjusted HR (95% CI)	P-value <sup>a</sup>
<b>Demographics</b>				
Age (years)	1.0487 (1.0483, 1.0492)	<.0001	1.0288 (1.0283, 1.0293)	<.0001
Male vs. Female	1.02 (1.005, 1.03)	.007	1.15 (1.13, 1.17)	<.0001
Gender Unknown/Missing vs. Female	0.76 (0.41, 1.41)	.38	1.82 (0.98, 3.39)	.058
Asian vs. White	0.34 (0.32, 0.36)	<.0001	0.61 (0.58, 0.65)	<.0001
Black vs. White	1.56 (1.53, 1.59)	<.0001	1.19 (1.17, 1.22)	<.0001
Hispanic vs. White	0.95 (0.93, 0.98)	<.0001	1.10 (1.07, 1.12)	<.0001
Race unknown/missing vs. White	0.45 (0.44, 0.47)	<.0001	0.99 (0.96, 1.02)	.49
Midwest vs. South	0.76 (0.75, 0.77)	<.0001	0.98 (0.96, 0.995)	.013
Northeast vs. South	0.90 (0.88, 0.92)	<.0001	0.88 (0.86, 0.90)	<.0001
West vs. South	0.52 (0.50, 0.53)	<.0001	0.85 (0.83, 0.87)	<.0001
Region unknown/missing vs. South	0.005 (0.003, 0.008)	<.0001	0.01 (0.006, 0.02)	<.0001
<b>COVID-19 treatment</b>				
COVID-19 outpatient treatment	2.32 (2.23, 2.41)	<.0001	3.29 (3.16, 3.43)	<.0001
Tixagevimab/cilgavimab treatment	0.60 (0.39, 0.91)	.015	0.02 (0.01, 0.04)	<.0001
<b>Comorbidities</b>				
Current/former smoker vs. Never smoker	2.56 (2.50, 2.61)	<.0001	1.55 (1.52, 1.59)	<.0001
Smoking status unknown vs. Never smoker	0.70 (0.69, 0.72)	<.0001	0.93 (0.91, 0.95)	<.0001
Previous COVID-19 infection	0.41 (0.40, 0.42)	<.0001	0.276 (0.268, 0.284)	<.0001
At least one COVID-19 vaccination	0.269 (0.264, 0.273)	<.0001	0.354 (0.347, 0.360)	<.0001
Asthma	1.71 (1.67, 1.75)	<.0001	1.16 (1.13, 1.19)	<.0001
Autoimmune	2.11 (2.07, 2.16)	<.0001	0.99 (0.97, 1.02)	.47
Cancer	2.80 (2.75, 2.87)	<.0001	1.07 (1.05, 1.09)	<.0001
Cerebrovascular disease	4.11 (4.02, 4.19)	<.0001	1.16 (1.14, 1.19)	<.0001
Kidney disease	5.07 (4.99, 5.15)	<.0001	1.36 (1.33, 1.38)	<.0001
Liver disease	2.43 (2.36, 2.51)	<.0001	1.29 (1.25, 1.33)	<.0001

Lung disease	5.41 (5.33, 5.50)	<.0001	1.40 (1.38, 1.43)	<.0001
Diabetes	4.15 (4.09, 4.21)	<.0001	1.60 (1.57, 1.62)	<.0001
Disability	1.04 (0.99, 1.08)	.091	1.29 (1.24, 1.34)	<.0001
Heart disease	5.21 (5.13, 5.28)	<.0001	1.42 (1.40, 1.44)	<.0001
HIV	1.39 (1.23, 1.58)	<.0001	1.07 (0.94, 1.21)	.29
Primary immunodeficiency	3.23 (2.95, 3.54)	<.0001	1.33 (1.21, 1.45)	<.0001
Mental health disorder	2.05 (2.00, 2.10)	<.0001	1.17 (1.15, 1.20)	<.0001
Neurologic	5.19 (5.06, 5.33)	<.0001	1.57 (1.53, 1.62)	<.0001
Obesity	2.14 (2.10, 2.17)	<.0001	1.18 (1.16, 1.20)	<.0001
Pregnancy	1.64 (1.56, 1.72)	<.0001	6.09 (5.80, 6.40)	<.0001
Solid organ transplant	6.58 (6.25, 6.94)	<.0001	1.92 (1.81, 2.04)	<.0001

HR = hazard ratio

<sup>a</sup>P-values calculated from Cox proportional hazards models.