SUPPLEMENTAL TABLE 2. Risk of severe COVID-19 infection (hospitalization or death due to COVID-19) by chronic condition categories within 3 age groups. Chronic condition categories are listed in alphabetic order. The reference population for each analysis is all persons without the chronic condition within the age group. Ten conditions with interaction p values<0.05 are highlighted in bold type, indicating that the strength of the association differs significantly across the age groups. Hazard ratios are not presented when <50 persons are at risk.

Chronic condition category	0-44 years			45-64 years			65+ years		
	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]
Affective disorders, schizophrenia, other psychoses	28 (0.4)	4	-	17 (0.8)	6	-	19 (2.0)	9	-
Anxiety, depression, bipolar disorders	1,416 (20.7)	35	1.68 (1.06, 2.64)[b]	618 (28.5)	57	1.30 (0.94, 1.81)	303 (32.5)	91	1.55 (1.17, 2.05)[b]
Arrhythmias	735 (10.8)	32	2.90 (1.86, 4.51)[b]	470 (21.7)	60	1.66 (1.20, 2.30)[b]	468 (50.2)	147	1.48 (1.09, 2.01)[b]
Asthma	478 (7.0)	8	1.02 (0.49, 2.13)	189 (8.7)	27	1.93 (1.27, 2.93)[b]	110 (11.8)	30	1.23 (0.83, 1.83)
Attention-deficit, conduct, and disruptive behavior disorder	393 (5.8)	6	1.34 (0.57, 3.15)	36 (1.7)	4	-	14 (1.5)	3	-
Back problems	1,208 (17.7)	38	1.72 (1.11, 2.67)[b]	778 (35.9)	79	1.36 (1.00, 1.87)	480 (51.5)	144	1.56 (1.18, 2.07)[b]
Biliary and liver disorders	**276 (4.0)**	**19**	**2.66 (1.57, 4.52)[b]**	**285 (13.1)**	**39**	**1.59 (1.10, 2.30)[b]**	**206 (22.1)**	**85**	**2.14 (1.63, 2.82)[b]**
Bowel disorders	**143 (2.1)**	**10**	**2.94 (1.50, 5.77)[b]**	**299 (13.8)**	**32**	**1.30 (0.87, 1.92)**	**288 (30.9)**	**74**	**1.12 (0.84, 1.49)**
Cancer	**178 (2.6)**	**11**	**3.21 (1.66, 6.21)[b]**	**219 (10.1)**	**16**	**0.91 (0.54, 1.54)**	**291 (31.2)**	**78**	**1.12 (0.84, 1.50)**
Central nervous system vascular ischemia	4 (0.1)	1	-	19 (0.9)	3	-	79 (8.5)	24	1.08 (0.70, 1.67)[b]
Chronic kidney disease	24 (0.4)	6	-	80 (3.7)	16	1.93 (1.14, 3.27)[b]	240 (25.7)	97	1.90 (1.42, 2.55)[b]
Chronic neurologic disorders	**903 (13.2)**	**41**	**3.16 (2.06, 4.84)[b]**	**679 (31.3)**	**70**	**1.33 (0.97, 1.82)**	**508 (54.5)**	**157**	**1.74 (1.28, 2.36)[b]**
Conditions associated with dizziness or vertigo	548 (8.0)	15	1.30 (0.74, 2.30)	284 (13.1)	34	1.37 (0.93, 2.01)	228 (24.4)	68	1.26 (0.94, 1.68)
Deficiency and other anemia	333 (4.9)	18	2.89 (1.65, 5.06)[b]	263 (12.1)	37	1.70 (1.16, 2.50)[b]	274 (29.4)	99	1.62 (1.22, 2.14)[b]
Developmental Disorders	105 (1.5)	3	3.79 (1.17, 12.31)[b]	17 (0.8)	2		10 (1.1)	6	-
Diabetes	**333 (4.9)**	**27**	**2.67 (1.62, 4.39)[b]**	**629 (29)**	**78**	**1.42 (1.04, 1.96)**	**498 (53.4)**	**131**	**1.13 (0.85, 1.49)**
Disorders of lipid metabolism	**255 (3.7)**	**20**	**2.27 (1.32, 3.90)[b]**	**749 (34.5)**	**83**	**1.32 (0.96, 1.82)**	**658 (70.5)**	**178**	**1.46 (1.03, 2.06)[b]**
Epilepsy, convulsions	90 (1.3)	8	7.49 (3.59, 15.62)[b]	45 (2.1)	2		29 (3.1)	14	-
Esophageal Disorders	520 (7.6)	20	1.72 (1.02, 2.90)	471 (21.7)	45	1.09 (0.77, 1.55)	343 (36.8)	104	1.47 (1.13, 1.93)[b]
Gastric and duodenal ulcer	103 (1.5)	3	1.14 (0.36, 3.65)	110 (5.1)	12	1.22 (0.67, 2.21)	81 (8.7)	30	1.81 (1.23, 2.67)[b]
Gout and other crystal arthropathies	17 (0.3)	1	-	60(2.8)	10	1.90 (1.00, 3.62)	111 (11.9)	32	1.05 (0.72, 1.53)
Headache	1,153 (16.9)	38	2.16 (1.39, 3.35)[b]	465 (21.4)	48	1.39 (0.98, 1.98)	199 (21.3)	61	1.50 (1.11, 2.04)[b]
Heart failure	29 (0.4)	4	-	90 (4.2)	21	2.73 (1.71, 4.36)[b]	189 (20.3)	89	2.49 (1.87, 3.31)[b]
Heart valve disorders	116 (1.7)	5	2.98 (1.20, 7.41)[b]	111 (5.1)	17	1.61 (0.97, 2.68)	202 (21.7)	67	1.28 (0.95, 1.73)

[a] All models are adjusted for age (continuous variable within each age stratum), sex, race, ethnicity, BMI category, and smoking status.
[b] Hazard ratio is statistically significant after adjusting for multiple comparisons

SUPPLEMENTAL TABLE 2 (continued). Risk of severe COVID-19 infection (hospitalization or death due to COVID-19) by chronic condition categories within 3 age groups. Chronic condition categories are listed in alphabetic order. The reference population for each analysis is all persons without the chronic condition within the age group. Ten conditions with interaction p values<0.05 are highlighted in bold type, indicating that the strength of the association differs significantly across the age groups. Hazard ratios are not presented when <50 persons are at risk.

Chronic condition category	0-44 years			45-64 years			65+ years		
	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]	N at risk (%)	N severe infections	Adjusted Hazard Ratio (95% CI)[a]
Hematologic disorders	**279 (4.1)**	**23**	**5.24 (3.20, 8.56)[b]**	**184 (8.5)**	**34**	**2.28 (1.55, 3.34)[b]**	**211 (22.6)**	**83**	**1.81 (1.37, 2.40)[b]**
Hepatitis	45 (0.7)	3	-	47 (2.2)	8	-	29 (3.1)	10	-
Hypertension	**234 (3.4)**	**17**	**2.18 (1.23, 3.85)[b]**	**667 (30.8)**	**74**	**1.19 (0.87, 1.64)**	**643 (68.9)**	**185**	**1.81 (1.23, 2.65)[b]**
Ischemic heart disease	**85 (1.3)**	**8**	**4.50 (2.16, 9.36)[b]**	**187 (8.6)**	**29**	**1.69 (1.12, 2.55)[b]**	**312 (33.4)**	**114**	**1.83 (1.39, 2.41)[b]**
Obstructive pulmonary disorders	247 (3.6)	10	2.44 (1.24, 4.78)[b]	194 (8.9)	28	1.92 (1.27, 2.90)[b]	227 (24.3)	79	1.65 (1.25, 2.19)[b]
Osteoarthritis, joint disorders	1,487 (21.8)	30	1.14 (0.73, 1.78)	972 (44.8)	86	1.04 (0.76, 1.42)	625 (67.0)	158	1.09 (0.80, 1.48)
Osteoporosis	9 (0.1)	1	-	40 (1.8)	8	-	137 (14.7)	47	1.50 (1.06, 2.13)[b]
Other Diseases of Bladder and Urethra	40 (0.6)	2	-	56 (2.6)	11	2.38 (1.28, 4.42)[b]	76 (8.2)	26	1.13 (0.73, 1.73)
Other endocrine disorders	**1,237 (18.1)**	**53**	**3.17 (1.97, 5.08)[b]**	**842 (38.8)**	**86**	**1.34 (0.96, 1.87)**	**495 (53.1)**	**143**	**1.54 (1.14, 2.07)[b]**
Other upper respiratory tract disease	1,175 (17.2)	26	1.44 (0.91, 2.28)	479 (22.1)	39	0.94 (0.65, 1.35)	295 (31.6)	89	1.49 (1.13, 1.96)[b]
Paralysis	17 (0.3)	3	-	21 (1.0)	4	-	26 (2.8)	10	-
Peripheral and central vascular disorders	28 (0.4)	4	-	94 (4.3)	12	1.14 (0.63, 2.07)	237 (25.4)	90	1.63 (1.23, 2.17)[b]
Peripheral venous disorders	185 (2.7)	10	2.42 (1.24, 4.73)[b]	279 (12.9)	30	1.21 (0.81, 1.81)	219 (23.5)	65	1.27 (0.95, 1.71)
Personality disorders	56 (0.8)	4	3.72 (1.32, 10.46)[b]	20 (0.9)	4	-	6 (0.6)	3	-
Rheumatoid Arthritis and Related Disease	20 (0.3)	0	-	58 (2.7)	8	1.63 (0.79, 3.35)	53 (5.7)	13	0.99 (0.57, 1.74)
Skin disorders	2,015 (29.5)	41	1.38 (0.90, 2.11)	896 (41.3)	69	0.92 (0.67, 1.26)	562 (60.2)	144	1.21 (0.90, 1.62)
Substance use disorders	663 (9.7)	18	1.55 (0.85, 2.83)	236 (10.9)	25	1.54 (0.97, 2.44)	123 (13.2)	35	1.34 (0.91, 1.98)
Systemic lupus erythematosus and Connective Tissue Disorders	15 (0.2)	1	-	22 (1.0)	0	-	18 (1.9)	8	-
Thyroid disorders	244 (3.6)	14	2.45 (1.34, 4.49)[b]	265 (12.2)	31	1.69 (1.13, 2.53)[b]	252 (27.0)	76	1.52 (1.13, 2.04)[b]
Tuberculosis	48 (0.7)	2	-	14 (0.7)	4	-	4 (0.4)	1	-

[a] All models are adjusted for age (continuous variable within each age stratum), sex, race, ethnicity, BMI category, and smoking status.
[b] Hazard ratio is statistically significant after adjusting for multiple comparisons