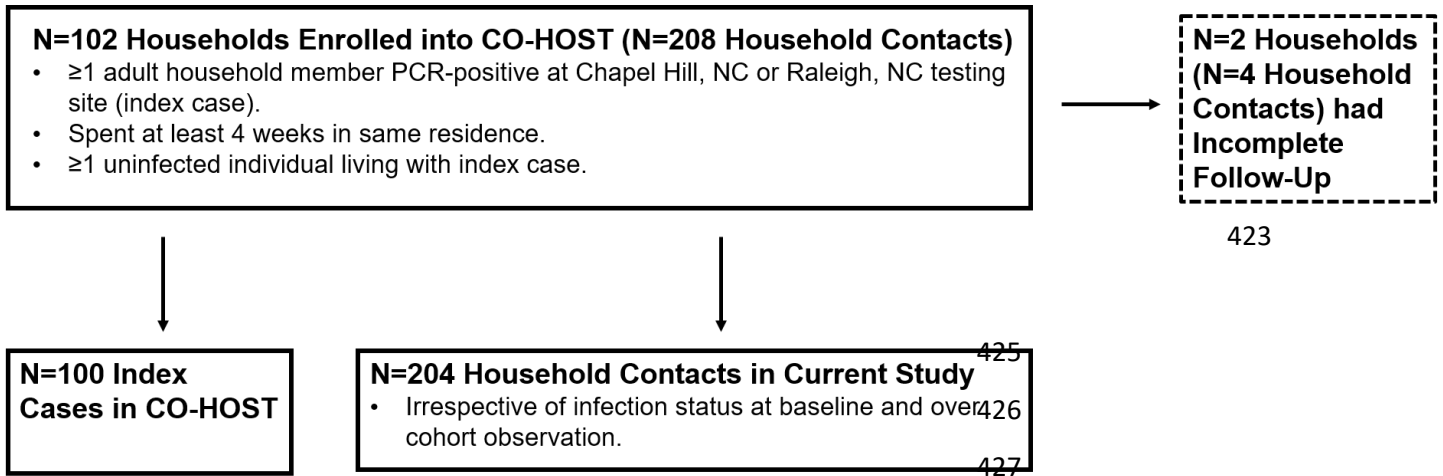


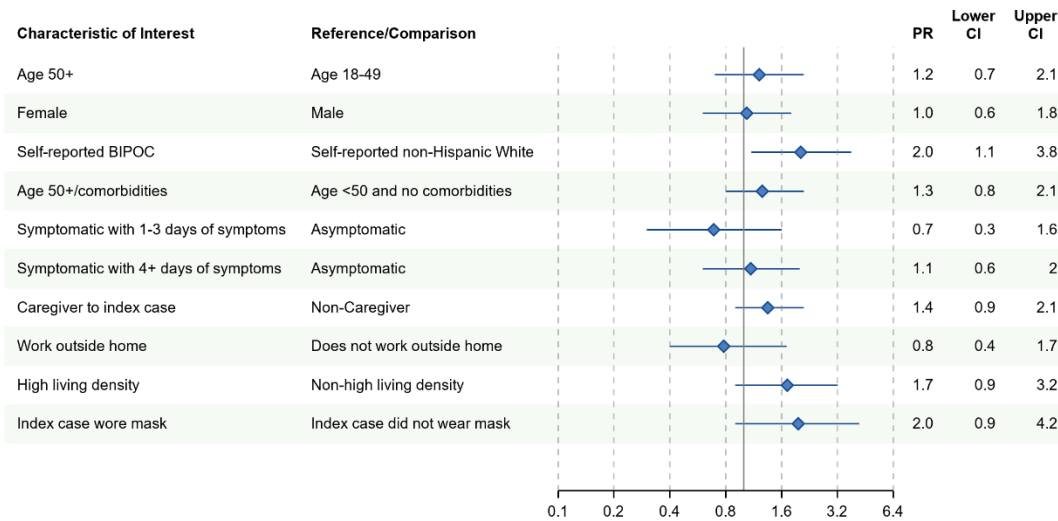
422 **SUPPLEMENTAL MATERIAL:**



428 **Figure S1.** Inclusion diagram. CO-HOST refers to the parent study from which this secondary analysis is
429 derived. 2 households consisting of 2 index cases and 4 household contacts were unable to be included in this
430 study due to insufficient follow up. This study utilized the 204 remaining household contacts.
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Mask Use Inside Home at Day 14
Prevalence Ratio and 95% CI



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452 **Figure S2.** Bivariate sensitivity analyses of factors associated with using a mask at home at any time at Day
 453 14 of cohort participation. Solid dots (PR) and solid lines (95% CI) display imputed estimates using chained
 454 multiple imputation for clustered data. PR and 95% CI graphed on the natural log scale. Vertical solid line
 455 denotes the null value of the PR (PR=1.0) on the exponentiated scale. X-axis labels correspond to the
 456 exponentiated scale. BIPOC=Black, Indigenous, People of Color. Table denotes the PR, lower 95% CI and
 457 upper 95% CI.

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Shared Bedroom with Index Case Between Days 7-14
Prevalence Ratio and 95% CI

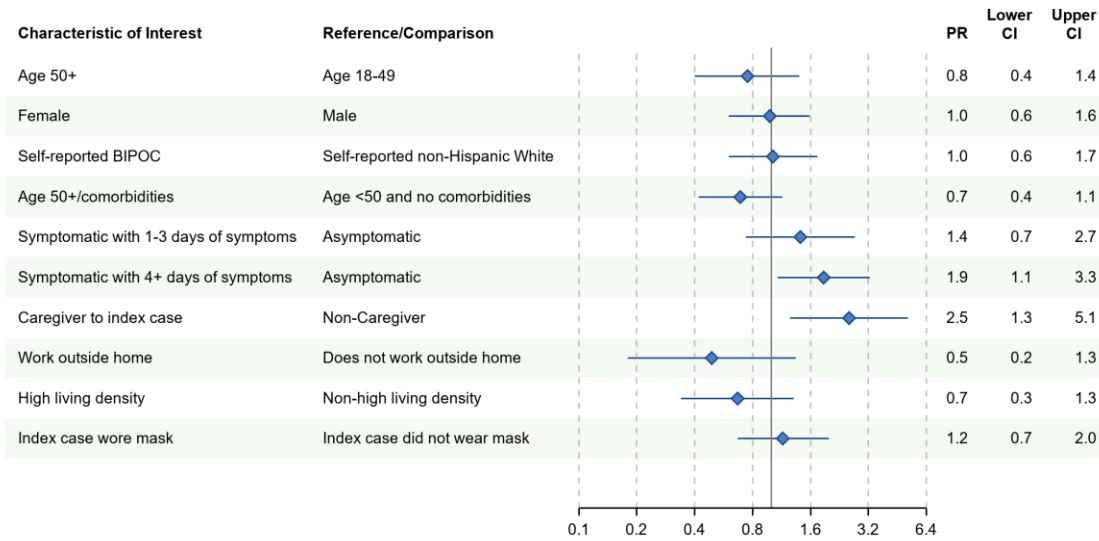


Figure S3. Bivariate sensitivity analyses of factors associated with sharing a bedroom with the index case at any time between Days 7-14 of cohort participation. Solid dots (PR) and solid lines (95% CI) display imputed estimates using chained multiple imputation for clustered data. PR and 95% CI graphed on transformed natural log scale. Vertical solid line denotes the null value of the PR (PR=1.0) on the exponentiated scale. X-axis labels correspond to the exponentiated scale. BIPOC=Black, Indigenous, People of Color. Table denotes the PR, lower 95% CI and upper 95% CI.

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Table S1. Number and proportion of household contacts engaging in reported behaviors at study entry and Day 14. P-values were calculated using Yang's test for changes between Day 0-14 on complete cases. 85 participants were missing 'masking at home' responses and 119 were evaluable. 41 participants were missing responses for all other variables and 163 participants were evaluable. See Figure 1 in main text.

Behavior	N (%) Household Contacts Reporting at Cohort Entry	N (%) Household Contacts Reporting at Day 14	P-value
Share kitchen	148 (91)	124 (76)	0.003
Eat together	111 (68)	90 (55)	0.013
Share bathroom	105 (65)	92 (56)	0.066
Watch TV together	103 (63)	89 (55)	0.068
Share car rides	101 (62)	66 (41)	<0.001
Share electronic devices	65 (40)	54 (33)	0.092
Share bedroom	58 (36)	44 (27)	0.015
Masking at home	28 (24)	31 (26)	0.614

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Table S2. Number (row %) of household contacts living in high density households among self-reported race/ethnicity and masking behavior.

Mask Use Inside Home Between Days 7-14	Race/Ethnicity	High Living Density		
		Yes	No	Total
Yes	Non-Hispanic White	2 (13)	13 (87)	15 (100)
	BIPOC	12 (57)	9 (43)	21 (100)
No	Non-Hispanic White	7 (10)	61 (90)	68 (100)
	BIPOC	14 (54)	12 (46)	26 (100)

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Table S3. Number (%) of household contacts living in high density households among self-reported race/ethnicity and bedroom sharing with index case.

Shared Bedroom with Index Case Between Days 7-14	Race/Ethnicity	High Living Density			580
		Yes	No	Total	581
Yes	Non-Hispanic White	1 (4)	27 (96)	28 (100)	582
	BIPOC	8 (53)	7 (47)	15 (100)	583
No	Non-Hispanic White	10 (14)	64 (87)	74 (100)	584
	BIPOC	21 (47)	24 (53)	45 (100)	585

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Table S4. Frequency and prevalence of household contacts who reported ever masking or ever sharing a bedroom with the index case between Days 7-14 of cohort participation.

Outcome:	Mask Use Inside the Home		Sharing a Bedroom	
Household-Contact Characteristics	N	Prevalence	N	Prevalence
Age (restricted to 18 and older)				
18-49 (ref)	16	0.26	24	0.33
50+	9	0.36	8	0.24
Sex				
Male (ref)	15	0.26	20	0.27
Female	21	0.29	24	0.27
Race/Ethnicity				
Non-Hispanic White	15	0.18	28	0.27
Participants of Color	21	0.45	16	0.26
Aged 50 or older or any comorbidities ^a				
No	12	0.21	24	0.35
Yes	24	0.35	19	0.22
Missing	6		6	
Duration of COVID-19 Symptoms ^b				
No symptoms	20	0.18	18	0.16
1-3 days	5	0.16	8	0.26
4 or more days	7	0.22	12	0.38
Missing	28		28	
Caregiver to index case ^b (restricted to 18 and older)				
No	10	0.24	7	0.15
Yes	15	0.34	23	0.47
Missing	0		2	
Work outside home on most days ^b (restricted to 18 and older)				
No	22	0.32	29	0.33
Yes	3	0.17	3	0.16
Live in household with high living density				
No	22	0.16	35	0.29
Yes	14	0.22	9	0.21
Missing	74		0	
Index case wore mask ^b (include all age groups)				
No	4	0.09	15	0.25
Yes	32	0.37	27	0.27
Missing	0		3	

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a We considered individuals aged 50 or older or those with at least one comorbidity to be at higher risk for severe COVID-19 infection. If the household contact was the only member of their household with higher risk for severe COVID-19 infection, they were placed in the reference group. Household contacts who resided in households in which some members were not enrolled in COHOST, and where there were no known household members over aged 50 or with comorbidities, were coded as missing.

b Between days 7-14 of cohort observation