

sTable 8. Sensitivity analysis: COVID-19 vaccine hesitancy in May 2021 by demographics among US adults, including those that self-described gender (N=529,658)

	Sample		COVID-19 vaccine hesitant		
	n	%	% (95% CI)	RR (95% CI)	Adj. RR (95% CI)
Gender					
Male	159427	30.1	16.6 (16.4, 16.9)	1.0 (NA)	1.0 (NA)
Female	294983	55.7	13.2 (13.1, 13.4)	0.79 (0.78, 0.81)	1.12 (1.10, 1.14)
Non-binary	3232	0.6	18.2 (16.1, 20.3)	1.10 (0.97, 1.22)	0.99 (0.88, 1.10)
Self-described	4014	0.8	64.2 (62.3, 66.1)	3.86 (3.73, 3.99)	1.42 (1.37, 1.47)
Missing	68002	12.8	26.3 (25.8, 26.7)	1.58 (1.54, 1.61)	1.39 (1.34, 1.44)
Age group					
18-24 years	15678	3.0	22.9 (22.1, 23.7)	2.79 (2.67, 2.91)	^b
25-34 years	52640	9.9	21.3 (20.8, 21.7)	2.60 (2.52, 2.68)	
35-44 years	73245	13.8	18.4 (18.1, 18.8)	2.25 (2.18, 2.32)	
45-54 years	81578	15.4	17.0 (16.7, 17.3)	2.07 (2.01, 2.13)	
55-64 years	103380	19.5	12.9 (12.7, 13.1)	1.57 (1.53, 1.62)	
65-74 years	95964	18.1	8.2 (8.0, 8.4)	1.0 (NA)	
≥ 75 years	42657	8.1	9.8 (9.4, 10.2)	1.20 (1.14, 1.25)	
Missing	64516	12.2	24.6 (24.1, 25.0)	3.00 (2.91, 3.09)	
Race/ethnicity					
White	338578	63.9	15.8 (15.6, 16.0)	1.0 (NA)	^b
Hispanic	57608	10.9	13.4 (13.0, 13.7)	0.85 (0.82, 0.87)	
Black	28625	5.4	13.0 (12.5, 13.5)	0.82 (0.79, 0.86)	
Asian	12012	2.3	3.2 (2.8, 3.6)	0.20 (0.17, 0.23)	
Native American	3993	0.8	25.3 (23.4, 27.2)	1.60 (1.48, 1.72)	
Pacific Islander	1002	0.2	13.9 (11.3, 16.5)	0.88 (0.71, 1.04)	
Multi-racial	13433	2.5	29.2 (28.2, 30.2)	1.85 (1.78, 1.92)	
Missing	74407	14.0	26.5 (26.1, 27.0)	1.68 (1.65, 1.71)	
Education level					
≤ High school	92557	17.5	20.8 (20.4, 21.1)	1.88 (1.83, 1.93)	1.56 (1.52, 1.60)
Some college	167096	31.5	18.3 (18.1, 18.6)	1.66 (1.62, 1.70)	1.37 (1.34, 1.40)
4 year degree	110944	20.9	11.0 (10.8, 11.3)	1.0 (NA)	1.0 (NA)
Master's	62862	11.9	8.3 (8.1, 8.6)	0.75 (0.72, 0.78)	0.90 (0.87, 0.92)
Professional (e.g., MD, JD)	14970	2.8	12.3 (11.6, 13.0)	1.12 (1.05, 1.18)	1.09 (1.04, 1.15)
Doctorate	10969	2.1	23.9 (22.7, 25.1)	2.16 (2.05, 2.28)	1.20 (1.14, 1.25)
Missing	70260	13.3	23.9 (23.5, 24.3)	2.16 (2.10, 2.22)	1.18 (1.10, 1.25)
Employment status					
Work outside home	176197	33.3	21.2 (20.9, 21.4)	2.48 (2.39, 2.57)	1.33 (1.28, 1.37)
Work at home	57246	10.8	8.5 (8.2, 8.8)	1.0 (NA)	1.0 (NA)
Does not work for pay	223071	42.1	12.7 (12.5, 12.9)	1.49 (1.43, 1.54)	1.34 (1.29, 1.38)
Missing	73144	13.8	23.9 (23.5, 24.3)	2.80 (2.69, 2.91)	1.33 (1.25, 1.41)

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US Region					
Midwest	126686	23.9	18.1 (17.9, 18.4)	1.50 (1.46, 1.55)	1.10 (1.07, 1.13)
South	182852	34.5	19.2 (19.0, 19.5)	1.59 (1.55, 1.64)	1.13 (1.10, 1.16)
Pacific	73521	13.9	12.1 (11.7, 12.4)	1.0 (NA)	1.0 (NA)
Mountain	42261	8.0	17.9 (17.4, 18.5)	1.49 (1.43, 1.55)	1.11 (1.07, 1.15)
Northeast	88229	16.7	12.6 (12.3, 12.9)	1.04 (1.01, 1.08)	0.96 (0.93, 0.99)
Territories	191	<0.05	12.0 (6.3, 17.8)	1.00 (0.52, 1.48)	0.64 (0.44, 0.84)
Missing	15918	3.0	33.3 (32.3, 34.3)	2.76 (2.64, 2.87)	^c
County urban classification					
Large central metro	120722	22.8	11.7 (11.5, 12.0)	1.0 (NA)	1.0 (NA)
Large fringe metro	115854	21.9	14.3 (14.0, 14.5)	1.22 (1.18, 1.25)	1.03 (1.01, 1.06)
Medium metro	138457	26.1	16.8 (16.5, 17.1)	1.43 (1.39, 1.47)	1.13 (1.10, 1.16)
Small metro	57778	10.9	21.0 (20.6, 21.5)	1.79 (1.74, 1.85)	1.18 (1.15, 1.22)
Micropolitan	49266	9.3	24.2 (23.7, 24.7)	2.06 (2.00, 2.12)	1.19 (1.15, 1.23)
Non-core	31472	5.9	27.4 (26.8, 28.1)	2.34 (2.27, 2.41)	1.23 (1.19, 1.27)
Missing	16109	3.0	33.0 (32.0, 34.0)	2.82 (2.71, 2.92)	^c

Juris Doctorate= JD; MD=Doctor of Medicine; NA=not applicable; NH=Non-Hispanic

^a Race/ethnicity groups other than the group labeled "Hispanic" are non-Hispanic.

^b Due to an interaction between age group and race/ethnicity, adjusted relative risks from the multivariable model are not reported in this table.

^c Reliable estimates could not be calculated for the missing category for variables based on participants' zip code, due to collinearity.