

Supplementary Table 1: Demographics – Descriptive statistics for the demographic characteristics of the HWF user base.

Variable	Level	Acceptance Respondents (n = 36,711)	Uptake Respondents (n=23,429)
Sex	Male	7,616 (21%)	5,108 (22%)
	Female	29,095 (79%)	18,321 (78%)
Age	[18,30)	4,815 (13%)	2,415 (10%)
	[30,45)	7,468 (20%)	4,028 (17%)
	[45,55)	6,416 (17%)	3,988 (17%)
	[55,65)	8,767 (24%)	6,131 (26%)
	[65,100)	9,245 (25%)	6,867 (29%)
Profession	Nonessential	24,823 (68%)	16,492 (70%)
	Healthcare	4,597 (13%)	2,773 (12%)
	Other Essential	4,087 (11%)	2,529 (11%)
	Missing	3,204 (9%)	1,635 (7%)
Employment Status	Employed	19,205 (52%)	12,206 (52%)
	Furloughed/Job Seeker	2,344 (6%)	1,466 (6%)
	Unemployed	10,264 (28%)	7,581 (32%)
	Missing	4,898 (13%)	2,176 (9%)
Race/Ethnicity	White	30,128 (83%)	19,526 (83%)
	Black/African American	1,461 (4%)	932 (4%)
	Hispanic/Latinx	1,968 (5%)	1,103 (5%)
	Asian	904 (2%)	512 (2%)
	Multiracial/Other	2,250 (6%)	1,356 (6%)
Median Household Income	0-40k	1,458 (4%)	897 (4%)
	40-70k	12,478 (34%)	7,770 (33%)
	70-100k	13,151 (36%)	8,536 (36%)
	100K+	9,624 (26%)	6,226 (27%)
Population Density	0-149 people/sq. mi	4,079 (11%)	2,509 (11%)
	150-999 people/sq. mi	13,516 (37%)	8,497 (36%)
	1000+ people/sq. mi	19,116 (52%)	12,423 (53%)
Preexisting Conditions	0	8,535 (23%)	5,266 (22%)
	1	12,564 (34%)	7,905 (34%)
	2	8,502 (23%)	5,446 (23%)
	3+	6,723 (18%)	4,589 (20%)
	Not Say	387 (1%)	223 (1%)
Census Location	Northeast	13,790 (38%)	9,139 (39%)
	West	9,053 (25%)	5,649 (24%)
	Midwest	5,627 (15%)	3,561 (15%)
	South	8,241 (22%)	5,080 (22%)
Practiced Protective Measures	During Every Login	13,108 (36%)	7,146 (31%)
	Not Every Login	23,603 (64%)	16,283 (69%)
Ever Received COVID Test	Yes	5,075 (14%)	3,262 (14%)
	No	31,636 (86%)	20,167 (86%)
COVID Status	Never Tested Positive/Never Tested	36,536 (99%)	107 (<1%)
	Tested Positive	175 (<1%)	23,322 (99%)

Supplementary Table 2: Hesitancy Rates –
Unweighted and weighted percentages of the
vaccine acceptance responses across
demographics.

		A					B				
		Unweighted Percents					Weighted Percents				
Variable	Level	Very Unlikely (4%)	Unlikely (3%)	Undecided (10%)	Likely (13%)	Very Likely (70%)	Very Unlikely (4%)	Unlikely (3%)	Undecided (11%)	Likely (13%)	Very Likely (69%)
Sex	Male	188 (2%)	141 (2%)	487 (6%)	765 (10%)	6035 (79%)	3%	2%	8%	11%	76%
	Female	1140 (4%)	802 (3%)	3335 (11%)	3980 (14%)	19838 (68%)	5%	3%	14%	14%	64%
Age	[18,30)	237 (5%)	152 (3%)	620 (13%)	747 (16%)	3059 (64%)	6%	3%	14%	15%	62%
	[30,45)	352 (5%)	227 (3%)	947 (13%)	1028 (14%)	4914 (66%)	5%	3%	13%	13%	65%
	[45,55)	296 (5%)	175 (3%)	821 (13%)	866 (13%)	4258 (66%)	5%	3%	13%	13%	66%
	[55,65)	236 (3%)	196 (2%)	810 (9%)	1065 (12%)	6460 (74%)	3%	2%	10%	12%	73%
	[65,100)	207 (2%)	193 (2%)	624 (7%)	1039 (11%)	7182 (78%)	3%	2%	7%	11%	77%
	Profession	Nonessential Healthcare	793 (3%) 177 (4%)	603 (2%) 130 (3%)	2345 (9%) 551 (12%)	3241 (13%) 548 (12%)	17841 (72%) 3191 (69%)	4% 4%	3% 3%	10% 13%	13% 12%
	Other Essential	217 (5%)	139 (3%)	581 (14%)	580 (14%)	2570 (63%)	6%	4%	14%	14%	62%
	Missing	141 (4%)	71 (2%)	345 (11%)	376 (12%)	2271 (71%)	5%	2%	12%	12%	69%
Self-Reported Race/Ethnicity											
	White	904 (3%)	682 (2%)	2696 (9%)	3755 (12%)	22091 (73%)	3%	2%	8%	12%	74%
	Black/African American	155 (11%)	96 (7%)	358 (25%)	235 (16%)	617 (42%)	11%	7%	25%	16%	42%
	Hispanic/Latinx	120 (6%)	70 (4%)	346 (18%)	258 (13%)	1174 (60%)	6%	3%	17%	13%	60%
	Asian	18 (2%)	22 (2%)	119 (13%)	151 (17%)	594 (66%)	2%	3%	14%	15%	66%
	Multiracial/Other	131 (6%)	73 (3%)	303 (13%)	346 (15%)	1397 (62%)	6%	3%	13%	14%	65%
Median Household Income											

	0-40k	85 (6%)	62 (4%)	234 (16%)	170 (12%)	907 (62%)	6%	5%	17%	11%	61%
	40-70k	618 (5%)	393 (3%)	1605 (13%)	1645 (13%)	8217 (66%)	6%	3%	14%	13%	65%
	70-100k	402 (3%)	312 (2%)	1281 (10%)	1715 (13%)	9441 (72%)	4%	2%	10%	13%	71%
	100K+	223 (2%)	176 (2%)	702 (7%)	1215 (13%)	7308 (76%)	3%	2%	8%	13%	75%
Population Density											
	0-149 people/sq. mi	199 (5%)	131 (3%)	542 (13%)	575 (14%)	2632 (65%)	5%	3%	14%	14%	65%
	150-999 people/sq. mi	579 (4%)	379 (3%)	1448 (11%)	1726 (13%)	9384 (69%)	5%	3%	11%	12%	68%
	1000+ people/sq. mi	550 (3%)	433 (2%)	1832 (10%)	2444 (13%)	13857 (72%)	4%	3%	11%	13%	70%
Preexisting Conditions											
	0	295 (3%)	197 (2%)	869 (10%)	1121 (13%)	6053 (71%)	4%	3%	11%	13%	69%
	1	412 (3%)	343 (3%)	1336 (11%)	1618 (13%)	8855 (70%)	4%	3%	12%	13%	68%
	2	302 (4%)	231 (3%)	840 (10%)	1119 (13%)	6010 (71%)	4%	3%	11%	12%	70%
	3+	293 (4%)	164 (2%)	734 (11%)	838 (12%)	4694 (70%)	5%	3%	12%	12%	69%
	Not Say	26 (7%)	8 (2%)	43 (11%)	49 (13%)	261 (67%)	9%	2%	14%	14%	61%
Census Location											
	Northeast	345 (3%)	277 (2%)	1255 (9%)	1780 (13%)	10133 (73%)	3%	2%	10%	13%	71%
	West	307 (3%)	240 (3%)	902 (10%)	1174 (13%)	6430 (71%)	3%	3%	10%	13%	71%
	Midwest	216 (4%)	164 (3%)	641 (11%)	715 (13%)	3891 (69%)	4%	3%	11%	13%	70%
	South	460 (6%)	262 (3%)	1024 (12%)	1076 (13%)	5419 (66%)	6%	3%	13%	13%	65%
Employment Status											
	Employed	661 (3%)	512 (3%)	2108 (11%)	2619 (14%)	13305 (69%)	4%	3%	11%	14%	69%
	Furloughed/Job Seeker	102 (4%)	90 (4%)	303 (13%)	310 (13%)	1539 (66%)	5%	4%	16%	12%	63%
	Unemployed	320 (3%)	227 (2%)	808 (8%)	1287 (13%)	7622 (74%)	4%	2%	9%	12%	72%
	Missing	245 (5%)	114 (2%)	603 (12%)	529 (11%)	3407 (70%)	6%	3%	13%	11%	67%
Practiced Protective Measures											
	During Every Login	438 (3%)	287 (2%)	1282 (10%)	1475 (11%)	9626 (73%)	4%	2%	11%	11%	72%

Not Every Login		890 (4%)	656 (3%)	2540 (11%)	3270 (14%)	16247 (69%)	4%	3%	12%	14%	67%
Ever Received COVID Test											
	Yes	145 (3%)	100 (2%)	462 (9%)	569 (11%)	3799 (75%)	3%	2%	10%	11%	74%
	No	1183 (4%)	843 (3%)	3360 (11%)	4176 (13%)	22074 (70%)	4%	3%	12%	13%	68%

Supplementary Table 3: Univariate Analysis –
Unweighted and weighted univariate logistic
regression analyses for vaccine reluctance.

Variable	Reference Group	A Univariate Analysis					B Weighted Univariate Analysis				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.85	1.71	2.00	6.49E-53	***	1.91	1.74	2.09	2.54E-43	***
Age [18,30)	65+	2.13	1.94	2.34	1.07E-54	***	2.10	1.87	2.36	4.58E-35	***
Age [30,45)		2.06	1.89	2.25	3.33E-61	***	1.93	1.73	2.15	4.81E-32	***
Age [45,55)		2.02	1.85	2.21	2.94E-54	***	1.90	1.69	2.13	1.13E-27	***
Age [55,65)		1.33	1.21	1.45	4.44E-10	***	1.24	1.11	1.39	0.0002	**
Essential Healthcare	Nonessential	1.29	1.19	1.40	7.76E-10	***	1.32	1.19	1.46	1.01E-07	***
Other Essential		1.68	1.55	1.82	5.03E-36	***	1.56	1.41	1.73	2.25E-17	***
Furloughed/Job Seeker	Employed	1.30	1.17	1.44	1.31E-06	***	1.52	1.33	1.73	6.56E-10	***
Unemployed		0.74	0.69	0.79	3.34E-18	***	0.83	0.76	0.90	2.39E-05	***
African American/Black	White	4.31	3.87	4.81	1.52E-152	***	4.52	4.01	5.10	1.14E-131	***
Hispanic/Latinx		2.26	2.03	2.51	7.17E-53	***	2.24	2.00	2.52	2.73E-43	***
Asian		1.29	1.08	1.53	0.0044	*	1.46	1.21	1.77	0.0001	**
Multiracial/Other		1.76	1.58	1.95	2.89E-26	***	1.66	1.47	1.89	2.37E-15	***
1 Preexisting	0	1.05	0.98	1.13	0.1794		1.05	0.95	1.15	0.3305	
2 Preexisting		1.02	0.94	1.10	0.7181		1.01	0.91	1.12	0.8746	
3+ Preexisting		1.13	1.04	1.24	0.0037	*	1.08	0.97	1.21	0.1479	
Preexisting Not Say		1.31	1.01	1.68	0.0392	*	1.51	1.08	2.09	0.0146	*
Parent	Not a Parent	1.04	0.69	1.52	0.8458		1.17	0.72	1.90	0.5339	
Income 0-40K		0.96	0.91	1.02	0.190		0.99	0.92	1.06	0.7220	
Income 40-70K		2.74	2.40	3.12	3.95E-50	***	2.69	2.29	3.16	1.50E-33	***
Income 70-100K		2.05	1.90	2.22	1.41E-76	***	2.03	1.84	2.24	8.79E-46	***
PopDensity 0-149	1000+	1.38	1.28	1.50	6.02E-16	***	1.36	1.22	1.50	6.30E-09	***
PopDensity 150-999		1.57	1.45	1.71	1.03E-25	***	1.37	1.24	1.53	2.11E-09	***
West	Northeast	1.25	1.18	1.33	9.01E-14	***	1.22	1.13	1.32	2.20E-07	***
Midwest		1.21	1.12	1.30	5.33E-07	***	1.07	0.97	1.18	0.1640	
South		1.41	1.29	1.53	1.08E-15	***	1.18	1.06	1.31	0.0026	*

Practiced Protective Behavior	Did Not Practice	1.06	1.05	1.07	1.32E-38 ***	1.04	1.03	1.05	8.19E-15 ***
Answered before Pfizer EUA	After Pfizer EUA	1.15	1.09	1.21	8.79E-07 ***	1.15	1.07	1.23	0.0001 **
State Cumulative Case Rate		1.71	1.59	1.83	3.99E-48 ***	1.52	1.39	1.67	4.50E-19 ***
State Cumulative Death Rate		1.09	1.07	1.11	5.12E-16 ***	1.05	1.02	1.08	8.63E-05 ***
Average Daily Pos Test Rate (Nov.)		0.85	0.81	0.90	1.64E-08 ***	0.96	0.90	1.04	0.3131
County % without HS Degree		1.03	1.03	1.04	3.11E-30 ***	1.03	1.02	1.04	2.45E-16 ***
Received COVID Test	Never Received Test	0.79	0.72	0.86	4.05E-08 ***	0.78	0.70	0.87	9.41E-06 ***

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 4: Multivariable Analysis –
Unweighted and weighted multivariable logistic regression
analyses for vaccine reluctance.

Variable	Reference Group	A Multivariable Unweighted Analysis					B Multivariable Weighted Analysis				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.73	1.59	1.88	1.41E-38	***	1.67	1.51	1.83	4.09E-25	***
Age [18,30)	65+	1.96	1.73	2.21	3.27E-27	***	2.17	1.86	2.53	1.03E-22	***
Age [30,45)		1.94	1.75	2.15	1.15E-37	***	2.02	1.77	2.29	8.92E-27	***
Age [45,55)		1.89	1.71	2.10	9.39E-35	***	1.96	1.72	2.23	1.52E-23	***
Age [55,65)		1.26	1.15	1.39	2.11E-06	***	1.27	1.12	1.44	0.0002	**
Essential Healthcare	Nonessential	1.18	1.08	1.29	0.0002	**	1.20	1.08	1.33	0.0010	*
Other Essential		1.57	1.44	1.72	1.91E-24	***	1.52	1.36	1.70	1.42E-13	***
Furloughed/Job Seeker	Employed	1.30	1.16	1.45	4.40E-06	***	1.48	1.29	1.70	4.04E-08	***
Unemployed		0.99	0.91	1.08	0.8267		1.13	1.01	1.25	0.0275	*
African American/Black	White	3.84	3.42	4.31	2.80E-114	***	3.94	3.47	4.48	1.26E-96	***
Hispanic/Latinx		1.85	1.65	2.07	1.59E-26	***	1.89	1.67	2.14	1.99E-23	***
Asian		1.49	1.24	1.78	1.71E-05	***	1.80	1.46	2.21	2.05E-08	***
Multiracial/Other		1.55	1.39	1.73	3.10E-15	***	1.59	1.39	1.81	8.11E-12	***
1 Preexisting	0	1.07	0.99	1.15	0.0954		1.06	0.96	1.17	0.2144	
2 Preexisting		1.04	0.95	1.13	0.4081		1.02	0.92	1.14	0.6578	
3+ Preexisting		1.25	1.14	1.37	2.47E-06	***	1.19	1.06	1.34	0.0036	*
Preexisting Not Say		1.39	1.05	1.81	0.0169	*	1.58	1.09	2.30	0.0161	*
Parent	Not a Parent	1.20	1.12	1.29	2.25E-07	***	1.26	1.15	1.38	9.61E-07	***
Income 0-40K	100K+	1.64	1.42	1.90	4.20E-11	***	1.66	1.39	1.98	2.33E-08	***
Income 40-70K		1.56	1.43	1.70	2.69E-24	***	1.58	1.42	1.77	1.85E-16	***
Income 70-100K		1.24	1.14	1.35	2.85E-07	***	1.21	1.08	1.34	0.0005	**
PopDensity 0-149	1000+	1.34	1.21	1.47	4.84E-09	***	1.32	1.18	1.49	3.86E-06	***
PopDensity 150-999		1.22	1.14	1.30	5.18E-09	***	1.27	1.16	1.38	5.02E-08	***
West	Northeast	1.01	0.87	1.18	0.8896		1.02	0.83	1.23	0.8805	
Midwest		1.12	0.97	1.28	0.1227		1.11	0.93	1.32	0.2364	
South		1.28	1.12	1.47	0.0004	**	1.25	1.05	1.48	0.0105	*
Answered before Pfizer EUA	After Pfizer EUA	1.46	1.37	1.55	5.32E-33	***	1.48	1.37	1.60	9.96E-23	***

Practiced Protective Behavior	Did Not Practice	0.79	0.74	0.84	6.95E-13 ***	0.78	0.72	0.85	6.12E-09 ***
State Cumulative Case Rate		1.00	0.97	1.03	0.9449	1.01	0.97	1.04	0.7826
State Cumulative Death Rate		1.20	1.07	1.36	0.0030 *	1.18	1.01	1.38	0.0351 *
Average Daily Pos Test Rate (Nov.)		1.01	0.99	1.02	0.4374	1.00	0.99	1.02	0.9654
County % without HS Degree		1.02	1.01	1.02	3.21E-05 ***	1.01	1.00	1.02	0.0819
Received COVID Test	Never Received Test	0.79	0.72	0.87	3.10E-07 ***	0.79	0.71	0.89	5.88E-05 ***

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 5: Nominal Unweighted – Unweighted nominal logistic regression analyses comparing “Undecided” vs “Likely” (Left) and “Unlikely” vs “Likely” for vaccine acceptance.

Variable	Reference Group	A Undecided					B Unlikely				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.88	1.70	2.08	2.68E-33	***	1.51	1.33	1.71	1.18E-10	***
Age [18,30)	65+	1.91	1.65	2.22	1.29E-17	***	2.04	1.69	2.45	4.23E-14	***
Age [30,45)		1.92	1.69	2.17	7.23E-25	***	1.98	1.70	2.31	3.37E-18	***
Age [45,55)		1.92	1.70	2.18	4.64E-25	***	1.84	1.58	2.15	1.39E-14	***
Age [55,65)		1.31	1.17	1.48	4.64E-06	***	1.17	1.01	1.36	0.0387	*
Essential Healthcare	Nonessential	1.18	1.06	1.31	0.0022	*	1.18	1.03	1.35	0.0152	*
Other Essential		1.56	1.41	1.73	7.61E-17	***	1.60	1.40	1.82	1.42E-12	***
Furloughed/Job Seeker	Employed	1.25	1.09	1.43	0.0013	*	1.39	1.18	1.64	9.21E-05	***
Unemployed		0.92	0.83	1.02	0.1067		1.12	0.99	1.27	0.0769	*
African American/Black	White	3.63	3.17	4.17	1.33E-75	***	4.19	3.57	4.91	5.62E-70	***
Hispanic/Latinx		1.95	1.71	2.23	1.25E-22	***	1.69	1.43	2.01	1.96E-09	***
Asian		1.77	1.44	2.18	5.61E-08	***	1.01	0.73	1.41	0.9298	
Multiracial/Other		1.51	1.32	1.72	2.02E-09	***	1.63	1.39	1.91	2.33E-09	***
1 Preexisting	0	1.07	0.97	1.17	0.1557		1.07	0.95	1.20	0.3002	
2 Preexisting		1.00	0.90	1.11	0.9525		1.11	0.97	1.26	0.1259	
3+ Preexisting		1.21	1.08	1.35	0.0007	**	1.31	1.14	1.51	0.0001	**
Preexisting Not Say		1.21	0.86	1.70	0.2642		1.71	1.17	2.49	0.0058	*
Parent	Not a Parent	1.17	1.07	1.27	0.0003	**	1.27	1.14	1.41	1.77E-05	***
Income 0-40K	100K+	1.69	1.42	2.02	5.78E-09	***	1.56	1.26	1.94	6.17E-05	***
Income 40-70K		1.57	1.42	1.75	1.86E-17	***	1.54	1.35	1.76	1.81E-10	***
Income 70-100K		1.28	1.16	1.41	1.56E-06	***	1.18	1.04	1.34	0.0126	*
PopDensity 0-149	1000+	1.31	1.17	1.48	5.08E-06	***	1.38	1.19	1.60	1.61E-05	***
PopDensity 150-999		1.13	1.05	1.23	0.0022	*	1.38	1.24	1.52	6.71E-10	***
West	Northeast	0.95	0.79	1.14	0.5796		1.14	0.90	1.44	0.2846	
Midwest		1.03	0.87	1.22	0.7064		1.28	1.04	1.59	0.0214	*
South		1.13	0.96	1.34	0.1353		1.58	1.28	1.94	1.58E-05	***
Answered before Pfizer EUA	After Pfizer EUA	1.59	1.47	1.71	5.40E-34	***	1.26	1.15	1.38	1.52E-06	***

Practiced Protective Behavior	Did Not Practice	0.82	0.76	0.89	8.19E-07 ***	0.73	0.66	0.81	1.59E-09 ***
State Cumulative Case Rate		1.01	0.97	1.05	0.7091	0.99	0.95	1.04	0.7155
State Cumulative Death Rate		1.21	1.04	1.41	0.0116 *	1.19	0.99	1.44	0.0638
Average Daily Pos Test Rate (Nov.)		1.01	0.99	1.03	0.1945	1.00	0.98	1.02	0.6997
County % without HS Degree		1.01	1.00	1.02	0.0152 *	1.02	1.01	1.03	3.29E-05 ***
Received COVID Test	Never Received Test	0.82	0.74	0.92	0.0004 **	0.74	0.64	0.85	2.44E-05 ***

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 6: Nominal Weighted –
Weighted nominal logistic regression analyses for
vaccine acceptance.

Variable	Reference Group	A Undecided Weighted					B Unlikely Weighted				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.80	1.59	2.02	1.21E-21	***	1.51	1.29	1.72	1.05E-07	***
Age [18,30)	65+	1.94	1.61	2.35	6.09E-12	***	2.04	2.01	3.24	1.40E-14	***
Age [30,45)		1.94	1.65	2.27	3.08E-16	***	1.98	1.78	2.63	7.86E-15	***
Age [45,55)		1.98	1.68	2.32	2.23E-16	***	1.84	1.58	2.36	1.43E-10	***
Age [55,65)		1.31	1.13	1.53	0.0005	**	1.17	0.97	1.43	0.0954	
Essential Healthcare	Nonessential	1.22	1.07	1.39	0.0028	*	1.18	0.98	1.37	0.0813	
Other Essential		1.49	1.30	1.71	7.14E-09	***	1.60	1.32	1.83	1.70E-07	***
Furloughed/Job Seeker	Employed	1.50	1.27	1.78	2.61E-06	***	1.39	1.18	1.78	0.0004	**
Unemployed		1.07	0.94	1.22	0.3332		1.12	1.04	1.44	0.0133	*
African American/Black	White	3.90	3.34	4.56	1.39E-66	***	4.19	3.38	4.79	1.65E-54	***
Hispanic/Latinx		2.04	1.76	2.37	6.98E-21	***	1.69	1.39	2.03	8.68E-08	***
Asian		2.12	1.68	2.68	2.56E-10	***	1.01	0.86	1.76	0.2606	
Multiracial/Other		1.56	1.32	1.83	7.17E-08	***	1.63	1.35	1.99	8.13E-07	***
1 Preexisting	0	1.08	0.96	1.22	0.1770		1.07	0.89	1.21	0.6269	
2 Preexisting		0.96	0.85	1.10	0.5888		1.11	0.95	1.32	0.1822	
3+ Preexisting		1.15	1.00	1.33	0.0535		1.31	1.02	1.46	0.0266	*
Preexisting Not Say		1.33	0.83	2.13	0.2373		1.71	1.12	3.12	0.0169	*
Parent	Not a Parent	1.17	1.05	1.31	0.0052	*	1.27	1.26	1.68	2.86E-07	***
Income 0-40K	100K+	1.75	1.41	2.18	3.26E-07	***	1.56	1.21	2.05	0.0008	**
Income 40-70K		1.62	1.42	1.85	1.74E-12	***	1.54	1.31	1.83	3.75E-07	***
Income 70-100K		1.25	1.10	1.42	0.0008	**	1.18	0.97	1.35	0.1152	
PopDensity 0-149	1000+	1.31	1.14	1.51	0.0002	**	1.38	1.11	1.59	0.0019	**
PopDensity 150-999		1.17	1.06	1.30	0.0025	*	1.38	1.24	1.59	1.52E-07	***
West	Northeast	0.96	0.75	1.22	0.7255		1.14	0.83	1.49	0.4735	
Midwest		1.03	0.84	1.28	0.7637		1.28	0.97	1.62	0.0827	
South		1.10	0.89	1.36	0.3716		1.58	1.19	1.97	0.0008	**
Answered before Pfizer EUA	After Pfizer EUA	1.60	1.45	1.76	1.51E-21	***	1.26	1.18	1.50	2.68E-06	***
Mask Wearing/Protective Measures	Did Not Practice	0.82	0.74	0.90	8.80E-05	***	0.73	0.64	0.83	1.56E-06	***

State Cumulative Case Rate		1.01	0.97	1.06	0.5969	0.99	0.94	1.05	0.8213
State Cumulative Death Rate		1.18	0.97	1.43	0.0919	1.19	0.94	1.49	0.1448
Average Daily Pos Test Rate (Nov.)		1.00	0.99	1.02	0.6512	1.00	0.97	1.02	0.5181
County % without HS Degree		1.01	1.00	1.02	0.2902	1.02	1.00	1.02	0.1312
Received COVID Test	Never Received Test	0.82	0.72	0.94	0.0050 *	0.74	0.62	0.89	0.0013 *

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 7: Sensitivity Multivariable – Sensitivity analysis for the multivariable logistic regression analysis for vaccine reluctance using a new weight threshold of 0.1 to 5.

Variable	Reference Group	Multivariable Sensitivity Analysis for Weight Thresholds (0.1,5)				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Significant
Female	Male	1.65	1.48	1.83	5.93E-21	***
Age [18,30)	65+	2.26	1.91	2.68	6.15E-21	***
Age [30,45)		2.03	1.77	2.34	4.37E-23	***
Age [45,55)		1.98	1.71	2.28	1.05E-20	***
Age [55,65)		1.27	1.11	1.46	0.0005	**
Essential Healthcare	Nonessential	1.20	1.07	1.35	0.0022	*
Other Essential		1.50	1.33	1.70	1.35E-10	***
Furloughed/Job Seeker	Employed	1.48	1.27	1.72	4.37E-07	***
Unemployed		1.17	1.04	1.31	0.0097	*
African American/Black	White	3.83	3.33	4.39	4.11E-80	***
Hispanic/Latinx		1.91	1.67	2.19	7.94E-21	***
Asian		1.80	1.46	2.22	3.93E-08	***
Multiracial/Other		1.57	1.36	1.81	1.24E-09	***
1 Preexisting	0	1.07	0.96	1.19	0.2529	
2 Preexisting		1.02	0.90	1.15	0.7673	
3+ Preexisting		1.19	1.05	1.36	0.0082	*
Preexisting Not Say		1.61	1.06	2.43	0.0248	*
Parent	Not a Parent	1.28	1.16	1.42	2.28E-06	***
Income 0-40K	100K+	1.70	1.40	2.08	1.40E-07	***
Income 40-70K		1.59	1.41	1.80	1.02E-13	***
Income 70-100K		1.19	1.06	1.34	0.0040	*
PopDensity 0-149	1000+	1.30	1.14	1.48	9.26E-05	***
PopDensity 150-999		1.29	1.17	1.42	1.90E-07	***
West	Northeast	1.01	0.81	1.25	0.9410	
Midwest		1.10	0.90	1.33	0.3495	
South		1.26	1.04	1.52	0.0180	*
Answered before Pfizer EUA	After Pfizer EUA	1.47	1.35	1.61	2.73E-18	***
Practiced Protective Behavior	Did Not Practice	0.78	0.71	0.85	1.04E-07	***
State Cumulative Case Rate		1.01	0.97	1.05	0.6396	

State Cumulative Death Rate		1.17	0.99	1.39	0.0650	
Average Daily Pos Test Rate (Nov.)		1.00	0.98	1.01	0.7254	
County % without HS Degree		1.00	1.00	1.01	0.2847	
Received COVID Test	Never Received Test	0.78	0.68	0.88	6.52E-05	***

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 8: Sensitivity Nominal - Sensitivity analysis for the nominal logistic regression analysis for vaccine acceptance using a new weight threshold of 0.1 to 5. Left: logistic regression analyses comparing “Undecided” vs “Likely” and right: logistic regression analyses comparing “Unlikely” vs “Likely”.

Variable	Reference Group	A Undecided Sensitivity Weights (0.1, 5)					B Unlikely Sensitivity Weights (0.1, 5)				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.79	1.57	2.03	1.08E-18	***	1.46	1.25	1.71	2.57E-06	***
Age [18,30)	65+	1.92	1.56	2.36	5.62E-10	***	2.87	2.21	3.73	3.53E-15	***
Age [30,45)		1.91	1.61	2.28	1.79E-13	***	2.24	1.82	2.77	8.28E-14	***
Age [45,55)		1.97	1.65	2.35	4.60E-14	***	1.98	1.59	2.46	5.94E-10	***
Age [55,65)		1.30	1.10	1.54	0.0019	*	1.20	0.98	1.48	0.0848	
Essential Healthcare	Nonessential	1.23	1.06	1.41	0.0049	*	1.16	0.97	1.39	0.1058	
Other Essential		1.48	1.27	1.72	3.81E-07	***	1.52	1.27	1.82	6.39E-06	***
Furloughed/Job Seeker	Employed	1.52	1.27	1.83	6.91E-06	***	1.42	1.13	1.78	0.0022	*
Unemployed		1.10	0.96	1.27	0.1748		1.27	1.06	1.51	0.0095	*
African American/Black	White	3.87	3.28	4.57	1.92E-57	***	3.77	3.13	4.56	2.57E-43	***
Hispanic/Latinx		2.11	1.79	2.48	3.34E-19	***	1.65	1.35	2.03	1.26E-06	***
Asian		2.14	1.69	2.72	3.97E-10	***	1.20	0.84	1.73	0.3201	
Multiracial/Other		1.55	1.30	1.84	8.74E-07	***	1.60	1.29	1.98	2.16E-05	***
1 Preexisting	0	1.09	0.96	1.25	0.1766		1.03	0.87	1.22	0.7387	
2 Preexisting		0.95	0.82	1.10	0.4932		1.12	0.93	1.35	0.2247	
3+ Preexisting		1.15	0.98	1.35	0.0768		1.22	1.00	1.49	0.0481	*
Preexisting Not Say		1.34	0.79	2.27	0.2733		1.90	1.09	3.32	0.0246	*
Parent	Not a Parent	1.17	1.03	1.33	0.0127	*	1.52	1.30	1.78	2.84E-07	***
Income 0-40K	100K+	1.79	1.41	2.28	2.14E-06	***	1.62	1.21	2.17	0.0013	*
Income 40-70K		1.62	1.39	1.88	2.75E-10	***	1.56	1.30	1.88	2.51E-06	***
Income 70-100K		1.23	1.07	1.42	0.0049	*	1.13	0.94	1.36	0.1918	
PopDensity 0-149	1000+	1.27	1.09	1.49	0.0022	*	1.32	1.08	1.61	0.0071	*
PopDensity 150-999		1.19	1.06	1.34	0.0039	*	1.43	1.25	1.65	4.86E-07	***
West	Northeast	0.92	0.70	1.20	0.5409		1.17	0.84	1.61	0.3498	
Midwest		0.99	0.79	1.26	0.9603		1.29	0.97	1.70	0.0779	

South		1.07	0.85	1.35	0.5636	1.62	1.23	2.14	0.0006 **
Answered before Pfizer EUA	After Pfizer EUA	1.59	1.43	1.77	1.09E-17 ***	1.33	1.16	1.51	2.65E-05 ***
Practiced Protective Behavior	Did Not Practice	0.81	0.73	0.91	0.0003 **	0.73	0.64	0.84	1.34E-05 ***
State Cumulative Case Rate		1.02	0.97	1.07	0.5056	1.00	0.94	1.06	0.9572
State Cumulative Death Rate		1.14	0.93	1.41	0.2149	1.23	0.96	1.57	0.1046
Average Daily Pos Test Rate (Nov.)		1.00	0.98	1.02	0.8418	0.99	0.96	1.01	0.2928
County % without HS Degree		1.00	0.99	1.01	0.4943	1.01	0.99	1.02	0.4032
Received COVID Test	Never Received Test	0.81	0.70	0.94	0.0060 *	0.72	0.60	0.88	0.0010 *

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 9: Receiving Test – Weighted logistic regression analysis for receiving a COVID-19 test.

Name	Reference Group	Probability of Receiving a COVID Test				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	0.92	0.84	1.01	0.0939	
Age [18,30)	65+	0.68	0.58	0.81	8.46E-06	***
Age [30,45)		0.82	0.71	0.93	0.0032	*
Age [45,55)		0.91	0.79	1.04	0.1670	
Age [55,65)		0.91	0.81	1.03	0.1455	
Essential Healthcare	Nonessential	2.12	1.91	2.36	9.19E-46	***
Other Essential		0.97	0.85	1.11	0.6502	
Furloughed/Job Seeker	Employed	0.93	0.79	1.10	0.4023	
Unemployed		0.84	0.75	0.94	0.0022	*
African American/Black	White	0.98	0.82	1.16	0.7966	
Hispanic/Latinx		0.88	0.75	1.03	0.1138	
Asian		0.96	0.77	1.21	0.7582	
Multiracial/Other		0.96	0.81	1.13	0.5965	
1 Preexisting	0	1.04	0.93	1.16	0.4715	
2 Preexisting		1.12	1.00	1.27	0.0597	
3+ Preexisting		1.48	1.31	1.68	6.57E-10	***
Preexisting Not Say		0.71	0.39	1.28	0.2550	
Parent	Not a Parent	0.95	0.87	1.05	0.3121	
Income 0-40K	100K+	1.06	0.86	1.32	0.5750	
Income 40-70K		0.99	0.89	1.11	0.9141	
Income 70-100K		1.02	0.92	1.13	0.7056	
PopDensity 0-149	1000+	0.78	0.67	0.90	0.0007	**
PopDensity 150-999		0.86	0.78	0.94	0.0012	*
West	Northeast	1.26	1.01	1.57	0.0438	*
Midwest		0.81	0.66	0.99	0.0394	*
South		1.17	0.97	1.42	0.0982	
Answered before Pfizer EUA	After Pfizer EUA	0.99	0.91	1.08	0.9030	
Practiced Protective Behavior	Did Not Practice	1.02	0.94	1.12	0.6097	

State Cumulative Case Rate	1.08	1.04	1.14	0.0005	**
State Cumulative Death Rate	1.40	1.18	1.68	0.0002	**
Average Daily Pos Test Rate (Nov.)	0.95	0.94	0.97	4.12E-06	***
County % without HS Degree	1.01	1.00	1.02	0.0240	*

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 10: IPW Analysis – IPW analysis utilizing the probability of receiving a COVID-19 test as an inverse probability weight.

Variable	Reference Group	A IPW Trim (0.5,0.95) n=4,837					B IPW Trim (0.1,0.9) n=4,837				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	1.62	1.24	2.10	0.0003	**	1.62	1.25	2.10	0.0003	**
Age [18,30)	65+	2.64	1.72	4.05	8.47E-06	***	2.68	1.77	4.07	3.32E-06	***
Age [30,45)		2.03	1.46	2.84	3.24E-05	***	2.01	1.45	2.79	2.86E-05	***
Age [45,55)		2.07	1.50	2.87	1.11E-05	***	2.04	1.49	2.81	1.07E-05	***
Age [55,65)		1.42	1.06	1.90	0.0193	*	1.42	1.06	1.89	0.0175	*
Essential Healthcare	Nonessential	1.28	1.04	1.59	0.0201	*	1.28	1.04	1.58	0.0207	*
Other Essential		1.16	0.87	1.53	0.3193		1.14	0.87	1.51	0.3434	
Furloughed/Job Seeker	Employed	1.20	0.85	1.70	0.2991		1.23	0.88	1.74	0.2279	
Unemployed		0.97	0.74	1.27	0.8379		0.98	0.75	1.27	0.8633	
African American/Black	White	4.01	2.87	5.61	6.26E-16	***	3.98	2.85	5.55	5.20E-16	***
Hispanic/Latinx		1.83	1.28	2.63	0.0009	**	1.79	1.26	2.53	0.0010	*
Asian		1.78	1.01	3.16	0.0474	*	1.76	1.00	3.12	0.0510	
Multiracial/Other		1.66	1.18	2.33	0.0037	*	1.62	1.16	2.28	0.0051	*
1 Preexisting	0	1.58	1.22	2.05	0.0006	**	1.59	1.23	2.04	0.0003	**
2 Preexisting		1.23	0.93	1.63	0.1503		1.26	0.96	1.66	0.0970	
3+ Preexisting		1.63	1.22	2.17	0.0009	**	1.64	1.24	2.17	0.0005	**
Preexisting Not Say		0.73	0.15	3.51	0.6933		0.79	0.17	3.72	0.7646	
Parent	Not a Parent	1.41	1.11	1.78	0.0044	*	1.40	1.12	1.76	0.0037	*
Income 0-40K		1.65	1.03	2.63	0.0365	*	1.66	1.05	2.63	0.0306	*
Income 40-70K		1.77	1.34	2.32	4.70E-05	***	1.75	1.34	2.29	4.75E-05	***
Income 70-100K		1.36	1.05	1.76	0.0191	*	1.34	1.04	1.72	0.0249	*
PopDensity 0-149	1000+	1.03	0.75	1.43	0.8506		1.03	0.75	1.42	0.8361	
PopDensity 150-999		1.18	0.96	1.46	0.1254		1.20	0.98	1.48	0.0810	
West	Northeast	0.65	0.39	1.09	0.1024		0.69	0.42	1.13	0.1373	
Midwest		0.94	0.59	1.49	0.7909		1.01	0.64	1.58	0.9771	
South		1.21	0.77	1.88	0.4078		1.23	0.80	1.89	0.3354	
Answered before Pfizer EUA	After Pfizer EUA	1.78	1.47	2.14	2.64E-09	***	1.78	1.48	2.14	1.36E-09	***

Practiced Protective Behavior	Did Not Practice	0.92	0.76	1.12	0.4286	0.93	0.77	1.13	0.4940
State Cumulative Case Rate		1.01	0.91	1.12	0.8462	1.01	0.91	1.11	0.9124
State Cumulative Death Rate		0.83	0.56	1.23	0.3537	0.85	0.58	1.25	0.4028
Average Daily Pos Test Rate (Nov.)		0.97	0.93	1.02	0.2570	0.97	0.93	1.02	0.2324
County % without HS Degree		1.02	1.00	1.04	0.0633	1.02	1.00	1.04	0.0630
Tested Positive	Tested Negative	1.25	0.79	1.96	0.3443	1.26	0.80	1.97	0.3154

*: $p < 0.05$

**: $p < 0.001$

***: $p < 0.0001$

Supplementary Table 11: Interim uptake analyses - Interim analyses for the weighting procedure of the vaccine uptake analysis. Left is the weighted model to predict if a user responded to the vaccine uptake question, while right is the weighted model for predicting if a user was offered a vaccine.

Variable	Reference Group	A Responded to Vaccine Uptake Question (n = 23,782)					B Offered Vaccine (n = 18,928)				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	0.92	0.86	0.98	0.0142	*	1.09	1.00	1.20	0.0615	
Age [18,30)	65+	0.35	0.31	0.40	4.06E-69	***	0.05	0.04	0.06	5.78E-264	***
Age [30,45)		0.45	0.41	0.50	2.90E-57	***	0.09	0.08	0.11	8.67E-215	***
Age [45,55)		0.65	0.59	0.72	6.45E-17	***	0.15	0.13	0.17	2.06E-139	***
Age [55,65)		0.88	0.81	0.97	0.0079	*	0.26	0.23	0.30	3.56E-80	***
Essential Healthcare	Nonessential	0.84	0.77	0.92	0.0002	**	3.90	3.30	4.60	1.06E-57	***
Other Essential		0.95	0.87	1.05	0.3164		0.72	0.65	0.80	3.23E-09	***
Furloughed/Job Seeker	Employed	0.93	0.83	1.05	0.2525		0.61	0.53	0.70	1.96E-12	***
Unemployed		1.18	1.09	1.28	6.29E-05	***	0.72	0.65	0.80	1.51E-10	***
African American/Black	White	1.32	1.16	1.50	1.85E-05	***	0.96	0.80	1.14	0.6345	
Hispanic/Latinx		1.00	0.89	1.12	0.9905		1.00	0.85	1.17	0.9727	
Asian		1.04	0.89	1.22	0.5928		0.98	0.77	1.24	0.8396	
Multiracial/Other		1.22	1.09	1.37	0.0007	**	0.80	0.70	0.92	0.0016	*
1 Preexisting	0	0.97	0.90	1.05	0.4792		1.03	0.93	1.13	0.5779	
2 Preexisting		0.93	0.86	1.02	0.1189		1.13	1.01	1.25	0.0335	*
3+ Preexisting		1.04	0.95	1.15	0.3825		1.01	0.90	1.14	0.8321	
Preexisting Not Say		1.14	0.83	1.56	0.4264		1.06	0.74	1.51	0.7608	
Parent	Not a Parent	0.85	0.79	0.91	6.41E-06	***	0.89	0.82	0.98	0.0120	*
Income 0-40K	100K+	1.07	0.91	1.24	0.4178		0.98	0.80	1.20	0.8425	
Income 40-70K		1.06	0.97	1.15	0.2059		0.98	0.88	1.09	0.6805	
Income 70-100K		1.10	1.02	1.19	0.0179	*	0.99	0.90	1.09	0.8639	
PopDensity 0-149	1000+	0.83	0.75	0.92	0.0002	**	0.91	0.80	1.04	0.1681	
PopDensity 150-999		0.85	0.80	0.91	4.20E-06	***	1.02	0.93	1.11	0.6911	
West	Northeast	1.11	0.95	1.30	0.1842		0.96	0.79	1.17	0.6803	
Midwest		1.05	0.92	1.21	0.470		0.91	0.77	1.09	0.3125	
South		1.02	0.89	1.17	0.7614		0.87	0.73	1.04	0.1201	
Practiced Protective Behavior	Did Not Practice	0.62	0.58	0.66	1.35E-51	***	0.66	0.61	0.72	3.38E-24	***

State Cumulative Case Rate		0.98	0.95	1.01	0.2732	1.01	0.97	1.05	0.720
State Cumulative Death Rate		1.09	0.96	1.23	0.1729	1.03	0.88	1.21	0.7137
Average Daily Pos Test Rate (Nov.)		1.01	0.99	1.02	0.2767	1.00	0.98	1.01	0.6282
County % without HS Degree		0.99	0.99	1.00	0.1606	1.01	1.00	1.02	0.1056
Received COVID Test	Never Received Test	0.94	0.86	1.02	0.1488	1.23	1.09	1.38	0.0005 **
Vaccine Acceptance - Unlikely	Vaccine Acceptance - Likely	0.84	0.75	0.94	0.0029 *	0.51	0.44	0.59	2.53E-19 ***
Vaccine Acceptance - Undecided	Vaccine Acceptance - Likely	0.91	0.83	0.99	0.0363 *	0.57	0.51	0.64	1.33E-22 ***

*: p < 0.05

**: p < 0.001

***: p < 0.0001

Supplementary Table 12: Vaccination Uptake Analyses - Unweighted model for predicting vaccine uptake (left) and a weighted model for predicting vaccine uptake accounting for non-response bias and biases associated with being offered a vaccine.

Variable	Reference Group	A Unweighted Uptake Analysis (n = 18,928)					B Weighted Uptake Analysis (n = 18,928)				
		OR	Lower 95% CI	Upper 95% CI	P-Value	Sig	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	0.74	0.52	1.03	0.0808		0.90	0.60	1.33	0.5868	
Age [18,30)	65+	0.13	0.08	0.20	2.41E-18 ***		0.10	0.06	0.18	1.43E-16 ***	
Age [30,45)		0.23	0.16	0.34	7.06E-14 ***		0.20	0.13	0.31	1.29E-13 ***	
Age [45,55)		0.40	0.27	0.59	3.94E-06 ***		0.38	0.25	0.57	3.68E-06 ***	
Age [55,65)		0.57	0.39	0.82	0.0025 *		0.55	0.37	0.81	0.0029 *	
Essential Healthcare	Nonessential	0.69	0.53	0.92	0.0107 *		0.74	0.54	1.01	0.0540	
Other Essential		0.65	0.48	0.90	0.0077 *		0.64	0.44	0.92	0.0162 *	
Furloughed/Job Seeker	Employed	0.92	0.61	1.41	0.6821		0.96	0.60	1.56	0.8841	
Unemployed		1.00	0.74	1.36	0.9874		0.86	0.61	1.22	0.3991	
African American/Black	White	0.74	0.52	1.08	0.1129		0.58	0.38	0.91	0.0165 *	
Hispanic/Latinx		0.80	0.54	1.21	0.2790		1.07	0.62	1.84	0.8080	
Asian		2.23	0.86	7.69	0.1432		2.45	0.78	7.73	0.1266	
Multiracial/Other		0.79	0.53	1.20	0.2465		0.72	0.43	1.21	0.2164	
1 Preexisting	0	0.85	0.63	1.14	0.2869		0.99	0.69	1.43	0.9620	
2 Preexisting		0.88	0.64	1.21	0.4216		1.00	0.69	1.46	0.9995	
3+ Preexisting		0.87	0.62	1.22	0.4198		1.05	0.70	1.60	0.8072	
Preexisting Not Say		0.41	0.17	1.11	0.0561		0.95	0.22	4.14	0.9412	
Parent	Not a Parent	0.78	0.60	1.01	0.0584		0.63	0.45	0.89	0.0086 *	
Income 0-40K	100K+	0.81	0.46	1.44	0.4642		0.79	0.39	1.62	0.5221	
Income 40-70K		0.53	0.37	0.76	0.0007 **		0.56	0.37	0.85	0.0066 *	
Income 70-100K		0.64	0.44	0.91	0.0139 *		0.63	0.42	0.96	0.0316 *	
PopDensity 0-149	1000+	0.48	0.35	0.67	1.82E-05 ***		0.53	0.34	0.82	0.0049 *	
PopDensity 150-999		0.79	0.61	1.01	0.0581		0.81	0.59	1.11	0.1841	
West	Northeast	0.87	0.50	1.49	0.6039		0.95	0.50	1.79	0.8640	
Midwest		0.75	0.46	1.22	0.2380		0.73	0.43	1.23	0.2372	
South		0.62	0.38	1.01	0.0563		0.69	0.40	1.17	0.1669	
Practiced Protective Behavior	Did Not Practice	1.17	0.91	1.53	0.2209		1.06	0.79	1.41	0.7170	
State Cumulative Case Rate		0.95	0.85	1.06	0.3754		0.99	0.86	1.13	0.8526	
State Cumulative Death Rate		0.83	0.54	1.28	0.4071		0.90	0.55	1.46	0.6601	
Average Daily Pos Test Rate (Nov.)		0.98	0.94	1.02	0.3269		0.97	0.92	1.02	0.1763	

County % without HS Degree		1.00	0.97	1.02	0.8621		0.99	0.96	1.02	0.6456
Received COVID Test	Never Received Test	1.00	0.73	1.39	0.9845		1.05	0.75	1.49	0.7635
Vaccine Acceptance - Unlikely	Vaccine Acceptance - Likely	0.02	0.01	0.02	2.25E-183 ***		0.02	0.01	0.03	2.07E-114 ***
Vaccine Acceptance - Undecided	Vaccine Acceptance - Likely	0.08	0.06	0.11	1.22E-67 ***		0.08	0.06	0.12	1.06E-39 ***

*: p < 0.05

**: p < 0.001

***: p < 0.0001

Supplementary Table 13: Reluctant User Analysis - Weighted vaccine uptake model
for only users that responded as "reluctant" to the vaccine intent question.

		Vaccine Uptake Analysis for Reluctant Users (n = 2,520)				
Variable	Reference Group	OR	Lower 95% CI	Upper 95% CI	P-Value	Sig
Female	Male	0.68	0.44	1.06	0.0894	
Age [18,30)	65+	0.14	0.07	0.25	5.48E-10	***
Age [30,45)		0.27	0.16	0.45	4.79E-07	***
Age [45,55)		0.40	0.24	0.66	0.0003	**
Age [55,65)		0.60	0.37	0.99	0.0460	*
Essential Healthcare	Nonessential	0.66	0.47	0.94	0.0222	*
Other Essential		0.65	0.44	0.97	0.0336	*
Furloughed/Job Seeker	Employed	1.18	0.69	2.01	0.5501	
Unemployed		1.11	0.74	1.66	0.6231	
African American/Black	White	0.76	0.50	1.15	0.1908	
Hispanic/Latinx		0.98	0.57	1.68	0.9379	
Asian		3.18	0.70	14.42	0.1337	
Multiracial/Other		0.80	0.46	1.38	0.4241	
1 Preexisting	0	0.97	0.67	1.39	0.8504	
2 Preexisting		0.87	0.59	1.29	0.4989	
3+ Preexisting		0.94	0.61	1.44	0.7672	
Preexisting Not Say		2.34	0.61	8.98	0.2158	
Parent	Not a Parent	0.79	0.57	1.10	0.1565	
Income 0-40K	100K+	1.15	0.55	2.38	0.7143	
Income 40-70K		0.60	0.39	0.90	0.0149	*
Income 70-100K		0.80	0.52	1.23	0.3099	
PopDensity 0-149	1000+	0.48	0.31	0.75	0.0012	*
PopDensity 150-999		0.79	0.58	1.08	0.1428	
West	Northeast	0.76	0.39	1.51	0.4392	
Midwest		0.75	0.41	1.37	0.3510	
South		0.66	0.36	1.20	0.1764	
Practiced Protective Behavior	Did Not Practice	0.91	0.67	1.25	0.5592	
State Cumulative Case Rate		0.93	0.80	1.08	0.3527	
State Cumulative Death Rate		0.79	0.46	1.36	0.3954	
Average Daily Pos Test Rate (Nov.)		0.99	0.93	1.04	0.6154	
County % without HS Degree		0.99	0.96	1.03	0.6810	
Received COVID Test	Never Received Test	0.90	0.60	1.35	0.6181	
Vaccine Acceptance - Undecided	Vaccine Acceptance - Unlikely	4.57	3.47	6.03	2.26E-26	***

*: p < 0.05

**: p < 0.001

***: p < 0.0001