Supplemental materials for

Van Scoy L, Miller EL, Snyder B, et al. Knowledge, perceptions, and preferred information sources related to COVID-19 zmong Central Pennsylvania adults early in the pandemic: a mixed methods cross-sectional survey. *Ann Fam Med*. May 2021. Doi:10.1370/afm.2674.

Supplemental Tables 1-6

Supplemental Table 1. Knowledge by Education Subgroups (N=5948)									
		Missing Knowledge	Weighted If Stratified by Ed	Modeling Probability of Correct Response					
Question	Correct ^b	Response and Confidence Weight (N) °	< Bachelor's Degree (N = 2413)	≥ Bachelor's Degree (N = 3523)	OR (95% CL) ≥ Bachelor's Degree vs. < Bachelor's Degree				
^a Treatments for the symptoms of COVID-19 are available without a prescription.	True	19	0.37 (0.35, 0.40)	0.44 (0.42, 0.46)	1.33 (1.16, 1.53)				
^a Most hospitalized patients with COVID-19 should be treated in an ICU.	False	25	0.58 (0.55, 0.60)	0.69 (0.67, 0.71)	1.66 (1.42, 1.93)				
The CDC recommends using corticosteroids for COVID-19 patients with acute respiratory distress syndrome (ARDS).	False	176	0.54 (0.51, 0.58)	0.59 (0.57, 0.62)	1.24 (1.03, 1.49)				
COVID-19 is the first coronavirus to cause disease in humans.	False	27	0.92 (0.90, 0.93)	0.96 (0.95, 0.97)	2.22 (1.70, 2.91)				
^a Patients with shortness of breath, fever, and cough should call the emergency room prior to arrival.	True	21	0.88 (0.86, 0.90)	0.90 (0.89, 0.91)	1.21 (0.99, 1.47)				
Patients whose <u>first</u> (early) symptoms are severe are more likely to die from COVID-19 than those whose <u>first</u> (early) symptoms are less severe.	False	47	0.77 (0.74, 0.79)	0.77 (0.75, 0.79)	1.01 (0.84, 1.21)				
^a Children ages 5 and under are at higher risk of death from COVID-19.	False	33	0.81 (0.79, 0.83)	0.92 (0.91, 0.93)	2.59 (2.10, 3.18)				
In someone who has not received the measles vaccine, measles is more contagious than COVID-19.	True	62	0.36 (0.33, 0.39)	0.48 (0.45, 0.50)	1.62 (1.38, 1.90)				

The incubation period for the coronavirus that causes COVID-19 is up to 21 days.	False	39	0.47 (0.44, 0.50)	0.48 (0.45, 0.50)	1.03 (0.89, 1.19)
^a Healthy people should wear facemasks to help prevent the spread of COVID-19.	False	20	0.79 (0.77, 0.81)	0.89 (0.87, 0.90)	2.03 (1.71, 2.42)
^a A vaccine for COVID-19 should be available within approximately 3 months.	False	26	0.86 (0.84, 0.87)	0.95 (0.94, 0.95)	2.96 (2.34, 3.74)
CDC recommends the use of alcohol-based hand sanitizers with greater than 60% ethanol or 70% isopropanol.	True	34	0.92 (0.91, 0.93)	0.94 (0.93, 0.95)	1.28 (0.99, 1.66)
Currently, the CDC recommends that everyone with COVID-19 symptoms should get tested.	False	28	0.42 (0.39, 0.45)	0.60 (0.58, 0.62)	2.05 (1.78, 2.35)
^a Everyone who tests positive for COVID-19 should be treated with hydroxychloroquine (Plaquenil ®) or chloroquine.	False	39	0.89 (0.87, 0.91)	0.97 (0.96, 0.98)	4.08 (3.05, 5.45)
^a COVID-19 testing is not recommended for individuals with no symptoms, even if they were exposed to someone with confirmed COVID-19 within the past 2 weeks.	True	20	0.68 (0.65, 0.70)	0.73 (0.71, 0.75)	1.31 (1.12, 1.53)
Total Score (15-Item)	616	0.70 (0.69, 0.71)	0.78 (0.77, 0.78)	1.51 (1.45, 1.57)	
Total Score (8-Item)	616	0.74 (0.73, 0.75)	0.82 (0.82, 0.83)	1.64 (1.55, 1.73)	

Statistically significant comparisons are **bolded** (adjusted *p* < 0.05 for individual items; *p* < 0.05 for 8- and 15-item composites)

a Item belongs to selected 8-item subset.

^b Correct response according to information publically available from the Centers for Disease Prevention and Control website as of the date the survey was distributed (03/25/2020).

^c Simple imputation was used for confidence items where respondents answered the knowledge component, but skipped the corresponding confidence component (N = 170 imputed confidence level values). After imputing confidence levels, any item missing a knowledge response was also missing a confidence level, and vice versa.

^d The statistical model used to calculate weighted predicted probabilities of correct responses (and corresponding 95% confidence limits) while accounting for the corresponding confidence in the response excluded N = 616 missing knowledge response questions and N = 616 missing weight values. Note that N = 616 reflects the number of items, not the number of patient respondents.

^e Less than a Bachelor's Degree includes the highest level of education completed as: Did not finish high school, High School, Some college, Associate's degree. Bachelor's Degree or higher includes the highest level of education completed as: Bachelor's degree or Graduate degree. N = 12 respondents were missing values for highest level of completed education (excluded N = 12 respondents; N = 180 missing fixed [subject] effects). N = 5936 patient respondents were included in the analysis for a total of N = 88428 observations used.

Supplemental Table 2. Knowledge by Race Subgroups (N=5948)									
		Missing Knowledge	Weighted If Stratified		Modeling Probability of Correct Response				
Question	Correct ^b	Response and Confidence Weight (N) °	Non-White (N = 271)	White (N = 5473)	OR (95% CL) White vs. Non-White				
^a Treatments for the symptoms of COVID-19 are available without a prescription.	True	19	0.41 (0.34, 0.49)	0.42 (0.40, 0.43)	1.02 (0.74, 1.41)				
^a Most hospitalized patients with COVID-19 should be treated in an ICU.	False	25	0.59 (0.51, 0.67)	0.65 (0.63, 0.67)	1.29 (0.93, 1.80)				
The CDC recommends using corticosteroids for COVID-19 patients with acute respiratory distress syndrome (ARDS).	False	176	0.56 (0.46, 0.66)	0.57 (0.55, 0.60)	1.05 (0.69, 1.61)				
COVID-19 is the first coronavirus to cause disease in humans.	False	27	0.91 (0.86, 0.94)	0.95 (0.94, 0.95)	1.78 (1.06, 3.00)				
^a Patients with shortness of breath, fever, and cough should call the emergency room prior to arrival.	True	21	0.89 (0.84, 0.93)	0.89 (0.88, 0.90)	1.00 (0.62, 1.60)				
Patients whose <u>first</u> (early) symptoms are severe are more likely to die from COVID-19 than those whose <u>first</u> (early) symptoms are less severe.	False	47	0.77 (0.68, 0.83)	0.77 (0.75, 0.79)	1.03 (0.67, 1.59)				
^a Children ages 5 and under are at higher risk of death from COVID-19.	False	33	0.77 (0.69, 0.83)	0.89 (0.87, 0.90)	2.37 (1.61, 3.49)				
In someone who has not received the measles vaccine, measles is more contagious than COVID-19.	True	62	0.38 (0.30, 0.47)	0.43 (0.41, 0.45)	1.22 (0.85, 1.76)				
The incubation period for the coronavirus that causes COVID-19 is up to 21 days.	False	39	0.45 (0.37, 0.53)	0.48 (0.46, 0.50)	1.12 (0.80, 1.58)				
^a Healthy people should wear facemasks to help prevent the spread of COVID-19.	False	20	0.70 (0.63, 0.76)	0.86 (0.85, 0.87)	2.62 (1.88, 3.65)				
^a A vaccine for COVID-19 should be available within approximately 3 months.	False	26	0.88 (0.82, 0.92)	0.92 (0.91, 0.92)	1.51 (0.94, 2.43)				
CDC recommends the use of alcohol-based hand sanitizers with greater than 60% ethanol or 70% isopropanol.	True	34	0.94 (0.89, 0.96)	0.93 (0.92, 0.94)	0.91 (0.48, 1.70)				
Currently, the CDC recommends that everyone with COVID-19 symptoms should get tested.	False	28	0.37 (0.30, 0.44)	0.53 (0.52, 0.55)	1.98 (1.43, 2.76)				
^a Everyone who tests positive for COVID-19 should be treated with hydroxychloroquine (Plaquenil ®) or chloroquine.	False	39	0.90 (0.84, 0.94)	0.94 (0.94, 0.95)	1.91 (1.13, 3.25)				

^a COVID-19 testing is not recommended for individuals with no symptoms, even if they were exposed to someone with confirmed COVID-19 within the past 2 weeks.	20	0.51 (0.43, 0.59)	0.72 (0.71, 0.74)	2.52 (1.79, 3.54)
Total Score (15-Item)	616	0.68 (0.66, 0.70)	0.75 (0.75, 0.76)	1.41 (1.29, 1.54)
Total Score (8-Item)	616	0.71 (0.69, 0.74)	0.80 (0.79, 0.80)	1.57 (1.38, 1.77)

Statistically significant comparisons are **bolded** (adjusted p < 0.05 for individual items; p < 0.05 for 8- and 15-item composites) ^a Item belongs to selected 8-item subset.

^b Correct response according to information publically available from the Centers for Disease Prevention and Control website as of the date the survey was distributed (03/25/2020).^{cc} Simple imputation was used for confidence items where respondents answered the knowledge component, but skipped the corresponding confidence component (N = 170 imputed confidence level values). After imputing confidence levels, any item missing a knowledge response was also missing a confidence level, and vice versa.

^d The statistical model used to calculate weighted predicted probabilities of correct responses (and corresponding 95% confidence limits) while accounting for the corresponding confidence in the response excluded N = 616 missing knowledge response questions and N = 616 missing weight values. Note that N = 616 reflects the number of items, not the number of patient respondents.

^e Non-White Race includes American Indian or Alaska Native, Asian, Black or African American, Hispanic or Latino, Native Hawaiian or Pacific Islander. N = 204 respondents were missing values for race, or reported that they would 'Prefer not to answer' (excluded N = 204 respondents; N = 3060 missing fixed [subject] effects). N = 5744 patient respondents were included in the analysis for a total of N = 85571 observations used.

Supplemental Table 3. Knowledge by Age Subgroups (N=5948)									
Question	Correct	Missing Knowledge Response and	Weighted Stratified by	Modeling Probability of Correct Response					
		Confidence Weight (N) °	< 60 (N = 3057)	≥ 60 (N = 2863)	OR (95% CL) ≥ 60 vs. < 60				
^a Treatments for the symptoms of COVID-19 are available without a prescription.	True	19	0.48 (0.46, 0.50)	0.35 (0.33, 0.37)	0.58 (0.51, 0.67)				
^a Most hospitalized patients with COVID-19 should be treated in an ICU.	False	25	0.64 (0.61, 0.66)	0.66 (0.63, 0.68)	1.10 (0.94, 1.27)				
The CDC recommends using corticosteroids for COVID-19 patients with acute respiratory distress syndrome (ARDS).	False	176	0.53 (0.50, 0.56)	0.62 (0.58, 0.65)	1.42 (1.19, 1.7 0)				
COVID-19 is the first coronavirus to cause disease in humans.	False	27	0.94 (0.93, 0.95)	0.95 (0.94, 0.96)	1.11 (0.85, 1.45)				
^a Patients with shortness of breath, fever, and cough should call the emergency room prior to arrival.	True	21	0.91 (0.90, 0.92)	0.87 (0.85, 0.88)	0.64 (0.52, 0.78)				
Patients whose <u>first</u> (early) symptoms are severe are more likely to die from COVID-19 than those whose <u>first</u> (early) symptoms are less severe.	False	47	0.78 (0.75, 0.80)	0.77 (0.74, 0.79)	0.94 (0.78, 1.13)				
^a Children ages 5 and under are at higher risk of death from COVID-19.	False	33	0.86 (0.84, 0.88)	0.90 (0.88, 0.91)	1.45 (1.18, 1.79)				
In someone who has not received the measles vaccine, measles is more contagious than COVID-19.	True	62	0.45 (0.42, 0.48)	0.41 (0.38, 0.43)	0.83 (0.71, 0.97)				
The incubation period for the coronavirus that causes COVID-19 is up to 21 days.	False	39	0.49 (0.46, 0.51)	0.46 (0.43, 0.49)	0.90 (0.77, 1.03)				
^a Healthy people should wear facemasks to help prevent the spread of COVID-19.	False	20	0.84 (0.82, 0.85)	0.86 (0.85, 0.88)	1.22 (1.03, 1.46)				
^a A vaccine for COVID-19 should be available within approximately 3 months.	False	26	0.89 (0.88, 0.91)	0.93 (0.92, 0.94)	1.67 (1.33, 2.11)				
CDC recommends the use of alcohol-based hand sanitizers with greater than 60% ethanol or 70% isopropanol.	True	34	0.94 (0.92, 0.95)	0.93 (0.92, 0.94)	0.89 (0.69, 1.16)				

Currently, the CDC recommends that everyone with COVID-19 symptoms should get tested.	28	0.59 (0.56, 0.61)	0.46 (0.44, 0.48)	0.60 (0.53, 0.69)	
^a Everyone who tests positive for COVID-19 should be treated with hydroxychloroquine (Plaquenil ®) or chloroquine.	39	0.93 (0.92, 0.94)	0.95 (0.94, 0.96)	1.40 (1.07, 1.85)	
^a COVID-19 testing is not recommended for individuals with no symptoms, even if they were exposed to someone with confirmed COVID-19 within the past 2 weeks.	True	20	0.70 (0.68, 0.72)	0.72 (0.70, 0.74)	1.08 (0.93, 1.26)
Total Score (15-Item)	616	0.75 (0.75, 0.76)	0.74 (0.74, 0.75)	0.94 (0.90, 0.98)	
Total Score (8-Item)	616	0.79 (0.79, 0.80)	0.79 (0.78, 0.80)	0.98 (0.93, 1.04)	

Statistically significant comparisons are **bolded** (adjusted *p* < 0.05 for individual items; *p* < 0.05 for 8- and 15-item composites)

^a Item belongs to selected 8-item subset.

^b Correct response according to information publically available from the Centers for Disease Prevention and Control website as of the date the survey was distributed (03/25/2020).

^c Simple imputation was used for confidence items where respondents answered the knowledge component, but skipped the corresponding confidence component (N = 170 imputed confidence level values). After imputing confidence levels, any item missing a knowledge response was also missing a confidence level, and vice versa.

^d The statistical model used to calculate weighted predicted probabilities of correct responses (and corresponding 95% confidence limits) while accounting for the corresponding confidence in the response excluded N = 616 missing knowledge response questions and N = 616 missing weight values. Note that N = 616 reflects the number of items, not the number of patient respondents.

^e N = 28 respondents were missing values for age or provided typographical error values in the field [e.g. > 600 years] (excluded N = 28 respondents; N = 420 missing fixed [subject] effects). N = 5920 patient respondents were included in the analysis for a total of N = 88196 observations used.

Supplemental Table 4. Knowledge by Sex Subgroups (N=5948)									
Question	Correct	Missing Knowledge Response and	Weighted I Stratified	Modeling Probability of Correct Response					
		Confidence Weight (N) °	Female (N = 4006)	Male (N = 1883)	OR (95% CL) Male vs. Female				
^a Treatments for the symptoms of COVID-19 are available without a prescription.	True	19	0.43 (0.41, 0.45)	0.38 (0.35, 0.41)	0.80 (0.69, 0.93)				
^a Most hospitalized patients with COVID-19 should be treated in an ICU.	False	25	0.63 (0.61, 0.65)	0.68 (0.65, 0.70)	1.21 (1.03, 1.42)				
The CDC recommends using corticosteroids for COVID-19 patients with acute respiratory distress syndrome (ARDS).	False	176	0.56 (0.53, 0.58)	0.61 (0.57, 0.65)	1.26 (1.03, 1.53)				
COVID-19 is the first coronavirus to cause disease in humans.	False	27	0.94 (0.93, 0.95)	0.96 (0.95, 0.97)	1.45 (1.07, 1.96)				
^a Patients with shortness of breath, fever, and cough should call the emergency room prior to arrival.	True	21	0.91 (0.90, 0.92)	0.84 (0.82, 0.86)	0.51 (0.42, 0.63)				
Patients whose <u>first</u> (early) symptoms are severe are more likely to die from COVID-19 than those whose <u>first</u> (early) symptoms are less severe.	False	47	0.77 (0.75, 0.79)	0.77 (0.74, 0.79)	0.97 (0.79, 1.18)				
^a Children ages 5 and under are at higher risk of death from COVID- 19.	False	33	0.89 (0.87, 0.90)	0.86 (0.84, 0.88)	0.81 (0.66, 1.01)				
In someone who has not received the measles vaccine, measles is more contagious than COVID-19.	True	62	0.41 (0.39, 0.44)	0.46 (0.42, 0.49)	1.18 (1.00, 1.39)				
The incubation period for the coronavirus that causes COVID-19 is up to 21 days.	False	39	0.49 (0.46, 0.51)	0.45 (0.42, 0.48)	0.86 (0.74, 1.00)				
^a Healthy people should wear facemasks to help prevent the spread of COVID-19.	False	20	0.86 (0.85, 0.88)	0.82 (0.79, 0.84)	0.71 (0.59, 0.85)				
^a A vaccine for COVID-19 should be available within approximately 3 months.	False	26	0.90 (0.89, 0.92)	0.93 (0.91, 0.94)	1.35 (1.05, 1.73)				
CDC recommends the use of alcohol-based hand sanitizers with greater than 60% ethanol or 70% isopropanol.	True	34	0.93 (0.92, 0.94)	0.93 (0.91, 0.94)	0.94 (0.71, 1.23)				

Currently, the CDC recommends that everyone with COVID-19 symptoms should get tested.	28	0.55 (0.53, 0.57)	0.47 (0.44, 0.50)	0.71 (0.61, 0.82)
^a Everyone who tests positive for COVID-19 should be treated with hydroxychloroquine (Plaquenil ®) or chloroquine.	39	0.94 (0.93, 0.95)	0.95 (0.93, 0.96)	1.16 (0.87, 1.56)
^a COVID-19 testing is not recommended for individuals with no symptoms, even if they were exposed to someone with confirmed COVID-19 within the past 2 weeks.	20	0.72 (0.71, 0.74)	0.68 (0.65, 0.71)	0.81 (0.69, 0.96)
Total Score (15-Item)	616	0.75 (0.75, 0.76)	0.74 (0.73, 0.75)	0.94 (0.90, 0.98)
Total Score (8-Item)	616	0.80 (0.79, 0.80)	0.78 (0.77, 0.79)	0.89 (0.83, 0.94)

Statistically significant comparisons are **bolded** (adjusted *p* < 0.05 for individual items; *p* < 0.05 for 8- and 15-item composites)

^a Item belongs to selected 8-item subset.

^b Correct response according to information publically available from the Centers for Disease Prevention and Control website as of the date the survey was distributed (03/25/2020).

^c Simple imputation was used for confidence items where respondents answered the knowledge component, but skipped the corresponding confidence component (N = 170 imputed confidence level values). After imputing confidence levels, any item missing a knowledge response was also missing a confidence level, and vice versa.

^d The statistical model used to calculate weighted predicted probabilities of correct responses (and corresponding 95% confidence limits) while accounting for the corresponding confidence in the response excluded N = 616 missing knowledge response questions and N = 616 missing weight values. Note that N = 616 reflects the number of items, not the number of patient respondents.

• N = 59 respondents were missing values for sex, provided a non-binary response, or reported that they would 'Prefer not to answer' (excluded N = 59 respondents; N = 885 missing fixed [subject] effects). N = 5889 patient respondents were included in the analysis for a total of N = 87722 observations used.

Supplemental Table 5	Efficacy Beliefs a	nd Willingness to Fo	llow Behaviors	Proposed by (CDC Recomm	endations and G	Buidelines						
N = 59	44			Avoiding Tra	vel Belief vs.	Follow							
		Will you follow av	voiding travel?										
ICC (95% 0.76 (0.72		Missing Certainly not Probably not Probably Probably yes ce											
	Missing	4 (0.1)	1 (0.0)	1 (0.0)	1 (0.0)	8 (0.1)	51 (0.9)	66 (1.1)					
	Certainly not	0 (0.0)	10 (0.2)	1 (0.0)	2 (0.0)	2 (0.0)	3 (0.1)	18 (0.3)					
	Probably not	1 (0.0)	6 (0.1)	23 (0.4)	17 (0.3)	14 (0.2)	10 (0.2)	71 (1.2)					
Do you think that avoiding travel will	Maybe	4 (0.1)	3 (0.1)	21 (0.4)	76 (1.3)	106 (1.8)	78 (1.3)	288 (4.8)					
decrease the spread of COVID-19 in your	Probably yes	7 (0.1)	8 (0.1)	5 (0.1)	56 (0.9)	474 (8.0)	713 (12.0)	1263 (21.2)					
community?	Most certainly	31 (0.5)	9 (0.2)	7 (0.1)	22 (0.4)	179 (3.0)	3994 (67.2)	4242 (71.3)					
	Total	47 (0.8)	37 (0.6)	58 (1.0)	174 (2.9)	783 (13.2)	4849 (81.5)	5948					
N = 59)44		Elbow Covering Belief vs. Follow										
		Will you follow coughing or sneezing into your elbow?											
ICC (95% 0.59 (0.56		Missing	Certainly not	Probably not	Maybe	Probably yes	Most certainly	Total					
	Missing	4 (0.1)	0 (0.0)	1 (0.0)	1 (0.0)	2 (0.0)	45 (0.8)	53 (0.9)					
	Certainly not	1 (0.0)	10 (0.2)	1 (0.0)	6 (0.1)	6 (0.1)	8 (0.1)	32 (0.5)					
Do you think that	Probably not	0 (0.0)	2 (0.0)	16 (0.3)	28 (0.5)	49 (0.8)	77 (1.3)	172 (2.9)					
coughing or sneezing into your	Maybe	2 (0.0)	3 (0.1)	10 (0.2)	61 (1.0)	171 (2.9)	471 (7.9)	718 (12.1)					
elbow will decrease the spread of COVID- 19 in your community?	Probably yes	17 (0.3)	6 (0.1)	4 (0.1)	21 (0.4)	297 (5.0)	1289 (21.7)	1634 (27.5)					
	Most certainly	39 (0.7)	4 (0.1)	2 (0.0)	4 (0.1)	89 (1.5)	3201 (53.8)	3339 (56.1)					
	Total	63 (1.1)	25 (0.4)	34 (0.6)	121 (2.0)	614 (10.3)	5091 (85.6)	5948					
ICC Not Re	portable			Hand Washi	ng Belief vs. I	Follow							

		Will you follow wa	shing your hands often?						
		Missing	Certainly not + Probably not + Maybe	Probably yes + Most certainly	Total				
Do you think that	Missing	1 (0.0)	0 (0.0)	24 (0.4)	25 (0.4)				
washing your hands often (for 20 seconds or more)	Certainly not + Probably not + Maybe	5 (0.1)	37 (0.6)	300 (5.0)	342 (5.8)				
will decrease the spread of COVID-19	Probably yes + Most certainly	62 (1.0)	34 (0.6)	5485 (92.2)	5581 (93.8)				
in your community?	Total	68 (1.1)	71 (1.2)	5809 (97.7)	5948				
		Avoiding Infected Contact Belief vs. Follow							
ICC Not Re	portable	Will you follow avoiding close contact with people who are sick (excluding patients, if you are a healthcare worker)?							
		Missing	Certainly not + Probably not + Maybe	Probably yes + Most certainly	Total				
Do you think that	Missing	4 (0.0)	1 (0.0)	44 (0.7)	49 (0.8)				
avoiding close contact with people who are sick will decrease the spread of COVID-19 in your	Certainly not + Probably not + Maybe	0 (0.0)	30 (0.5)	119 (2.0)	149 (2.5)				
	Probably yes + Most certainly	83 (1.4)	58 (1.0)	5609 (94.3)	5750 (96.7)				
community?	Total	87 (1.5)	89 (1.5)	5772 (97.0)	5948				

Reported frequency (percent). The sample size reported for the ICC excludes only those respondents missing values for both measures.

Supplemental Table 6. Perceptions about Likelihood of Contraction and Severity of COVID-19 measured using quantitative survey and the corresponding qualitative themes

_		COVID-1	Related Qualitative Themes & Quotes					
<mark>n</mark> = 5941 ICC (95% CL)	n = 5941 How concerned would you be if you were diagnosed with COVID-19 in the next year?							Theme 3. Participants worry about
0.19 (0.16, 0.22)	Missing	Not at all concerned	Not concerned	Slightly concerned	Concerned	Very concerned	Total	becoming ill and contracting COVID-

	Missing	7 (0.1)	3 (0.1)	3 (0.1)	8 (0.1)	13 (0.2)	26 (0.4)	60 (1.0)	related illness in themselves or loved ones.
	Very unlikel y	13 (0.2)	59 (1.0)	31 (0.5)	72 (1.2)	90 (1.5)	156 (2.6)	421 (7.1)	"My concerns are for my 95 year old mother, with underlying medical
	Unlikely	20 (0.3)	10 (0.2)	54 (0.9)	211 (3.6)	341 (5.7)	335 (5.6)	971 (16.3)	conditions. I am not concerned for myself."
	Possibly	72 (1.2)	12 (0.2)	48 (0.8)	489 (8.2)	1304 (21.9)	1591 (26.8)	3516 (59.1)	Theme 4. Participants concerned about issues related to epidemiologic
How likely is it that you	Likely	14 (0.2)	6 (0.1)	11 (0.2)	94 (1.6)	278 (4.7)	354 (6.0)	757 (12.7)	and public health issues. <i>"I worry that people aren't taking this</i>
will be diagnose d with COVID-19 over the next year?	Very Likely	5 (0.1)	9 (0.2)	7 (0.1)	20 (0.3)	49 (0.8)	133 (2.2)	223 (3.8)	seriously. Seeing social media posts about fellow Americans being cavalier about social distancing is very troublesomethey don't see the bigger picture" Theme 5. Participant anxieties were related to economic and societal
	Total	131 (2.2)	99 (1.7)	154 (2.6)	894 (15.0)	2075 (34.9)	2595 (43.6)	5948	disruptions. "The massive amount of layoffs and the economic impact of quarantines. That is going to have a potentially much further reaching and longer- lasting impact than lack of ventilators and hospital beds. "(

Reported frequency (percent). The sample size reported for the ICC excludes only those respondents missing values for both measures.

		Flu Likelihood vs. Concern of Diagnosis				
N = 5938 ICC (95% CL) 0.11 (0.07, 0.15)		How concerned would you be if you were diagnosed with the flu in the next year?				
		Missing	Not at all concerned + Not concerned	Slightly concerned + Concerned + Very concerned	Total	
How likely is it that you will be diagnosed with the flu	Missing	10 (0.2)	2 (0.0)	35 (0.6)	47 (0.8)	
	Very unlikely + Unlikely	25 (0.4)	693 (11.7)	1336 (22.5)	2054 (34.5)	
	Possibly + Likely + Very Likely	38 (0.6)	1016 (17.1)	2793 (47.0)	3847 (64.7,	
over the next year?	Total	73 (1.2)	1711 (28.8)	4164 (70.0)	5948	

Information Source	What is your current, single most trusted source for information about health issues like COVID-19 (Please pick one).	What other information sources do you use for information about health issues like COVID- 19? (Select all that apply). ^a n (%)	Qualitative Themes and Subthemes
	n (%)		
	67 (1.1)	1157 (19.5)	Theme 6. Respondents are
Family & Friends	80 (1.3)	1416 (23.8)	distrustful of information
Instagram	4 (0.1)	123 (2.1)	provided by the federal
Internet: Government	2547 (42.8)	2397 (40.3)	government.
Websites (CDC, NIH,			"I am very concerned about the
WHO)	420 (7.4)	2725 (40.0)	number of people who refuse to
Internet: News Websites	439 (7.4)	2735 (46.0)	believe responsible, authoritative
Penn State Health	550 (9.3)	2264 (38.1)	sources because they have been
Communications	22 (0 5)	074(4.6)	conditioned by unscrupulous
Podcasts	32 (0.5)	274 (4.6)	politicians and others to distrust
Print News	102 (1.7)	1125 (18.9)	any authority they don't agree with.
Television News Channels	1620 (27.2)	2961 (49.8)	This is a threat to our way of life and health."
Twitter Radio	25 (0.4)	256 (4.3)	
	82 (1.4)	893 (15.0)	Theme 7. Negative and unsettled
Other Internet Sites	84 (1.4)	685 (11.5)	perceptions about media
Other Social Media	10 (0.2)	117 (2.0)	coverage of the pandemic.
Other	287 (4.8)	267 (4.5)	"I am very frustrated watching the
No Response Indicated	19 (0.3)	114 (1.9)	news and receiving differing
	ve NEW information? (Pick up		information from different sources."
Written (a letter)		822 (13.8)	"Sometimes difficult to sort out fact
Electronic (e-mail)		3967 (66.7)	from fiction as the mass media
Peer-reviewed journals of	-	1886 (31.7)	races to deliver that next scoop."
Television announcemen	ts	3290 (55.3)	"I continue to receive an overload of
Radio announcements		791 (13.3)	information through professional
Internet		3173 (53.4)	and organizational channels
No Response Indicated		86 (1.5)	repeated stimuli may be
	igh information about the COV		unnecessarily stressful"
I have received enough ir		2271 (38.2)	Theme 8. Unanswered questions
	nation I would like to know	2276 (38.3)	remain related to basic symptom
I have received SOME of know	the information I would like to	1008 (17.0)	management, testing and contagion.
I need a lot more information	tion	376 (6.3)	"I would like to know what a person at
Missing		17 (0.3)	home who may have these

Supplemental Table 8. Source and Media Type Preferences for Health and COVID-19 Information (n = 5948)

Are you concerned that you have received incerpandemic?	symptoms can use to treat him or her to alleviate the symptoms."	
No	3581 (60.2)	"I'd like to have a better
Yes	2318 (39.0)	understanding about tests. Where
Missing	49 (0.8)	can we get one? Are they available? When should I get tested?"
		"How long you are deemed contagious if you have COVID."

Reported frequency (percent).

Note that the following two questions were asked separately and independently of one another: 1) 'What is your current, single most trusted source for information about health issues like COVID-19 (Please pick one).' and 2) 'What other information sources do you use for information about health issues like COVID-19? (Select all that apply).'; Therefore, it was possible for respondents to select their current, single most trusted source for information as one of their other information sources as well.

^a Percentages for questions that allowed for multiple response selections reflect the entire analytical sample in the denominator. These responses were not mutually exclusive, and simply summarize the number of respondents indicating that particular response option (regardless of other additional selections indicated). Due to the nature of the question, missing responses cannot be separated from respondents who simply did not check any response option because none of the available responses applied or because they did not use any other information sources other than their current, single most trusted source. For this reason, the total number of respondents that did not make any indicated selection from the available options is reported, however these instances were not treated as missing responses to the question.