## **Supplemental Online Content**

Karpman M, Zuckerman S, Morriss S. Health care access and affordability among US adults aged 18 to 64 years with self-reported post–COVID-19 condition. *JAMA Netw Open*. 2023;6(4):e237455. doi:10.1001/jamanetworkopen.2023.7455

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Demographic and Geographic Characteristics of Health Reform Monitoring Survey Respondents and Nonrespondents

Characteristic	Respondents (%) <sup>a</sup> (N=9484)	Nonrespondents (%) <sup>a</sup> (N=9678) <sup>b</sup>	P value <sup>c</sup>
Cour			
Sex	40.0	56.0	. 001
Female	49.8	56.9	<.001
Male	50.2	43.1	<.001
Age, y			
18-49	57.9	71.2	<.001
50-64	42.1	28.8	<.001
Race and ethnicity			
Asian	3.8	3.1	0.01
Black	12.0	15.5	<.001
Hispanic	18.7	27.4	<.001
White	60.6	49.2	<.001
Other <sup>d</sup>	5.0	4.8	0.60
Educational attainment			
High school degree or less	31.4	35.3	<.001
Some college	30.1	35.5	<.001
Bachelor's degree or more	38.5	29.1	<.001
Residence in a rural area <sup>e</sup>	14.1	14.2	0.78

<sup>&</sup>lt;sup>a</sup> Sample sizes and percentage estimates are unweighted. Percentage estimates are rounded.

<sup>&</sup>lt;sup>b</sup> Nonrespondents include 9563 individuals who did not take the survey, 105 individuals who were excluded because of high levels of item nonresponse, and 10 individuals who were excluded from analysis because they did not answer questions on diagnosed COVID-19 or post-COVID-19 condition.

<sup>&</sup>lt;sup>d</sup> Other race and ethnicity includes adults who did not identify as Hispanic and who identified as American Indian or Alaska Native, Native Hawaiian or other Pacific Islander, more than one race, or some other race.

<sup>&</sup>lt;sup>e</sup> Adults who lived in a rural area include those who did not live in a metropolitan statistical area.

eTable 2. Logistic Regression Models Estimating Association of Post—COVID-19 Condition With Unmet Needs for Health Care in Past 12 Months Because of Costs

	(1)			(2)			(3)		
	coefficient	standard		coefficient	standard		coefficient	standard	
	(log odds)	error		(log odds)	error		(log odds)	error	
Reported current Long COVID (ref.)									
Ever diagnosed with COVID-19 but without Long COVID	-0.545	0.084	*	-0.544	0.085	*	-0.564	0.085	*
Never diagnosed with COVID-19	-0.602	0.075	*	-0.608	0.079	*	-0.620	0.083	*
Female sex	0.340	0.054	*	0.282	0.053	*	0.275	0.057	*
Male (ref.)									
Age 18-34	0.361	0.094	*	0.304	0.094	*	0.293	0.094	*
Age 35-49	0.260	0.068	*	0.278	0.067	*	0.288	0.067	*
Age 50-64 (ref.)									
Asian	-0.705	0.305	*	-0.696	0.290	*	-0.582	0.250	*
Black	0.027	0.087		-0.070	0.083		-0.107	0.082	
Hispanic	0.191	0.097		0.073	0.103		0.122	0.112	
White (ref.)									
Other race or ethnicity <sup>a</sup>	0.233	0.142		0.139	0.138		0.169	0.147	
High school degree or less	0.261	0.088	*	-0.019	0.093		-0.024	0.089	
Some college	0.348	0.091	*	0.136	0.091		0.128	0.094	
Bachelor's degree or more (ref.)									
Citizen	0.051	0.146		0.096	0.139		0.065	0.159	
Not a citizen (ref.)									
Married	-0.207	0.056	*	-0.069	0.067		-0.062	0.063	
Not married (ref.)									
Lives with dependent children under 19	0.256	0.061	*	0.118	0.061		0.087	0.060	
Does not live with dependent children under 19 (ref.)									
Ever diagnosed with hypertension	0.209	0.092	*	0.184	0.089	*	0.167	0.089	
Ever diagnosed with hyperlipidemia	0.179	0.114		0.179	0.114		0.193	0.117	
Ever diagnosed with coronary heart disease, angina, heart attack,	0.432	0.160	*	0.401	0.158	*	0.388	0.155	*
or other heart condition	0.432	0.160		0.401	0.158		0.388	0.155	
Ever diagnosed with stroke	0.142	0.195		0.135	0.192		0.129	0.187	
Ever diagnosed with cancer	0.121	0.163		0.154	0.166		0.170	0.174	
Ever diagnosed with diabetes	0.245	0.080	*	0.207	0.077	*	0.210	0.075	*
Ever diagnosed with asthma	0.316	0.086	*	0.318	0.084	*	0.341	0.081	*
Ever diagnosed with COPD, emphysema, or chronic bronchitis	0.270	0.181		0.236	0.172		0.185	0.168	

Ever diagnosed with arthritis, gout, lupus, or fibromyalgia	0.469	0.088	*	0.432	0.088	*	0.421	0.090	*
Diagnosed with multiple physical health conditions	0.083	0.153		0.075	0.150		0.053	0.147	
Not diagnosed with physical health conditions (ref.)									
Insured all months of the year	-0.958	0.093	*	-1.361	0.144	*	-1.294	0.153	*
Insured some months but not every month	0.135	0.117		-0.204	0.136		-0.146	0.142	
Uninsured all months of the year (ref.)									
Lives in urban area (ref.)									
Lives in rural area <sup>b</sup>	0.069	0.106		-0.006	0.114		-0.040	0.123	
Employer-sponsored health insurance at time of survey (ref.)									
Public health insurance at time of survey				-0.333	0.128	*	-0.318	0.128	*
Private nongroup or unspecified type of health insurance at time				0.009	0.103		-0.009	0.096	
of survey						*			*
Uninsured at time of survey				-0.672	0.165	T	-0.675	0.164	Τ.
Family income less than or equal to 138% of federal poverty level (FPL)				1.100	0.112	*	1.100	0.111	*
Family income greater than 138% to 249% FPL				0.993	0.104	*	0.992	0.103	*
Family income greater than 250% to 399% FPL				0.800	0.099	*	0.781	0.100	*
Family income greater than or equal to 400% FPL (ref.)				0.000	0.033		0.701	0.100	
Lives in Northeast region (ref.)									
Lives in Midwest region							0.138	0.075	
Lives in South region							0.209	0.095	*
Lives in West region							-0.176	0.108	
Lowest quartile of population-to-primary care physician ratio (ref.)									
Second quartile of population-to-primary care physician ratio							0.145	0.121	
Third quartile of population-to-primary care physician ratio							0.082	0.084	
Highest quartile of population-to-primary care physician ratio							0.078	0.121	
Constant	-1.181	0.219	*	-1.095	0.250	*	-1.254	0.254	*
Observations	9,484			9,484			9,422		

<sup>\*</sup> P<0.05

<sup>&</sup>lt;sup>a</sup> Other race and ethnicity includes adults who do not identify as Hispanic and who identify as American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, more than one race, or some other race.

<sup>&</sup>lt;sup>b</sup> Adults who live in a rural area include those who do not live in a metropolitan statistical area.

<sup>&</sup>lt;sup>c</sup> Population-to-primary care physician ratio is based on data from the County Health Rankings<sup>1</sup> and originally derived from 2019 American Medical Association Physician Masterfile data included in the 2020-2021 Area Health Resources File. Estimates exclude 62 observations with missing data.

eTable 3. Estimated Probabilities of Health Care Access Outcomes

	(1) Mair	(1) Main model		(2) With added controls for family income and health insurance coverage type		added or Census oopulation- ary care in ratio
	predicted probability	standard error	predicted probability	standard error	predicted probability	standard error
Has a usual place to get health care						
Adults with current Long COVID	0.828	0.016	0.828	0.016	0.825	0.017
Adults ever diagnosed with COVID-19 but without Long COVID	0.835	0.011	0.835	0.011	0.835	0.011
Adults never diagnosed with COVID-19	0.803	0.010	0.803	0.010	0.803	0.010
Did not get needed care in past 12 months for the following reasons: Costs						
Adults with current Long COVID	0.270	0.019	0.268	0.020	0.268	0.021
Adults ever diagnosed with COVID-19 but without Long COVID	0.183	0.012	0.184	0.012	0.182	0.013
Adults never diagnosed with COVID-19	0.175	0.010	0.175	0.010	0.174	0.010
Difficulty finding a provider accepting new patients						
Adults with current Long COVID	0.164	0.010	0.164	0.010	0.164	0.010
Adults ever diagnosed with COVID-19 but without Long COVID	0.101	0.007	0.103	0.007	0.103	0.007
Adults never diagnosed with COVID-19	0.107	0.006	0.106	0.005	0.106	0.005
Difficulty getting an appointment as soon as needed						
Adults with current Long COVID	0.220	0.014	0.220	0.014	0.222	0.014
Adults ever diagnosed with COVID-19 but without Long COVID	0.144	0.006	0.146	0.006	0.146	0.006
Adults never diagnosed with COVID-19	0.139	0.005	0.138	0.005	0.137	0.005
Difficulty getting to a doctor's office or clinic when it was open						
Adults with current Long COVID	0.110	0.011	0.110	0.011	0.110	0.011
Adults ever diagnosed with COVID-19 but without Long COVID	0.053	0.004	0.054	0.004	0.054	0.004
Adults never diagnosed with COVID-19	0.067	0.002	0.067	0.002	0.067	0.002

0.076	0.011	0.077	0.011	0.078	0.012
0.031	0.003	0.032	0.003	0.032	0.003
0.040	0.003	0.040	0.003	0.040	0.003
					0.010
					0.004
0.051	0.004	0.049	0.004	0.049	0.004
0.166	0.010	0.166	0.010	0.166	0.010
					0.006
					0.005
0.159	0.012	0.159	0.012	0.159	0.012
0.096	0.006	0.100	0.006	0.099	0.006
0.100	0.005	0.098	0.005	0.098	0.005
0.136	0.013	0.137	0.013	0.139	0.013
					0.005
					0.007
0.235	0.021	0.233	0.021	0.234	0.021
0.159	0.012	0.160	0.012	0.158	0.013
0.147	0.010	0.147	0.010	0.146	0.010
0.238	0.025	0.236	0.025	0.236	0.025
					0.023
					0.017
	0.031 0.040 0.061 0.035 0.051 0.166 0.108 0.103 0.159 0.096 0.100 0.136 0.076 0.086	0.031       0.003         0.040       0.003         0.061       0.009         0.035       0.004         0.051       0.004         0.166       0.010         0.108       0.006         0.103       0.005         0.159       0.012         0.096       0.006         0.100       0.005         0.136       0.013         0.076       0.005         0.086       0.006         0.159       0.012         0.147       0.010         0.235       0.021         0.147       0.010         0.238       0.025         0.157       0.016	0.031       0.003       0.032         0.040       0.003       0.040         0.061       0.009       0.063         0.035       0.004       0.038         0.051       0.004       0.049         0.166       0.010       0.166         0.108       0.006       0.110         0.103       0.005       0.102         0.159       0.006       0.100         0.100       0.005       0.098         0.136       0.013       0.137         0.076       0.005       0.077         0.086       0.006       0.085         0.235       0.021       0.233         0.159       0.012       0.160         0.147       0.010       0.147         0.238       0.025       0.236         0.157       0.016       0.159	0.031       0.003       0.032       0.003         0.040       0.003       0.040       0.003         0.061       0.009       0.063       0.009         0.035       0.004       0.038       0.004         0.051       0.004       0.049       0.004         0.166       0.010       0.166       0.010         0.108       0.006       0.110       0.006         0.103       0.005       0.102       0.005         0.159       0.012       0.159       0.012         0.096       0.006       0.100       0.006         0.100       0.005       0.098       0.005         0.136       0.013       0.137       0.013         0.076       0.005       0.077       0.005         0.086       0.006       0.085       0.006         0.159       0.012       0.160       0.012         0.147       0.010       0.147       0.010         0.238       0.025       0.236       0.025         0.157       0.016       0.159       0.016	0.031         0.003         0.032         0.003         0.040           0.040         0.003         0.040         0.003         0.040           0.061         0.009         0.063         0.009         0.064           0.035         0.004         0.038         0.004         0.038           0.051         0.004         0.049         0.004         0.049           0.166         0.010         0.166         0.010         0.166           0.108         0.006         0.110         0.006         0.109           0.103         0.005         0.102         0.005         0.102           0.159         0.012         0.159         0.012         0.159           0.096         0.006         0.100         0.006         0.099           0.100         0.005         0.098         0.005         0.098           0.136         0.013         0.137         0.013         0.139           0.076         0.005         0.077         0.005         0.075           0.086         0.006         0.085         0.006         0.085           0.159         0.012         0.158           0.147         0.010         0.146

**eTable 4.** Estimated Probabilities of Health Care Access Outcomes Using Bootstrapped Standard Errors

	(1) Main model			
	predicted	standard	bootstrapped	
	probability	error	standard erro	
Has a usual place to get health care				
Adults with current Long COVID	0.828	0.016	0.017	
Adults ever diagnosed with COVID-19 but without Long COVID	0.835	0.011	0.011	
Adults never diagnosed with COVID-19	0.803	0.010	0.009	
Did not get needed care in past 12 months for the following reasons:				
Costs				
Adults with current Long COVID	0.270	0.019	0.017	
Adults ever diagnosed with COVID-19 but without Long COVID	0.183	0.012	0.012	
Adults never diagnosed with COVID-19	0.175	0.010	0.010	
Difficulty finding a provider accepting new patients				
Adults with current Long COVID	0.164	0.010	0.009	
Adults ever diagnosed with COVID-19 but without Long COVID	0.101	0.007	0.007	
Adults never diagnosed with COVID-19	0.107	0.006	0.005	
Difficulty getting an appointment as soon as needed				
Adults with current Long COVID	0.220	0.014	0.014	
Adults ever diagnosed with COVID-19 but without Long COVID	0.144	0.006	0.007	
Adults never diagnosed with COVID-19	0.139	0.005	0.005	
Difficulty getting to a doctor's office or clinic when it was open				
Adults with current Long COVID	0.110	0.011	0.011	
Adults ever diagnosed with COVID-19 but without Long COVID	0.053	0.004	0.005	
Adults never diagnosed with COVID-19	0.067	0.002	0.003	
Difficulty getting a telehealth visit				
Adults with current Long COVID	0.076	0.011	0.010	
Adults ever diagnosed with COVID-19 but without Long COVID	0.031	0.003	0.003	

Difficulty finding transportation	Adults never diagnosed with COVID-19	0.040	0.003	0.003
Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 0.003  Difficulty getting health plan authorization for care or prescription drugs Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Difficulty finding a doctor accepting coverage type Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Difficulty finding a doctor accepting coverage type Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Currently has medical bills that are past due Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238  O.025  O.022  Adults ever diagnosed with COVID-19 but without Long COVID  O.157  O.016	Difficulty finding transportation			
Adults never diagnosed with COVID-19    Difficulty getting health plan authorization for care or prescription drugs	Adults with current Long COVID	0.061	0.009	0.009
Difficulty getting health plan authorization for care or prescription drugs           Adults with current Long COVID         0.166         0.010         0.011           Adults with current Long COVID-19 but without Long COVID         0.108         0.006         0.006           Adults never diagnosed with COVID-19         0.103         0.005         0.004           Difficulty finding a doctor accepting coverage type           Adults with current Long COVID         0.159         0.012         0.013           Adults ever diagnosed with COVID-19 but without Long COVID         0.096         0.006         0.006           Adults never diagnosed with COVID-19         0.130         0.013         0.013           Adults with current Long COVID         0.136         0.013         0.013           Adults ever diagnosed with COVID-19 but without Long COVID         0.076         0.005         0.005           Adults never diagnosed with COVID-19         0.086         0.006         0.006           Additional health care affordability problems:         Problems paying family medical bills in past 12 months           Adults with current Long COVID         0.159         0.012         0.021           Adults with current Long COVID-19 but without Long COVID         0.159         0.012         0.012           Adults eve	Adults ever diagnosed with COVID-19 but without Long COVID	0.035	0.004	0.004
Adults with current Long COVID       0.166       0.010       0.011         Adults ever diagnosed with COVID-19 but without Long COVID       0.108       0.006       0.006         Adults never diagnosed with COVID-19       0.103       0.005       0.004         Difficulty finding a doctor accepting coverage type         Adults with current Long COVID       0.159       0.012       0.013         Adults ever diagnosed with COVID-19 but without Long COVID       0.096       0.006       0.006         Adults never diagnosed with COVID-19       0.100       0.005       0.005         Difficulty getting information on network, covered services, or cost of care         Adults with current Long COVID       0.136       0.013       0.013         Adults ever diagnosed with COVID-19 but without Long COVID       0.076       0.005       0.005         Adults never diagnosed with COVID-19       0.086       0.006       0.006         Adults never diagnosed with COVID-19 but without Long COVID       0.235       0.021       0.021         Adults with current Long COVID       0.159       0.012       0.012         Adults never diagnosed with COVID-19 but without Long COVID       0.147       0.010       0.009         Currently has medical bills that are past due         Adults ever diagno	Adults never diagnosed with COVID-19	0.051	0.004	0.003
Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Difficulty finding a doctor accepting coverage type Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID	Difficulty getting health plan authorization for care or prescription drugs			
Adults never diagnosed with COVID-19  Difficulty finding a doctor accepting coverage type  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Adults never diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults with COVID-19 but without Long COVID  Adults with current Long COVID  Adults with current Long COVID  Adults with COVID-19 but without Long COVID  Adults with current Long COVID  Adults with COVID-19 but without Long COVID  Adults with COVID-19 but without Long COVID  Adults with COVID-19 but without Long COVID	Adults with current Long COVID	0.166	0.010	0.011
Difficulty finding a doctor accepting coverage type Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 Adults never diagnosed with COVID-19  Adults never diagnosed with COVID-19 Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 Difficulty getting information on network, covered services, or cost of care Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Currently has medical bills that are past due Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID O.238 O.238 O.025 O.022 Adults ever diagnosed with COVID-19 but without Long COVID	Adults ever diagnosed with COVID-19 but without Long COVID	0.108	0.006	0.006
Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care  Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Adults never diagnosed with COVID-19  Adults with current Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID	Adults never diagnosed with COVID-19	0.103	0.005	0.004
Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Difficulty getting information on network, covered services, or cost of care  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Adults ever diagnosed with COVID-19  Adults with current Long COVID  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID	Difficulty finding a doctor accepting coverage type			
Adults never diagnosed with COVID-19  Difficulty getting information on network, covered services, or cost of care  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Additional health care affordability problems:  Problems paying family medical bills in past 12 months  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238  O.025  O.022  Adults ever diagnosed with COVID-19 but without Long COVID	Adults with current Long COVID	0.159	0.012	0.013
Difficulty getting information on network, covered services, or cost of care  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID	Adults ever diagnosed with COVID-19 but without Long COVID	0.096	0.006	0.006
Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Additional health care affordability problems:  Problems paying family medical bills in past 12 months  Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Currently has medical bills that are past due Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID	Adults never diagnosed with COVID-19	0.100	0.005	0.005
Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Additional health care affordability problems:  Problems paying family medical bills in past 12 months  Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238 O.025 O.022 Adults ever diagnosed with COVID-19 but without Long COVID	Difficulty getting information on network, covered services, or cost of care			
Additional health care affordability problems:  Problems paying family medical bills in past 12 months  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults ever diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238  O.025  O.022  Adults ever diagnosed with COVID-19 but without Long COVID	Adults with current Long COVID	0.136	0.013	0.013
Additional health care affordability problems:  Problems paying family medical bills in past 12 months  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238  O.220  Adults ever diagnosed with COVID-19 but without Long COVID  O.157  O.016	Adults ever diagnosed with COVID-19 but without Long COVID	0.076	0.005	0.005
Problems paying family medical bills in past 12 monthsAdults with current Long COVID0.2350.0210.021Adults ever diagnosed with COVID-19 but without Long COVID0.1590.0120.012Adults never diagnosed with COVID-190.1470.0100.009Currently has medical bills that are past dueAdults with current Long COVID0.2380.0250.022Adults ever diagnosed with COVID-19 but without Long COVID0.1570.0160.016	Adults never diagnosed with COVID-19	0.086	0.006	0.006
Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  Adults never diagnosed with COVID-19  Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.235  O.021  O.012  O.012  O.017  O.010  O.009	Additional health care affordability problems:			
Adults ever diagnosed with COVID-19 but without Long COVID Adults never diagnosed with COVID-19  Currently has medical bills that are past due Adults with current Long COVID Adults ever diagnosed with COVID-19 but without Long COVID  O.159 O.012 O.010 O.009	Problems paying family medical bills in past 12 months			
Adults never diagnosed with COVID-19 0.009  **Currently has medical bills that are past due**  Adults with current Long COVID 0.238 0.025 0.022  Adults ever diagnosed with COVID-19 but without Long COVID 0.157 0.016 0.016	Adults with current Long COVID	0.235	0.021	0.021
Currently has medical bills that are past due  Adults with current Long COVID  Adults ever diagnosed with COVID-19 but without Long COVID  O.238  O.025  O.016  O.016	Adults ever diagnosed with COVID-19 but without Long COVID	0.159	0.012	0.012
Adults with current Long COVID 0.238 0.025 0.022 Adults ever diagnosed with COVID-19 but without Long COVID 0.157 0.016 0.016	Adults never diagnosed with COVID-19	0.147	0.010	0.009
Adults ever diagnosed with COVID-19 but without Long COVID 0.157 0.016 0.016	Currently has medical bills that are past due			
	Adults with current Long COVID	0.238	0.025	0.022
Adults never diagnosed with COVID-19 0.140 0.012 0.011	Adults ever diagnosed with COVID-19 but without Long COVID	0.157	0.016	0.016
	Adults never diagnosed with COVID-19	0.140	0.012	0.011

Bootstrapped standard errors are based on the standard deviation of estimated predicted probabilities across 100 replications using bootstrap resampling weights.

## eReferences

<sup>1</sup> County Health Rankings & Roadmaps 2022. University of Wisconsin Population Health Institute. Accessed February 22,

2023. https://www.countyhealthrankings.org.