

Appendix
Who Is (and Isn't) Receiving Telemedicine Care During the COVID-19 Pandemic
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Appendix Table 1. List of Procedure Codes Used to Categorize an Office Visit

Procedure code	High level care category	Care category
0188T	Office visits and consults	Facility visits
0189T	Office visits and consults	Facility visits
99053	Office visits and consults	Facility visits
99217	Office visits and consults	Facility visits
99218	Office visits and consults	Facility visits
99219	Office visits and consults	Facility visits
99220	Office visits and consults	Facility visits
99221	Office visits and consults	Facility visits
99222	Office visits and consults	Facility visits
99223	Office visits and consults	Facility visits
99224	Office visits and consults	Facility visits
99225	Office visits and consults	Facility visits
99226	Office visits and consults	Facility visits
99231	Office visits and consults	Facility visits
99232	Office visits and consults	Facility visits
99233	Office visits and consults	Facility visits
99234	Office visits and consults	Facility visits
99235	Office visits and consults	Facility visits
99236	Office visits and consults	Facility visits
99238	Office visits and consults	Facility visits
99239	Office visits and consults	Facility visits
99291	Office visits and consults	Facility visits
99292	Office visits and consults	Facility visits
99293	Office visits and consults	Facility visits
99294	Office visits and consults	Facility visits
99295	Office visits and consults	Facility visits
99296	Office visits and consults	Facility visits
99297	Office visits and consults	Facility visits
99298	Office visits and consults	Facility visits
99299	Office visits and consults	Facility visits
99300	Office visits and consults	Facility visits
99301	Office visits and consults	Facility visits
99302	Office visits and consults	Facility visits
99303	Office visits and consults	Facility visits
99304	Office visits and consults	Facility visits
99305	Office visits and consults	Facility visits
99306	Office visits and consults	Facility visits
99307	Office visits and consults	Facility visits
99308	Office visits and consults	Facility visits
99309	Office visits and consults	Facility visits
99310	Office visits and consults	Facility visits
99311	Office visits and consults	Facility visits
99312	Office visits and consults	Facility visits
99313	Office visits and consults	Facility visits

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99315	Office visits and consults	Facility visits
99316	Office visits and consults	Facility visits
99318	Office visits and consults	Facility visits
99321	Office visits and consults	Facility visits
99322	Office visits and consults	Facility visits
99323	Office visits and consults	Facility visits
99324	Office visits and consults	Facility visits
99325	Office visits and consults	Facility visits
99326	Office visits and consults	Facility visits
99327	Office visits and consults	Facility visits
99328	Office visits and consults	Facility visits
99331	Office visits and consults	Facility visits
99332	Office visits and consults	Facility visits
99333	Office visits and consults	Facility visits
99334	Office visits and consults	Facility visits
99335	Office visits and consults	Facility visits
99336	Office visits and consults	Facility visits
99337	Office visits and consults	Facility visits
99339	Office visits and consults	Facility visits
99340	Office visits and consults	Facility visits
99356	Office visits and consults	Facility visits
99357	Office visits and consults	Facility visits
99360	Office visits and consults	Facility visits
99431	Office visits and consults	Facility visits
99433	Office visits and consults	Facility visits
99435	Office visits and consults	Facility visits
99436	Office visits and consults	Facility visits
99440	Office visits and consults	Facility visits
99460	Office visits and consults	Facility visits
99462	Office visits and consults	Facility visits
99463	Office visits and consults	Facility visits
99464	Office visits and consults	Facility visits
99465	Office visits and consults	Facility visits
99468	Office visits and consults	Facility visits
99469	Office visits and consults	Facility visits
99471	Office visits and consults	Facility visits
99472	Office visits and consults	Facility visits
99475	Office visits and consults	Facility visits
99476	Office visits and consults	Facility visits
99477	Office visits and consults	Facility visits
99478	Office visits and consults	Facility visits
99479	Office visits and consults	Facility visits
99480	Office visits and consults	Facility visits
99481	Office visits and consults	Facility visits
99482	Office visits and consults	Facility visits
G0378	Office visits and consults	Facility visits

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G0379	Office visits and consults	Facility visits
G9679	Office visits and consults	Facility visits
G9680	Office visits and consults	Facility visits
G9681	Office visits and consults	Facility visits
G9682	Office visits and consults	Facility visits
G9683	Office visits and consults	Facility visits
G9684	Office visits and consults	Facility visits
G9685	Office visits and consults	Facility visits
G9686	Office visits and consults	Facility visits
S0310	Office visits and consults	Facility visits
99251	Office visits and consults	Inpatient consults
99252	Office visits and consults	Inpatient consults
99253	Office visits and consults	Inpatient consults
99254	Office visits and consults	Inpatient consults
99255	Office visits and consults	Inpatient consults
99261	Office visits and consults	Inpatient consults
99262	Office visits and consults	Inpatient consults
99263	Office visits and consults	Inpatient consults
G0406	Office visits and consults	Inpatient consults
G0407	Office visits and consults	Inpatient consults
G0408	Office visits and consults	Inpatient consults
G0459	Office visits and consults	Inpatient consults
99024	Office visits and consults	Office visit
99025	Office visits and consults	Office visit
99050	Office visits and consults	Office visit
99051	Office visits and consults	Office visit
99201	Office visits and consults	Office visit
99202	Office visits and consults	Office visit
99203	Office visits and consults	Office visit
99204	Office visits and consults	Office visit
99205	Office visits and consults	Office visit
99211	Office visits and consults	Office visit
99212	Office visits and consults	Office visit
99213	Office visits and consults	Office visit
99214	Office visits and consults	Office visit
99215	Office visits and consults	Office visit
99354	Office visits and consults	Office visit
99355	Office visits and consults	Office visit
99401	Office visits and consults	Office visit
99402	Office visits and consults	Office visit
99403	Office visits and consults	Office visit
99404	Office visits and consults	Office visit
99415	Office visits and consults	Office visit
99416	Office visits and consults	Office visit
99450	Office visits and consults	Office visit
99455	Office visits and consults	Office visit

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99456	Office visits and consults	Office visit
G0245	Office visits and consults	Office visit
G0246	Office visits and consults	Office visit
G0247	Office visits and consults	Office visit
G0463	Office visits and consults	Office visit
G0466	Office visits and consults	Office visit
G0467	Office visits and consults	Office visit
G0468	Office visits and consults	Office visit
G0469	Office visits and consults	Office visit
G0470	Office visits and consults	Office visit
G0511	Office visits and consults	Office visit
G0512	Office visits and consults	Office visit
G2063	Office visits and consults	Office visit
S0206	Office visits and consults	Office visit
S0260	Office visits and consults	Office visit
S0302	Office visits and consults	Office visit
S0390	Office visits and consults	Office visit
S0622	Office visits and consults	Office visit
T1015	Office visits and consults	Office visit
T1025	Office visits and consults	Office visit
T1026	Office visits and consults	Office visit
T1040	Office visits and consults	Office visit
T1041	Office visits and consults	Office visit
99271	Office visits and consults	Other consults, location unspecified
99272	Office visits and consults	Other consults, location unspecified
99273	Office visits and consults	Other consults, location unspecified
99274	Office visits and consults	Other consults, location unspecified
99275	Office visits and consults	Other consults, location unspecified
G0425	Office visits and consults	Other consults, location unspecified
G0426	Office visits and consults	Other consults, location unspecified
G0427	Office visits and consults	Other consults, location unspecified
G0508	Office visits and consults	Other consults, location unspecified
G0509	Office visits and consults	Other consults, location unspecified
S0265	Office visits and consults	Other consults, location unspecified
99406	Office visits and consults	Other preventive medical services
99407	Office visits and consults	Other preventive medical services
99408	Office visits and consults	Other preventive medical services
99409	Office visits and consults	Other preventive medical services
99411	Office visits and consults	Other preventive medical services
99412	Office visits and consults	Other preventive medical services
99420	Office visits and consults	Other preventive medical services
99429	Office visits and consults	Other preventive medical services
C9801	Office visits and consults	Other preventive medical services
C9802	Office visits and consults	Other preventive medical services
G0375	Office visits and consults	Other preventive medical services
G0376	Office visits and consults	Other preventive medical services

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G0396	Office visits and consults	Other preventive medical services
G0397	Office visits and consults	Other preventive medical services
G0436	Office visits and consults	Other preventive medical services
G0437	Office visits and consults	Other preventive medical services
G0442	Office visits and consults	Other preventive medical services
G0443	Office visits and consults	Other preventive medical services
G0444	Office visits and consults	Other preventive medical services
G0445	Office visits and consults	Other preventive medical services
G0446	Office visits and consults	Other preventive medical services
G0447	Office visits and consults	Other preventive medical services
G0450	Office visits and consults	Other preventive medical services
G0473	Office visits and consults	Other preventive medical services
G2011	Office visits and consults	Other preventive medical services
G9873	Office visits and consults	Other preventive medical services
G9874	Office visits and consults	Other preventive medical services
G9875	Office visits and consults	Other preventive medical services
G9876	Office visits and consults	Other preventive medical services
G9877	Office visits and consults	Other preventive medical services
G9878	Office visits and consults	Other preventive medical services
G9879	Office visits and consults	Other preventive medical services
G9880	Office visits and consults	Other preventive medical services
G9881	Office visits and consults	Other preventive medical services
G9882	Office visits and consults	Other preventive medical services
G9883	Office visits and consults	Other preventive medical services
G9884	Office visits and consults	Other preventive medical services
G9885	Office visits and consults	Other preventive medical services
G9890	Office visits and consults	Other preventive medical services
G9891	Office visits and consults	Other preventive medical services
H0021	Office visits and consults	Other preventive medical services
H0022	Office visits and consults	Other preventive medical services
H0023	Office visits and consults	Other preventive medical services
H0024	Office visits and consults	Other preventive medical services
H0025	Office visits and consults	Other preventive medical services
H0026	Office visits and consults	Other preventive medical services
H0027	Office visits and consults	Other preventive medical services
H0028	Office visits and consults	Other preventive medical services
H0029	Office visits and consults	Other preventive medical services
H0030	Office visits and consults	Other preventive medical services
S5190	Office visits and consults	Other preventive medical services
99241	Office visits and consults	Outpatient consults
99242	Office visits and consults	Outpatient consults
99243	Office visits and consults	Outpatient consults
99244	Office visits and consults	Outpatient consults
99245	Office visits and consults	Outpatient consults
S0250	Office visits and consults	Outpatient consults
S0285	Office visits and consults	Outpatient consults

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99381	Office visits and consults	Preventive care visits
99382	Office visits and consults	Preventive care visits
99383	Office visits and consults	Preventive care visits
99384	Office visits and consults	Preventive care visits
99385	Office visits and consults	Preventive care visits
99386	Office visits and consults	Preventive care visits
99387	Office visits and consults	Preventive care visits
99391	Office visits and consults	Preventive care visits
99392	Office visits and consults	Preventive care visits
99393	Office visits and consults	Preventive care visits
99394	Office visits and consults	Preventive care visits
99395	Office visits and consults	Preventive care visits
99396	Office visits and consults	Preventive care visits
99397	Office visits and consults	Preventive care visits
G0344	Office visits and consults	Preventive care visits
G0402	Office visits and consults	Preventive care visits
G0438	Office visits and consults	Preventive care visits
G0439	Office visits and consults	Preventive care visits
G0513	Office visits and consults	Preventive care visits
G0514	Office visits and consults	Preventive care visits
S0610	Office visits and consults	Preventive care visits
S0612	Office visits and consults	Preventive care visits
S0613	Office visits and consults	Preventive care visits

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Appendix Table 2. Rates of Telemedicine and Office-based Healthcare Utilization

Demographic characteristic	Total visits			Telemedicine			In-person care		
	Rate pre-COVID	Rate post-COVID	Change in rate	Rate ^a pre-COVID	Rate ^b post-COVID	Change in rate	Rate ^c pre-COVID	Rate ^d post-COVID	Change in rate
Sex									
Female	711.3 (1,156.6)	573.0 (997.9)	-138.3	4.1 (81.8)	118.2 (400.4)	114.1	707.2 (1,153.3)	454.8 (909.2)	-252.4
Male	568.7 (1,064.4)	436.0 (885.7)	-132.7	2.5 (66.3)	76.9 (316.4)	74.4	566.2 (1,061.8)	359.1 (823.4)	-207.114
Age group									
Young children (0–12 years)	754.3 (1,409.1)	490.1 (1,126.2)	-264.2	2.7 (80.6)	63.2 (338.6)	60.6	751.7 (1,406.4)	426.9 (1,070.5)	-324.8
Teenagers (13–18 years)	489.2 (964.0)	377.7 (826.3)	-111.5	3.0 (71.5)	103.2 (415.9)	100.2	486.1 (960.7)	274.5 (709.0)	-211.7
Younger adults (19–45 years)	456.2 (964.0)	421.6 (742.1)	-34.5	4.4 (78.9)	101.1 (334.2)	96.6	451.7 (812.6)	320.5 (653.2)	-131.1
Older adults (≥46 years)	796.1 (1,111.2)	659.8 (985.6)	-136.3	2.8 (64.9)	121.4 (376.7)	118.6	793.3 (1,108.7)	538.4 (907.5)	-254.9
% Below poverty line^e									
1st Quartile (lowest)	620.8 (1,067.1)	489.6 (934.4)	-131.2	3.6 (71.2)	116.1 (380.9)	112.5	617.2 (1,063.8)	373.6 (848.2)	-243.6
2nd Quartile	622.0 (1,088.2)	489.4 (918.3)	-132.6	3.4 (71.1)	99.6 (362.0)	96.1	618.6 (1,085.6)	389.8 (837.0)	-228.7
3rd Quartile	646.5 (1,077.5)	511.5 (904.5)	-135.0	3.4 (78.4)	90.9 (330.6)	87.5	643.1 (1,074.3)	420.5 (839.8)	-222.6
4th Quartile (highest)	671.9 (1,223.7)	527.8 (1,029.0)	-144.2	2.7 (76.6)	83.5 (372.5)	80.7	669.2 (1,220.8)	444.3 (949.7)	-224.9
Rurality^f									
Metropolitan	661.2 (574.3)	522.8 (462.1)	-138.4	3.4 (28.9)	125.9 (182.7)	122.5	657.8 (573.4)	396.9 (431.9)	-260.9
Not metropolitan	630.1 (1,284.8)	496.1 (1,092.6)	-134.0	3.2 (87.6)	85.0 (415.7)	81.7	626.9 (1,281.2)	411.2 (1,002.0)	-215.7
% White									
1st Quartile (lowest)	653.1 (1,077.7)	519.2 (940.9)	-133.9	3.2 (64.0)	101.4 (354.9)	98.2	650.0 (1,075.1)	417.8 (862.5)	-232.1
2nd Quartile	657.3 (993.7)	520.8 (843.2)	-136.5	3.5 (80.7)	104.1 (324.5)	100.6	653.8 (990.3)	416.7 (775.5)	-237.1
3rd Quartile	620.7 (1,110.5)	488.2 (939.5)	-132.5	3.5 (76.3)	97.9 (371.3)	94.3	617.1 (1,097.3)	390.3 (857.7)	-226.9

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4th Quartile (highest)	627.6 (1,282.2)	488.5 (1,060.8)	-139.1	2.9 (74.5)	85.6 (394.4)	82.7	624.7 (1,279.5)	402.9 (979.5)	-221.8
% Black									
1st Quartile (lowest)	580.1 (1,394.2)	460.3 (1,211.2)	-119.8	3.4 (100.4)	83.7 (479.9)	80.2	576.7 (1,389.7)	376.7 (1,102.2)	-200.0
2nd Quartile	613.7 (1,136.7)	478.3 (939.0)	-135.4	3.3 (68.2)	94.6 (354.1)	91.3	610.4 (1,134.1)	383.7 (863.1)	-226.7
3rd Quartile	655.3 (1,002.5)	514.8 (838.8)	-140.5	3.5 (74.6)	106.3 (313.8)	102.7	651.8 (999.7)	408.5 (776.4)	-243.3
4th Quartile (highest)	688.9 (955.2)	547.9 (814.5)	-141.0	3.0 (54.8)	101.6 (303.2)	98.6	685.9 (953.1)	446.3 (752.5)	-239.6
% Hispanic									
1st Quartile (lowest)	654.4 (1,263.9)	509.4 (1,038.4)	-144.9	2.9 (79.7)	87.7 (383.3)	84.8	651.5 (1,260.8)	421.7 (961.2)	-229.8
2nd Quartile	640.2 (1,127.7)	505.4 (957.5)	-134.8	3.0 (70.3)	92.5 (363.4)	89.5	637.2 (1,124.9)	412.9 (880.2)	-224.4
3rd Quartile	636.2 (982.2)	497.2 (836.3)	-139.0	3.4 (66.8)	101.5 (321.6)	98.1	632.7 (979.9)	395.6 (766.5)	-237.1
4th Quartile (highest)	627.9 (1,067.1)	505.6 (945.5)	-122.2	4.0 (81.3)	109.1 (376.8)	105.1	623.9 (1,063.8)	396.5 (859.3)	-227.4
COVID-19 prevalence^g									
1st Quartile (lowest)	590.1 (1,317.9)	466.8 (1,132.6)	-123.3	3.5 (96.8)	91.7 (453.6)	88.2	586.5 (1,314.2)	375.1 (1,031.9)	-211.5
2nd Quartile	620.5 (1,143.0)	490.0 (952.6)	-130.5	3.7 (87.5)	98.5 (377.6)	94.8	616.8 (1,138.5)	391.5 (868.8)	-225.3
3rd Quartile	657.5 (996.3)	515.9 (839.0)	-141.6	3.2 (55.0)	100.4 (298.5)	97.1	654.2 (994.6)	415.5 (779.7)	-238.7
4th Quartile (highest)	678.4 (1,017.7)	535.6 (873.1)	-142.8	2.8 (55.8)	98.2 (317.7)	95.4	675.6 (1,015.7)	437.4 (807.3)	-238.2
Unemployment rate^h									
1st Quartile (lowest)	608.0 (1,357.4)	483.0 (1,173.4)	-125.0	3.6 (100.1)	78.5 (415.1)	75.0	604.4 (1,352.9)	404.5 (1,086.6)	-199.9
2nd Quartile	635.2 (1,074.5)	506.4 (914.3)	-128.9	3.3 (73.7)	91.6 (344.8)	88.3	631.9 (1,071.2)	414.7 (842.4)	-217.2
3rd Quartile	664.2 (1,046.5)	519.9 (871.1)	-144.3	3.4 (65.5)	101.4 (347.0)	98.0	660.8 (1,044.3)	418.5 (797.4)	-242.2
4th Quartile (highest)	644.6 (994.1)	503.3 (836.9)	-141.3	3.0 (57.8)	114.7 (343.7)	111.7	641.6 (992.3)	388.6 (757.7)	-253.0
Without broadband rateⁱ									
1st Quartile (lowest)	655.6	517.1	-138.5	3.6	125.5	121.8	652.0	391.6	-260.3

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	(766.3)	(648.6)		(50.1)	(249.3)		(764.2)	(600.0)	
2nd Quartile	646.9	512.1	-134.8	3.4	96.9	93.4	643.4	415.2	-228.2
	(1,015.9)	(861.3)		(67.6)	(336.2)		(1,012.9)	(786.6)	
3rd Quartile	633.5	498.0	-135.5	2.9	83.1	80.2	630.6	414.9	-215.8
	(1,210.5)	(1,022.9)		(76.5)	(371.7)		(1,208.1)	(945.6)	
4th Quartile (highest)	617.3	485.4	-131.9	3.2	79.8	76.6	614.1	405.7	-208.5
	(1,448.0)	(1,229.6)		(102.0)	(479.3)		(1,443.6)	(1,123.9)	
% No English in household^j									
1st Quartile (lowest)	658.8	514.4	-144.5	2.5	80.6	78.1	656.3	433.8	-222.5
	(1,276.8)	(1,054.0)		(73.7)	(370.2)		(1,274.1)	(981.0)	
2nd Quartile	627.1	491.9	-135.2	3.1	92.4	89.3	624.0	400.0	-224.4
	(1,141.5)	(971.5)		(79.2)	(377.2)		(1,138.2)	(889.9)	
3rd Quartile	639.2	506.4	-132.9	3.6	102.3	98.7	635.6	404.1	-231.5
	(984.6)	(839.4)		(67.4)	(340.1)		(981.6)	(762.0)	
4th Quartile (highest)	632.8	504.0	-128.9	4.0	117.0	113.0	628.8	387.0	-241.8
	(1,022.8)	(902.6)		(77.7)	(356.1)		(1,019.7)	(822.7)	

^aNumber of persons receiving telemedicine care per 10,000 eligible beneficiaries on a weekly basis for all of 2019 and weeks 1 through 10 in 2020.

^bNumber of persons receiving telemedicine care per 10,000 eligible beneficiaries on a weekly basis from weeks 11 through 31.

^cNumber of persons receiving office-based care per 10,000 eligible beneficiaries on a weekly basis for all of 2019 and weeks 1 through 10 in 2020.

^dNumber of persons receiving office-based care per 10,000 eligible beneficiaries on a weekly basis from weeks 11 through 31.

^eShare of U.S. county (percent) living below the federal poverty line in the county where the patient resides

(<https://www.census.gov/topics/income-poverty/poverty/data/tables/acs.html>).

^fU.S. county metropolitan classification according to the county where the patient resides

(https://www.cdc.gov/nchs/data_access/urban_rural.htm).

^gIs the number of COVID-19 cases per 10,000 population in the county as of July 31, 2020 from USAFacts.

^hIs the county-level unemployment rate as reported by the Bureau of Labor Statistics for July.

ⁱIs the share of a county that does not have broadband internet as reported by the Federal Communications Commission using the Mapping Broadband Health in America.

^jIs the share of a county that does not only speak English only in their household as reported in the 5-year American Community Survey.

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Appendix Table 3. Full Regression Results of Telemedicine Utilization Before Versus After Start of COVID-19 Pandemic With Interactions by Patient Age, County Urbanicity and Percent of Population in Poverty Within the County

Variable	(1) Model interaction age and post dummy	(2) Model interaction urbanicity and post dummy	(3) Model interaction poverty and post dummy
Pre-post dummy variable (baseline is pre period ^a)	119.5*** (107.4, 131.5)	123.3*** (111.4, 135.2)	113.3*** (97.18, 129.4)
Age category (Older adults ≥46 years is baseline)			
Young children (0-12 years)	-0.884*** (-1.517, -0.251)	-15.93*** (-17.95, -13.91)	-15.96*** (-17.97, -13.95)
Teenagers (13-18 years)	-0.0940 (-0.798, 0.610)	-4.820** (-8.506, -1.134)	-4.826** (-8.512, -1.139)
Younger adults (19-45 years)	1.703*** (1.218, 2.188)	-4.000*** (-6.080, -1.920)	-3.982*** (-6.067, -1.898)
Female dummy	11.92*** (10.57, 13.27)	11.92*** (10.57, 13.28)	11.93*** (10.58, 13.28)
Rural dummy ^b	-3.474*** (-5.066, -1.882)	6.933*** (4.132, 9.735)	-3.519*** (-5.114, -1.924)
Percent White (baseline is 1st Quartile [lowest])			
2nd Quartile	1.726 (-0.620, 4.073)	1.715 (-0.638, 4.068)	1.740 (-0.625, 4.106)
3rd Quartile	3.332* (-0.338, 7.001)	3.289* (-0.388, 6.966)	3.310* (-0.362, 6.982)
4th Quartile (highest)	1.399 (-3.486, 6.285)	1.336 (-3.567, 6.239)	1.334 (-3.582, 6.250)
Percent Black (baseline is 1st Quartile [lowest])			
2nd Quartile	-1.448 (-3.733, 0.838)	-1.455 (-3.728, 0.818)	-1.459 (-3.729, 0.812)
3rd Quartile	-0.374 (-3.070, 2.323)	-0.361 (-3.056, 2.333)	-0.356 (-3.048, 2.335)
4th Quartile (highest)	1.468 (-2.080, 5.015)	1.434 (-2.110, 4.978)	1.418 (-2.145, 4.982)
Percent Hispanic (baseline is 1st Quartile [lowest])			
2nd Quartile	0.715 (-1.595, 3.025)	0.650 (-1.656, 2.957)	0.666 (-1.646, 2.977)
3rd Quartile	0.236 (-2.271, 2.744)	0.204 (-2.307, 2.715)	0.240 (-2.276, 2.757)
4th Quartile (highest)	2.210 (-1.542, 5.961)	2.215 (-1.537, 5.967)	2.212 (-1.540, 5.963)

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Percent below poverty line (baseline is 1st Quartile [lowest]) ^c			
2nd Quartile	-2.868** (-5.137, -0.598)	-2.859** (-5.121, -0.598)	1.319 (-1.408, 4.046)
3rd Quartile	-4.757*** (-7.542, -1.972)	-4.746*** (-7.524, -1.968)	1.678 (-1.930, 5.285)
4th Quartile (highest)	-5.915*** (-9.298, -2.531)	-5.887*** (-9.272, -2.501)	2.323 (-1.965, 6.610)
COVID-19 prevalence (baseline is 1st Quartile [lowest]) ^d			
2nd Quartile	2.892*** (0.921, 4.863)	2.889*** (0.923, 4.854)	2.912*** (0.949, 4.875)
3rd Quartile	1.114 (-1.013, 3.241)	1.119 (-1.003, 3.241)	1.161 (-0.970, 3.292)
4th Quartile (highest)	0.828 (-1.949, 3.606)	0.834 (-1.923, 3.591)	0.859 (-1.904, 3.622)
Unemployment rate (baseline is 1st Quartile [lowest]) ^e			
2nd Quartile	1.630 (-0.748, 4.008)	1.633 (-0.747, 4.014)	1.676 (-0.712, 4.064)
3rd Quartile	3.035** (0.00632, 6.064)	3.038* (-0.000915, 6.077)	3.058** (0.0111, 6.105)
4th Quartile (highest)	2.336 (-0.592, 5.264)	2.306 (-0.631, 5.242)	2.349 (-0.601, 5.298)
Without broadband rate (baseline is 1st Quartile [lowest]) ^f			
2nd Quartile	-1.339 (-3.138, 0.461)	-1.347 (-3.141, 0.446)	-1.321 (-3.124, 0.482)
3rd Quartile	-2.546*** (-4.082, -1.011)	-2.548*** (-4.088, -1.008)	-2.535*** (-4.078, -0.991)
4th Quartile (highest)	-2.521** (-4.623, -0.419)	-2.495** (-4.604, -0.386)	-2.468** (-4.589, -0.346)
Percent not English only in household (baseline is 1st Quartile [lowest]) ^g			
2nd Quartile	0.271 (-1.706, 2.248)	0.307 (-1.672, 2.287)	0.285 (-1.698, 2.269)
3rd Quartile	1.041 (-1.426, 3.508)	1.064 (-1.410, 3.538)	1.006 (-1.462, 3.473)
4th Quartile (highest)	3.428 (-0.792, 7.648)	3.397 (-0.825, 7.619)	3.386 (-0.831, 7.603)
Year fixed effect (baseline is 2019)	-0.415 (-1.001, 0.170)	-0.466 (-1.043, 0.112)	-0.392 (-0.984, 0.199)
Interaction pre-post dummy and young children (0-12 years)	-57.91*** (-65.49, -50.32)		
Interaction pre-post dummy and teenagers (13-18 years)	-18.39**		

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	(-32.44, -4.328)		
Interaction pre–post dummy and younger adults (19–45 years)	-22.02***		
	(-30.19, -13.86)		
Interaction between pre–post dummy and county is rural		-40.60***	
		(-50.34, -30.86)	
Interaction between pre–post dummy and second poverty quartile			-16.23***
			(-28.04, -4.409)
Interaction between pre–post dummy and third poverty quartile			-24.86***
			(-38.56, -11.15)
Interaction between pre–post dummy and highest poverty quartile			-31.70***
			(-48.23, -15.17)
Constant	-8.853***	-9.673***	-7.291**
	(-14.38, -3.330)	(-15.52, -3.826)	(-13.11, -1.466)
Observations	3,075,367	3,075,367	3,075,367

Note: CIs are in parentheses. *** $p < 0.01$; ** $p < 0.05$; * $p < 0.1$.

^aPre period is defined as all of 2019 and weeks 1 through 10 in 2020.

^bU.S. county metropolitan classification according to the county where the patient resides

(https://www.cdc.gov/nchs/data_access/urban_rural.htm).

^cShare of U.S. county (percent) living below the federal poverty line in the county where the patient resides

(<https://www.census.gov/topics/income-poverty/poverty/data/tables/acs.html>).

^dIs the number of COVID-19 cases per 10,000 population in the county as of July 31, 2020 from USAFacts.

^eIs the county-level unemployment rate as reported by the Bureau of Labor Statistics for July.

^fIs the share of a county that does not have broadband Internet as reported by the Federal Communications Commission using the Mapping Broadband Health in America.

^gIs the share of a county that does not only speak English only in their household as reported in the 5-year American Community Survey.