

Supplemental Online Content

Trends and Disparities in Health Status and Health Care in the United States During COVID-19 Pandemic

Table S1. Details Regarding Study Covariates in the National Health Interview Survey Questions

Table S2. Distribution of the Missing Rates for Measures of Health Status and Health Care Access and Affordability, 2019–2022

Table S3. Adjusted Annual Prevalence of Poor/Fair Health Status by Race and Ethnicity and Income, 2019–2022

Table S4. Adjusted Annualized Rate of Change in the Prevalence of Measures of Health Status and Health Care Access, Utilization, and Affordability by Race, Ethnicity, and Income, 2019–2022

Table S5. Relative Racial and Ethnic Differences in Adjusted Annualized Rate of Change in the Prevalence of Measures of Health Status and Health Care Access, Utilization, and Affordability, by Income, 2019–2022

Table S6. Adjusted Annual Prevalence of Depression and/or Anxiety by Race and Ethnicity and Income, 2019–2022

Table S7. Adjusted Annual Prevalence of Functional Limitation by Race and Ethnicity and Income, 2019–2022

Table S8. Adjusted Annual Prevalence of Lack of Health Insurance by Race and Ethnicity and Income, 2019–2022

Table S9. Adjusted Annual Prevalence of Lack of a Usual Source of Care by Race and Ethnicity and Income, 2019–2022

Table S10. Adjusted Annual Prevalence of No Health Care Utilization in the Past Year by Race and Ethnicity and Income, 2019–2022

Table S11. Adjusted Annual Prevalence of Foregone or Delayed Medical Care Due to Cost by Race and Ethnicity and Income, 2019–2022

Table S1. Details Regarding Study Covariates in the National Health Interview Survey Questions

Variables	Question/Description	Response in Question	Harmonized in IPUMS
Race and Ethnicity	(1) What race or races is ^ALIASNAME?/What race or races ^dodoes ^youALIAS consider ^yourhimherself to be?	01 - White 02 - Black/African American 03 - American Indian 04 - Alaska Native 05 - Native Hawaiian 06 - Other Pacific Islander 07 - Asian 08 - Some other race 97 - Refused 99 - Don't Know	RACENEW
	(2) What is your Hispanic or Latino ancestry or origin, such as Mexican, Mexican American, ^CHICANOA, Central or South American, Puerto Rican, Cuban, Dominican (Republic), or Other Hispanic, ^LATINOA, or Spanish -- and if you have more than one, tell me all of them.	01 - Mexican, Mexican American, or Chicano(a) 02 - Central American 03 - South American 04 - Puerto Rican 05 - Cuban 06 - Domincican (Republic) 07 - Other Hispanic, Latino(a), or Spanish (specify) 97 - Refused 99 - Do not know	HISPETH
Income	Ratio of family income to poverty threshold	11 - under 0.50 12 - 0.50 to 0.74 13 - 0.75 to 0.99 20 - 1.00 to 1.99 21 - 1.00 to 1.24 22 - 1.25 to 1.49 23 - 1.50 to 1.74 24 - 1.75 to 1.99 31 - 2.00 to 2.49 32 - 2.50 to 2.99 33 - 3.00 to 3.49 34 - 3.50 to 3.99 35 - 4.00 to 4.49 36 - 4.50 to 4.99 37 - 5.00 and over	POVERTY
Self-rated	Would you say your health in general	1 - Excellent	HEALTH

health status	is excellent, very good, good, fair, or poor?	2 - Very Good 3 - Good 4 - Fair 5 - Poor 7 - Refused 9 - Don't Know	
Depression and/or anxiety	Have you EVER been told by a doctor or other health professional that you had ...Any type of depression? *Some common types of depression include major depression (or major depressive disorder), bipolar depression, dysthymia, post-partum depression, and seasonal affective disorder.	1 - Yes 2 - No 7 - Refused 9 - Don't Know	DEPRESSEV
	Have you EVER been told by a doctor or other health professional that you had ...Any type of anxiety disorder? *Some common types of anxiety disorders include generalized anxiety disorder, social anxiety disorder, panic disorder, post-traumatic stress disorder, obsessivecompulsive disorder, and phobias.	1 - Yes 2 - No 7 - Refused 9 - Don't Know	ANXIETYEV
Functional limitation	For sample adults, DISABWGSS is the <i>Washington Group Short Set Composite Disability Indicator</i> , indicating whether they have a disability. Here, disability is defined as being at a greater risk than the general population for experiencing restrictions in participation because of difficulties doing certain universal, basic actions. If sample adults reported "a lot of difficulty" in performing an activity or that they "cannot do [activity] at all" for any of the following six activities, they were classified on DISABWGSS as having a disability.	1. Amount of trouble with vision (VDIFAMOUNT) 2. Amount of trouble with hearing (HROBAMT) 3. Amount of difficulty walking or climbing steps (LAWALKCLIMDIF) 4. Amount of difficulty communicating in usual language (LACOMDIFEGO) 5. Amount of difficulty washing or dressing (LAWASHDRESDIF) 6. Amount of difficulty remembering or concentrating (LAMEMCONDIF)	DISABWGSS
Health	For sample adults, HINOTCOVE	1. HIPRIVATEE (Covered by	HINOTCOVE

insurance	indicates whether the person currently lacks health insurance coverage. HINOTCOVE is a recoded variable created by the National Center for Health Statistics (NCHS) and included in the original NHIS public use data. A code of "yes" in the following bulleted recoded variables means that the person is insured, and thus is not uninsured.	private health insurance: Recode) 2. HIMILITE (Covered by military health insurance: Recode) 3. HIMCAREE (Covered by Medicare: Recode) 4. HIMCAIDE (Covered by Medicaid: Recode) HISTATEE (Covered by other state-sponsored health plan: Recode) 5. HIOTHGOVE (Covered by other government program: Recode)	
Usual source of care	Is there a place that you USUALLY go to if you are sick and need health care?	1 - Yes 2 - There is NO place 3 - There is MORE THAN ONE place 7 - Refused 9 - Don't Know	USUALPL
	What kind of place ^ISITGOMSTOFT - a doctor's office or health center; an urgent care center, a clinic in a drug store or grocery store; a hospital emergency room; a VA Medical Center or VA outpatient clinic; or some other place? *A doctor's office or health center is a place where you see the same doctor or the same group of doctors every visit, where you usually need to make an appointment ahead of time, and where your medical records are on file. *Urgent care centers and clinics in a drug store or grocery store are places where you do not need to make an appointment ahead of time, and do not usually see the same health care provider at each visit.	1 - A doctor's office or health center 2 - Urgent care center or clinic in a drug store or grocery store 3 - Hospital emergency room 4 - A VA Medical Center or VA outpatient clinic 5 - Some other place 6 - Does not go to one place most often 7 - Refused 9 - Don't Know	TYPPLSICK
Health care	About how long has it been since	0 - Never	DVINT

utilization	you last saw a doctor or other health professional about your health? *Include doctors seen while a patient in a hospital. *Do not include dental care.	1 - Within the past year (anytime less than 12 months ago) 2 - Within the last 2 years (1 year but less than 2 years ago) 3 - Within the last 3 years (2 years but less than 3 years ago) 4 - Within the last 5 years (3 years but less than 5 years ago) 5 - Within the last 10 years (5 years but less than 10 years ago) 6 - 10 years ago or more 7 - Refused 9 - Don't Know	
Health care affordability	During the past 12 months, was there any time when you needed medical care, but DID NOT GET IT because of the cost?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	YBARCARE
	During the past 12 months, have you DELAYED getting medical care because of the cost?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	DELAYCOST
	During the past 12 months, was there any time when you needed prescription medication, but DID NOT GET IT because of the cost?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	YBARMEDS
Age	What is ^yourALIAS age? Enter number for age.	1 - 18-39 years 2 - 40-64 years 3 - ≥ 65 years	AGE
Sex	^AreIs ^youALIAS male or female? *What sex ^were you was ALIAS assigned at birth, on ^your their original birth certificate?	1 - Male 2 - Female 7 - Refused 9 - Don't Know	SEX
US region	REGION reports the region of the U.S. where the housing unit containing survey participants was located. The four regions--Northeast, North Central/Midwest, South, and West--correspond to the U.S. regions recognized by the Census Bureau.	1 - Northeast: New England Division (Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut) and Middle Atlantic Division (New York, New Jersey, and	REGION

		Pennsylvania) 2 - North Central/Midwest: East North Central Division (Michigan, Ohio, Indiana, Illinois, Wisconsin) and West North Central Division (Minnesota, Iowa, Missouri, North Dakota, South Dakota, Kansas, and Nebraska) 3 - South: South Atlantic Division (Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida), East South Central Division (Kentucky, Tennessee, Mississippi, and Alabama), and West South Central Division (Texas, Arkansas, Oklahoma, and Louisiana) 4 - West: Pacific Division (Washington, Alaska, Oregon, California, and Hawaii) and Mountain Division (Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, and Nevada).	
US citizenship	Were you born in the United States or a U.S. territory?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	CITIZEN
Education level	What is the HIGHEST level of school ^youALIAS ^havehas completed or the highest degree ^youALIAS ^havehas received? *Enter highest level of school completed.	00 - Never attended/kindergarten only 01 - Grade 1-11 02 - 12th grade, no diploma 03 - GED or equivalent 04 - High School Graduate 05 - Some college, no degree 06 - Associate degree: occupational, technical, or vocational program	EDUC

		07 - Associate degree: academic program 08 - Bachelor's degree (Example: BA, AB, BS, BBA) 09 - Master's degree (Example: MA, MS, MEng, MEd, MBA) 10 - Professional School degree (Example: MD, DDS, DVM, JD) 11 - Doctoral degree (Example: PhD, EdD) 97 - Refused 99 - Don't Know	
Marital status	The next questions are about marriage and cohabitation. Are you now married, living with a partner together as an unmarried couple, or neither? *If respondent answers both married and living with a different partner together as an unmarried couple, enter living with partner.	1 - Married 2 - Living with a partner together as an unmarried couple 3 - Neither 7 - Refused 9 - Don't Know	MARSTAT
Employment status	LAST WEEK, did you work for pay at a job or business? *If the respondent says ^heshetheywork, but not for pay, at a family-owned job or business, enter '1' for yes.	1 - Yes 2 - No 7 - Refused 9 - Don't Know	EMPSTAT
Current smoker	Have you smoked at least 100 cigarettes in your ENTIRE LIFE?	For sample adults 18 and over, this is a recoded variable indicating the respondent's current smoking status in categories of current smoker, every day current smoker, some day current smoker, current smoker--unknown frequency of smoking, and also indicates former smoker, never smoked and "has smoked, current smoking status unknown."	SMOKESTATUS2

Obese	"About how tall is [person] without shoes?" "About how much does [person] weigh without shoes?" For sample adults, BMI reports the Body Mass Index, a measure of body fat based on height and weight that applies to adult men and women.	BMICAT reports their Body Mass Index grouped into categories: underweight (BMI less than 18.5), normal weight (BMI of greater than or equal to 18.5 and less than 25), overweight (BMI of greater than or equal to 25 and less than 30), and obese (BMI equal to 30 or more).	BMICAT
Hypertension	Have you EVER been told by a doctor or other health professional that you had...Hypertension, also called high blood pressure? *Enter '1' if respondent is taking medication to control his/her high blood pressure.	1 - Yes 2 - No 7 - Refused 9 - Don't Know	HYPERTENEV
Diabetes	^NOTPREGDM a doctor or other health professional EVER told you that you had diabetes?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	DIABETICEV
Stroke	Have you EVER been told by a doctor or other health professional that you had...A stroke?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	STROKEV
Cancer	Have you EVER been told by a doctor or other health professional that you had...Cancer or a malignancy of any kind?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	CANCEREV
Asthma	Have you EVER been told by a doctor or other health professional that you had asthma?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	ASTHMAEV
Chronic obstructive pulmonary disease	Have you EVER been told by a doctor or other health professional that you had...Chronic Obstructive Pulmonary Disease, C.O.P.D., emphysema, or chronic bronchitis?	1 - Yes 2 - No 7 - Refused 9 - Don't Know	COPDEV
* IPUMS = Integrated Public Use Microdata Series Health Surveys			

Table S2. Distribution of the Missing Rates for Measures of Health Status and Health Care Access and Affordability, 2019–2022

Year	Self-Rated Health Status	Depression and/or anxiety	Functional Limitation	Insurance Status	Usual Source of Care	Seen/Talked to a Health Professional	Foregone or Delayed Care Due to Cost
2019	0.06%	0.11%	0.04%	0.32%	0.58%	0.72%	0.71%
2020	0.06%	0.07%	0.00%	0.26%	0.67%	0.78%	0.87%
2021	0.03%	0.07%	0.00%	0.38%	0.72%	0.88%	0.88%
2022	0.01%	0.09%	0.01%	0.35%	0.68%	0.82%	1.03%
Total	0.04%	0.09%	0.01%	0.33%	0.66%	0.80%	0.87%

Table S3. Adjusted Annual Prevalence of Poor/Fair Health Status by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	9.6 (7.8 to 11.8)	21.6 (19.7 to 23.6)	21.7 (19.6 to 23.9)	13.7 (13.0 to 14.3)
2020	8.7 (6.6 to 11.3)	20.1 (17.8 to 22.8)	19.1 (16.8 to 21.6)	12.2 (11.4 to 13.0)
2021	8.7 (6.9 to 10.8)	19.0 (17.3 to 20.7)	18.8 (17.0 to 20.7)	11.9 (11.3 to 12.5)
2022	10.0 (8.2 to 12.2)	19.7 (17.9 to 21.6)	19.6 (17.7 to 21.5)	12.9 (12.3 to 13.6)
Low income				
2019	14.5 (10.3 to 20.0)	30.9 (27.8 to 34.3)	29.7 (26.4 to 33.1)	28.7 (27.0 to 30.4)
2020	14.3 (9.5 to 21.1)	29.1 (24.9 to 33.8)	27.2 (23.6 to 31.2)	25.8 (23.6 to 28.2)
2021	12.4 (9.0 to 16.8)	28.6 (25.5 to 32.0)	25.8 (22.9 to 28.7)	24.4 (22.7 to 26.1)
2022	14.8 (10.7 to 20.2)	28.4 (25.1 to 32.0)	26.9 (24.1 to 30.0)	28.2 (26.4 to 30.1)
Middle/high income				
2019	7.9 (6.0 to 10.2)	15.1 (13.1 to 17.5)	14.1 (12.1 to 16.6)	9.5 (8.9 to 10.1)
2020	6.8 (4.7 to 9.8)	13.9 (11.6 to 16.7)	12.2 (9.9 to 14.8)	8.8 (8.2 to 9.5)
2021	7.5 (5.5 to 10.1)	12.4 (10.6 to 14.4)	13.1 (11.2 to 15.3)	8.9 (8.3 to 9.4)
2022	8.5 (6.7 to 10.8)	14.1 (12.1 to 16.4)	13.9 (12.0 to 16.1)	9.1 (8.5 to 9.7)

Table S4. Adjusted Annualized Rate of Change in the Prevalence of Measures of Health Status and Health Care Access, Utilization, and Affordability by Race, Ethnicity, and Income, 2019–2022

	Asian individuals		Black individuals		Latino/Hispanic individuals		White individuals	
	Percentage points (95% CI)	<i>P</i> value	Percentage points (95% CI)	<i>P</i> value	Percentage points (95% CI)	<i>P</i> value	Percentage points (95% CI)	<i>P</i> value
Poor or fair health status								
Overall	+0.10 (−1.49 to +1.69)	0.81	−0.70 (−2.38 to +0.98)	0.22	−0.64 (−2.85 to +1.56)	0.34	−0.29 (−1.96 to +1.38)	0.53
Low income	−0.15 (−3.06 to +2.76)	0.84	−0.83 (−1.85 to +0.18)	0.07	−0.96 (−3.50 to +1.58)	0.25	−0.44 (−5.13 to +4.24)	0.72
Middle and high income	+0.26 (−1.10 to +1.61)	0.50	−0.46 (−2.94 to +2.01)	0.51	+0.02 (−1.93 to +1.97)	0.97	−0.13 (−0.72 to +0.46)	0.72
Depression and/or anxiety								
Overall	+1.43 (+1.06 to +1.80)	0.004	+0.74 (+0.39 to +1.10)	0.01	+0.81 (−1.03 to +2.66)	0.20	+1.68 (+1.60 to +1.77)	<0.001
Low income	+1.51 (+0.69 to +2.33)	0.004	+0.06 (−1.29 to +1.41)	0.86	+0.01 (−4.44 to +4.46)	0.99	+1.73 (+0.13 to +3.32)	0.04
Middle and high income	+1.34 (+0.99 to +1.69)	0.004	+1.36 (+1.11 to +1.60)	0.002	+1.59 (+0.17 to +3.01)	0.04	+1.78 (+1.20 to +2.36)	0.006
Functional limitation								
Overall	+0.25 (−1.38 to +1.89)	0.57	−0.05 (−0.24 to +0.14)	0.41	−0.15 (−1.08 to +0.77)	0.56	+0.03 (−0.68 to +0.74)	0.87
Low income	+0.26 (−1.30 to +1.83)	0.55	−0.25 (−1.74 to +1.23)	0.54	−0.72 (−1.96 to +0.52)	0.13	+0.03 (−1.49 to +1.43)	0.94

Middle and high income	+0.37 (-0.92 to +1.67)	0.36		+0.20 (-0.75 to +1.14)	0.47		+0.51 (-0.41 to +1.42)	0.14		+0.12 (-0.31 to +0.54)	0.36
Lack of health insurance at the time of interview											
Overall	-0.18 (-1.55 to +1.18)	0.62		-0.17 (-0.38 to +0.04)	0.07		-0.73 (-1.78 to +0.32)	0.10		-0.55 (-0.95 to -0.15)	0.03
Low income	+0.59 (+0.09 to +1.10)	0.01		-0.43 (-1.63 to +0.77)	0.27		-0.63 (-2.51 to +1.25)	0.29		-1.49 (-2.21 to -0.77)	0.01
Middle and high income	-0.36 (-2.03 to +1.30)	0.45		+0.16 (-0.60 to +0.92)	0.45		-0.39 (-1.43 to +0.64)	0.24		-0.27 (-0.57 to +0.04)	0.06
No usual source of care at the time of interview											
Overall	+0.53 (-1.38 to +2.44)	0.36		-0.07 (-0.54 to +0.39)	0.56		+0.13 (-1.96 to +2.22)	0.82		+0.05 (-0.43 to +0.53)	0.70
Low income	+0.29 (-3.86 to +4.45)	0.79		+0.47 (-0.06 to +1.01)	0.06		+0.23 (-2.23 to +2.70)	0.72		-0.29 (-2.72 to +2.15)	0.66
Middle and high income	+0.67 (-2.25 to +3.58)	0.43		-0.29 (-0.96 to +0.38)	0.21		+0.29 (-1.38 to +1.96)	0.72		+0.16 (-0.21 to +0.53)	0.20
Not seen or talked to a health professional in the past 12 mo											
Overall	+1.76 (-5.14 to +8.66)	0.39		+0.62 (-0.19 to +1.43)	0.08		+0.52 (-1.57 to +2.60)	0.40		+0.38 (-1.30 to +2.06)	0.43
Low income	+1.88 (-5.59 to +9.36)	0.39		+0.57 (-1.91 to +3.05)	0.43		+0.74 (-3.01 to +4.50)	0.49		-0.30 (-1.62 to +1.02)	0.43
Middle and high income	+1.76 (-5.21 to +8.72)	0.39		+0.73 (-0.14 to +1.59)	0.07		+0.49 (-0.47 to +1.46)	0.16		+0.56 (-1.46 to +2.58)	0.36
Foregone or delayed medical care due to cost in the past 12 mo											
Overall	-0.10 (-2.19 to +2.00)	0.86		-0.87 (-2.97 to +1.22)	0.22		-0.79 (-5.15 to +3.57)	0.52		+0.62 (-1.44 to +0.21)	0.09

Low income	-0.10 (-2.19 to +2.00)	0.86		+0.49 (-5.52 to +6.50)	0.76		-1.42 (-7.02 to +4.18)	0.39		-1.84 (-3.67 to -0.01)	0.049
Middle and high income	-0.25 (-1.27 to +0.77)	0.40		-0.65 (-1.32 to +0.03)	0.05		-1.42 (-7.02 to +4.18)	0.39		+0.02 (-3.06 to +3.10)	0.98

Table S5. Relative Racial and Ethnic Differences in Adjusted Annualized Rate of Change in the Prevalence of Measures of Health Status and Health Care Access, Utilization, and Affordability, by Income, 2019–2022

	Difference between Asian and White individuals			Difference between Black and White individuals			Difference between Latino/Hispanic and White individuals	
	Percentage points (95% CI)	<i>P</i> value		Percentage points (95% CI)	<i>P</i> value		Percentage points (95% CI)	<i>P</i> value
Poor or fair health status								
Overall	+0.38 (+0.30 to +0.47)	0.003		−0.41 (−0.82 to −0.01)	0.048		−0.40 (−1.02 to +0.21)	0.11
Low income	+0.27 (−2.46 to +2.99)	0.72		−0.42 (−4.30 to +3.46)	0.69		−0.70 (−2.99 to +1.60)	0.32
Middle and high income	+0.38 (−0.40 to +1.16)	0.17		−0.35 (−2.39 to +3.46)	1.70		+0.13 (−1.24 to +1.50)	0.72
Depression and/or anxiety								
Overall	−0.25 (−0.53 to +0.02)	0.06		−0.94 (−1.24 to −0.64)	0.006		−0.87 (−2.78 to +1.03)	0.19
Low income	−0.18 (−1.22 to +0.87)	0.55		−1.68 (−4.47 to +1.12)	0.12		−1.73 (−5.78 to +2.33)	0.21
Middle and high income	−0.46 (−0.74 to +0.17)	0.02		−0.42 (−1.23 to +0.39)	0.15		−0.19 (−1.18 to +0.79)	0.49
Functional limitation								
Overall	+0.25 (−1.60 to +2.10)	0.06		−0.07 (−0.88 to +0.73)	0.73		−0.21 (−0.50 to +0.07)	0.09
Low income	+0.20 (−0.86 to +1.26)	0.51		−0.25 (−2.98 to +2.47)	0.73		−0.81 (−1.32 to −0.31)	0.02
Middle and high income	+0.29 (−1.28 to +1.86)	0.51		+0.07 (+0.57 to +0.71)	0.67		+0.39 (−0.16 to +0.93)	0.09
Lack of health insurance at the time of interview								
Overall	+0.37 (−0.71 to +1.46)	0.28		+0.37 (+0.03 to +0.72)	0.04		−0.18 (−1.04 to +0.68)	0.46
Low income	+2.10 (+1.44 to +2.76)	0.005		+1.07 (−0.49 to +2.63)	0.10		+0.88 (−1.48 to +3.24)	0.25
Middle and high income	−0.08 (−1.39 to +1.23)	0.82		+0.43 (−0.59 to +1.45)	0.21		−0.13 (−0.86 to +0.61)	0.54
No usual source of care at the time of interview								

Overall	+0.46 (−1.18 to +2.09)	0.35		−0.13 (−0.90 to +0.63)	0.53		+0.07 (−1.55 to +1.70)	0.86
Low income	+0.51 (−5.72 to +6.75)	0.76		−0.74 (−2.03 to +3.50)	0.37		+0.51 (−0.75 to +1.78)	0.22
Middle and high income	+0.46 (−2.04 to +2.96)	0.51		−0.45 (−0.74 to −0.16)	0.02		+0.11 (−1.73 to +1.96)	0.82
Not seen or talked to a health professional in the past 12 mo								
Overall	+1.40 (−4.06 to +6.85)	0.39		−0.27 (−1.74 to +2.27)	0.63		−0.15 (−4.28 to +3.98)	0.89
Low income	+2.13 (−5.44 to +9.71)	0.35		+0.86 (−0.30 to +2.03)	0.09		+1.05 (−4.01 to +6.11)	0.47
Middle and high income	+1.23 (−3.82 to +6.27)	0.41		+0.21 (−2.54 to +2.96)	0.78		−0.03 (−1.62 to +1.56)	0.95
Foregone or delayed medical care due to cost in the past 12 mo								
Overall	+0.49 (−1.47 to +2.46)	0.39		−0.30 (−1.67 to +1.08)	0.45		+0.19 (−2.29 to +2.66)	0.78
Low income	+2.41 (−2.92 to +7.74)	0.19		+0.66 (−1.48 to +2.80)	0.32		+0.44 (−3.99 to +4.87)	0.72
Middle and high income	−0.05 (−1.10 to +1.00)	0.85		−0.44 (−1.27 to +0.39)	0.15		+0.25 (−2.98 to +3.47)	0.77

Table S6. Adjusted Annual Prevalence of Depression and/or Anxiety by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	6.0 (4.7 to 7.7)	15.2 (13.7 to 16.8)	16.2 (14.8 to 17.8)	22.3 (21.6 to 23.1)
2020	7.8 (6.0 to 10.0)	16.0 (13.9 to 18.3)	15.0 (13.2 to 17.0)	24.1 (23.1 to 25.1)
2021	9.1 (7.6 to 10.8)	17.0 (15.2 to 18.8)	17.1 (15.8 to 18.5)	25.8 (24.9 to 26.6)
2022	10.3 (8.5 to 12.3)	17.3 (15.7 to 19.1)	18.5 (17.0 to 20.1)	27.4 (26.6 to 28.2)
Low income				
2019	7.6 (5.2 to 10.8)	21.1 (18.5 to 24.0)	20.6 (18.3 to 23.1)	32.6 (30.8 to 34.4)
2020	9.9 (6.0 to 15.9)	21.5 (17.9 to 25.6)	16.8 (14.1 to 20.0)	34.9 (32.6 to 37.3)
2021	10.4 (7.4 to 14.6)	22.3 (19.5 to 25.5)	17.7 (15.5 to 20.0)	35.1 (33.4 to 36.9)
2022	12.3 (8.6 to 17.3)	21.0 (18.3 to 24.0)	20.7 (18.4 to 23.2)	38.2 (36.4 to 40.1)
Middle/high income				
2019	5.1 (3.7 to 7.0)	10.9 (9.2 to 12.8)	12.1 (10.5 to 14.0)	19.4 (18.7 to 20.2)
2020	6.5 (4.8 to 8.8)	12.1 (10.0 to 14.6)	13.3 (11.1 to 15.7)	21.4 (20.4 to 22.4)
2021	8.0 (6.5 to 9.8)	13.4 (11.4 to 15.7)	16.2 (14.4 to 18.3)	23.5 (22.6 to 24.4)
2022	9.0 (7.3 to 11.2)	15.0 (13.0 to 17.1)	16.5 (14.6 to 18.5)	24.6 (23.8 to 25.5)

Table S7. Adjusted Annual Prevalence of Functional Limitation by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	3.2 (2.1 to 4.8)	9.5 (8.3 to 10.9)	9.9 (8.5 to 11.5)	8.8 (8.3 to 9.3)
2020	5.1 (3.4 to 7.6)	9.7 (8.1 to 11.5)	8.9 (7.5 to 10.5)	8.3 (7.8 to 8.8)
2021	3.4 (2.5 to 4.7)	9.4 (8.2 to 10.9)	9.0 (8.0 to 10.2)	8.4 (8.0 to 9.0)
2022	4.5 (3.2 to 6.2)	9.4 (8.1 to 10.8)	9.3 (8.1 to 10.6)	8.9 (8.4 to 9.5)
Low income				
2019	7.3 (3.9 to 13.1)	14.9 (12.7 to 17.4)	14.8 (12.4 to 17.6)	18.7 (17.3 to 20.1)
2020	8.2 (4.8 to 13.7)	16.2 (13.0 to 20.0)	13.4 (10.9 to 16.4)	18.3 (16.6 to 20.2)
2021	7.1 (4.3 to 11.4)	15.2 (13.0 to 17.8)	12.4 (10.4 to 14.6)	17.6 (16.2 to 19.1)
2022	8.5 (5.5 to 12.9)	14.1 (11.7 to 16.8)	12.6 (10.8 to 14.8)	19.0 (17.4 to 20.8)
Middle/high income				
2019	1.7 (1.1 to 2.7)	5.6 (4.4 to 7.0)	5.4 (4.2 to 6.9)	6.0 (5.6 to 6.5)
2020	4.2 (2.3 to 7.4)	5.0 (3.8 to 6.6)	5.0 (3.7 to 6.8)	5.8 (5.3 to 6.3)
2021	2.2 (1.4 to 3.4)	5.3 (4.1 to 6.9)	6.3 (5.1 to 7.7)	6.2 (5.7 to 6.6)
2022	3.2 (2.0 to 5.1)	6.2 (4.9 to 7.7)	6.7 (5.4 to 8.3)	6.3 (5.8 to 6.9)

Table S8. Adjusted Annual Prevalence of Lack of Health Insurance by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	5.2 (3.8 to 7.0)	7.0 (5.9 to 8.3)	21.1 (19.2 to 23.0)	5.7 (5.3 to 6.2)
2020	5.9 (4.5 to 7.7)	7.0 (5.8 to 8.5)	21.3 (18.8 to 23.9)	5.1 (4.6 to 5.7)
2021	4.4 (3.3 to 5.9)	6.6 (5.7 to 7.8)	19.3 (17.5 to 21.2)	4.3 (4.0 to 4.7)
2022	5.1 (3.8 to 6.7)	6.5 (5.6 to 7.6)	19.1 (17.4 to 21.0)	4.1 (3.8 to 4.5)
Low income				
2019	8.0 (5.2 to 12.1)	9.7 (7.8 to 11.9)	29.9 (26.8 to 33.0)	11.4 (10.2 to 12.7)
2020	8.8 (5.2 to 14.5)	10.6 (8.2 to 13.7)	31.4 (27.4 to 35.5)	9.4 (8.0 to 11.0)
2021	8.8 (5.7 to 13.3)	8.8 (7.1 to 10.9)	29.1 (25.9 to 32.3)	7.9 (6.8 to 9.0)
2022	9.9 (6.9 to 13.8)	8.7 (7.0 to 10.7)	28.3 (25.3 to 31.6)	6.9 (5.9 to 8.0)
Middle/high income				
2019	4.1 (2.7 to 6.2)	4.9 (3.8 to 6.3)	12.8 (11.0 to 14.9)	4.1 (3.7 to 4.5)
2020	5.1 (3.7 to 6.9)	4.3 (3.3 to 5.7)	12.9 (10.8 to 15.3)	4.0 (3.5 to 4.5)
2021	3.2 (2.2 to 4.8)	5.1 (4.1 to 6.5)	11.5 (9.8 to 13.3)	3.4 (3.1 to 3.8)
2022	3.7 (2.5 to 5.3)	5.2 (4.2 to 6.4)	11.9 (10.3 to 13.7)	3.4 (3.0 to 3.7)

Table S9. Adjusted Annual Prevalence of Lack of a Usual Source of Care by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	7.8 (6.2 to 9.7)	9.4 (8.2 to 10.9)	12.3 (11.0 to 13.7)	7.5 (7.0 to 8.0)
2020	6.7 (5.2 to 8.8)	9.3 (7.8 to 11.1)	10.8 (9.4 to 12.5)	7.1 (6.5 to 7.7)
2021	9.1 (7.6 to 10.9)	9.7 (8.3 to 11.2)	11.2 (10.0 to 12.5)	7.4 (6.9 to 7.9)
2022	8.8 (7.2 to 10.6)	9.1 (7.9 to 10.5)	12.8 (11.5 to 14.3)	7.6 (7.1 to 8.2)
Low income				
2019	10.3 (7.0 to 14.9)	12.0 (10.0 to 14.5)	15.7 (13.8 to 17.8)	12.7 (11.5 to 14.0)
2020	14.4 (9.0 to 22.0)	12.9 (10.2 to 16.2)	13.8 (11.4 to 16.4)	11.4 (9.8 to 13.2)
2021	14.3 (10.1 to 19.7)	13.4 (11.1 to 16.2)	14.7 (12.8 to 16.8)	10.4 (9.3 to 11.6)
2022	11.1 (7.8 to 15.5)	13.4 (11.1 to 16.0)	16.5 (14.4 to 18.7)	12.3 (11.1 to 13.6)
Middle/high income				
2019	6.8 (5.1 to 9.1)	7.4 (6.0 to 9.1)	9.1 (7.4 to 11.0)	6.0 (5.6 to 6.5)
2020	4.9 (3.6 to 6.6)	6.7 (5.2 to 8.5)	8.3 (6.8 to 10.2)	5.9 (5.4 to 6.6)
2021	7.5 (5.9 to 9.3)	7.1 (5.8 to 8.8)	8.4 (7.2 to 9.8)	6.5 (6.0 to 7.0)
2022	7.8 (6.2 to 9.8)	6.3 (5.1 to 7.8)	9.9 (8.5 to 11.6)	6.4 (5.9 to 7.0)

**Table S10. Adjusted Annual Prevalence of No Health Care Utilization in the Past
Year by Race and Ethnicity and Income, 2019–2022**

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	11.1 (9.5 to 13.0)	9.1 (7.9 to 10.5)	16.1 (14.7 to 17.6)	10.9 (10.4 to 11.4)
2020	15.8 (13.1 to 18.9)	10.4 (8.8 to 12.2)	15.1 (13.4 to 16.9)	12.4 (11.7 to 13.2)
2021	20.8 (18.4 to 23.3)	10.1 (8.8 to 11.6)	17.9 (16.4 to 19.6)	12.9 (12.4 to 13.6)
2022	14.8 (12.9 to 17.1)	11.2 (9.9 to 12.7)	17.0 (15.6 to 18.6)	11.8 (11.2 to 12.4)
Low income				
2019	12.0 (8.9 to 15.8)	10.0 (8.1 to 12.4)	18.8 (16.5 to 21.3)	14.5 (13.2 to 15.9)
2020	17.6 (12.2 to 24.6)	13.2 (10.3 to 16.8)	16.3 (13.6 to 19.4)	15.7 (13.9 to 17.8)
2021	22.4 (17.7 to 28.0)	10.8 (8.8 to 13.4)	21.4 (19.0 to 24.1)	13.9 (12.6 to 15.3)
2022	15.8 (11.8 to 20.8)	12.3 (10.0 to 14.9)	20.0 (17.8 to 22.3)	14.0 (12.6 to 15.4)
Middle/high income				
2019	10.7 (8.9 to 13.0)	8.4 (6.9 to 10.2)	13.4 (11.7 to 15.3)	9.9 (9.4 to 10.4)
2020	15.4 (12.3 to 19.0)	8.3 (6.6 to 10.4)	13.8 (11.9 to 15.8)	11.5 (10.8 to 12.3)
2021	20.5 (17.9 to 23.3)	9.5 (7.8 to 11.6)	15.1 (13.4 to 16.9)	12.7 (12.0 to 13.3)
2022	14.7 (12.5 to 17.2)	10.5 (8.8 to 12.4)	14.7 (12.9 to 16.6)	11.2 (10.5 to 11.8)

Table S11. Adjusted Annual Prevalence of Foregone or Delayed Medical Care Due to Cost by Race and Ethnicity and Income, 2019–2022

Year	Asian, % (95% CI)	Black, % (95% CI)	Latino/Hispanic, % (95% CI)	White, % (95% CI)
Overall				
2019	6.7 (5.1 to 8.9)	14.9 (13.3 to 16.8)	16.9 (15.5 to 18.5)	11.4 (10.8 to 12.0)
2020	6.5 (4.7 to 8.7)	12.2 (10.6 to 13.9)	15.9 (14.1 to 17.8)	9.9 (9.3 to 10.6)
2021	5.2 (4.1 to 6.6)	11.6 (10.2 to 13.1)	12.5 (11.3 to 13.9)	9.8 (9.2 to 10.4)
2022	6.7 (5.4 to 8.3)	11.9 (10.5 to 13.4)	15.6 (14.1 to 17.1)	9.4 (8.9 to 10.0)
Low income				
2019	8.8 (5.7 to 13.6)	19.4 (16.7 to 22.6)	22.7 (20.3 to 25.3)	21.2 (19.6 to 22.8)
2020	12.1 (7.3 to 19.5)	14.7 (11.9 to 17.9)	21.5 (18.2 to 25.2)	17.9 (16.1 to 19.8)
2021	7.0 (4.4 to 11.0)	14.5 (12.2 to 17.4)	16.2 (14.1 to 18.5)	16.2 (14.8 to 17.7)
2022	12.2 (8.6 to 17.1)	15.5 (13.1 to 18.3)	19.8 (17.4 to 22.3)	15.7 (14.2 to 17.2)
Middle/high income				
2019	5.9 (4.1 to 8.4)	11.2 (9.4 to 13.4)	11.5 (9.8 to 13.5)	8.6 (8.1 to 9.2)
2020	4.8 (3.2 to 7.1)	10.2 (8.4 to 12.2)	10.9 (8.8 to 13.4)	8.0 (7.3 to 8.7)
2021	4.6 (3.5 to 6.1)	9.4 (7.9 to 11.1)	9.5 (8.0 to 11.1)	8.2 (7.7 to 8.8)
2022	4.9 (3.7 to 6.5)	9.3 (7.7 to 11.0)	12.2 (10.5 to 14.2)	7.8 (7.3 to 8.4)